



Department of Defense Integrated Data Dictionary (IDD)

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Revision History

Version	Date	Document Status	Comments
Draft 0.0	2-12-15	Rough Draft	Contains Type 1, Type 2 and Type 11
Draft 0.1	3-9-15	Draft	Added separate code and Type 10 and 20 and moved to a separate Appendix A for Code lists
Draft 0.2	5-4-14	Working Draft	Continued to add types – Still performing clean up and adding types.
Draft 0.3	5-21-15	Working Draft	Completed addition of all types to be included in this version (Types: 1, 2, 9, 10, 11, 13, 14, 15, 17, 18, 20, 21, 98, 99). Performed cursory formatting revision.
Draft 0.4	6-5-15	Working Draft	Refined formatting and performed error fixes.
Draft 0.9	8-10-15	Draft Release	Review and revision of all Record Types and incorporation of comments from the enterprise.
Draft 1.0	9-21-15	Final Draft	Incorporation of comments from Army and Joint Staffing
Amd 1	5-26-16	Amendment 1	Formatting revision and full xml incorporation.

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1.0 Overview

The Department of Defense Integrated Data Dictionary (IDD) is one of the Biometrics Data Products published by the Defense Forensics and Biometrics Agency (DFBA). The IDD defines the data standards that are to be used when data is exchanged across DoD Biometric Systems, and is the authoritative source for DoD biometrics data elements. As Part of DFBA's mission to lead, consolidate, and coordinate forensics and biometrics activities, it requires definition and promotion of transmission data standards for us by the DoD Biometrics Community.

The IDD is one of the key components of the Electronic Biometrics Transmission Specification (EBTS) Information Exchange Package (IEP), and serves the following functions: identifies the high-value data exchanged across DoD biometric systems (both current and future), establishes authoritative definitions for that data, and documents standards for data in order to ensure accurate and efficient data flow.

New features to this version of the IDD include:

- New field definition structures facilitate the construction and exchange of data in either extensible mark-up language (XML) or binary format.
- Separation of field code lists into an Appendix A to provide adequate information to clarify encoding.

2.0 Intended Audience

The intended audience for the Integrated Data Dictionary spans across the DoD Biometrics Community, other United States Government (USG) agencies, and Foreign Partners with a need to understand DoD EBTS transactions. This includes, but is not limited to, those responsible for biometric system design and development.

3.0 IDD Organization and Structure

3.1 Field Status States

As Standards and data usages evolve over time, the IDD must reflect the transition and retirement of certain data elements. The IDD does this by tracking the lifecycle of the data elements through the states as shown in Figure 1 below. The “NEW” prefix will be added to the Status to indicate that it is an element that was added as a result of the EBTS v4.0 release (i.e. “NEW – Active”).

State	Description
Active	Currently viable and fully usable data element.
Deprecated	Element is still usable in current implementations, but it should not be used going forward. It will gradually be phased out with a new element(s) that incorporates the functionality of the deprecated element. The IDD will clearly mark if an element is deprecated. The IDD will also provide the superseding element(s) and any qualifying condition.
Sunset	Used for alerting the user community that an element may be retired in the future. IDD will provide indicator to clearly mark if an element is in the sunset state and the reason why.
Retired	Used to alert the user community that the data element shall not be used for current and future applications. The IDD will clearly mark if an element is retired.
Emerging	An element that can be considered for future capability. It has not yet been approved by FBSWG for use and can be subject to change.

Figure 1: Data Element Statuses

Figure 2 illustrates how an IDD data element transitions from one state to another. For example, a DoD data element which is Emerging may become Active after approval of the Forensics and Biometrics Standards Working Group and adoption by the biometric systems in use.

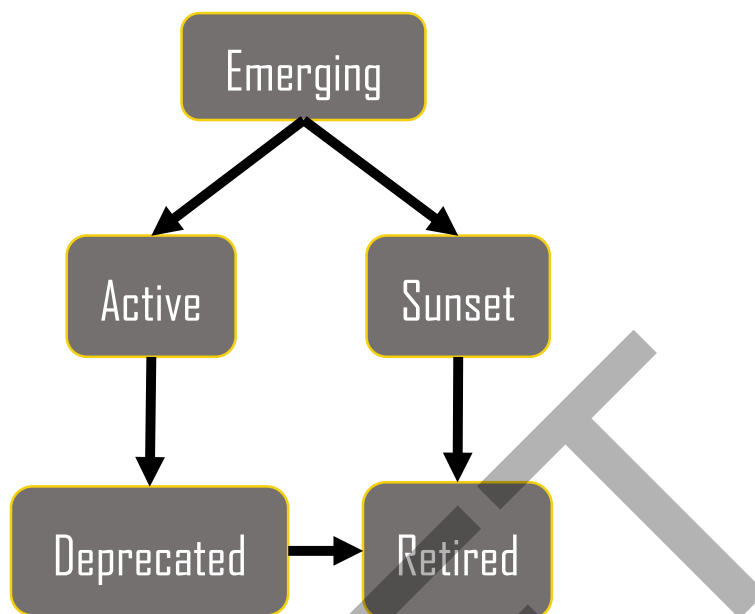


Figure 2: IDD Data Element Transition Path

3.2 IDD Subject Areas

The IDD is divided into sections based on the subject area in order to provide the context in which the data elements are used. The IDD contains data elements categorized within the subject areas that are listed in the table below.

Record	Subject Area	Description
Type-1	Transaction Information Record	Contains useful/required information items regarding the use or purpose of the transaction.
Type-2	User-Defined Descriptive Text Record	Contains contextual/situational/processing information (i.e. identification, biographic, and descriptive, information) regarding the subject, the encounter, response, sample and the transaction itself.
Type-4	High-Resolution Grayscale Fingerprint Image (Deprecated)	The use of this logical record for the binary Fingerprint image has been deprecated by Type-14 Variable-Resolution Fingerprint Image Record.

Figure 3: ANSI/NIST-ITL Record Types

Record	Subject Area	Description
Type-7	Latent Image Binary Latent Image (Deprecated)	The use of this logical record for the binary Latent Fingerprint image has been deprecated by Type-13 Variable-Resolution Latent Image Record.
Type-9	Minutiae Data Record (Common)	Includes fields 9.001 – 9.004. These common data elements shall be included for any minutiae features within a Type-9 record. Also includes fields 9.901- 9.904 for the universal latent workstation annotations and workstation identifiers.
Type-9	Minutiae Data Record (Standard Features – Legacy)	Includes fields 9.005 through 9.012. These fields are marked as legacy in ANSI/NIST ITL 1-2011.
Type-9	Minutiae Data Record (IAFIS Features)	Includes fields 9.013 – 9.030. Used for exchanging geometric and topological minutiae templates and information encoded from a finger or palm based on the FBI IAFIS standard.
Type-9	Minutiae Data Record (INCITS M1-378 Features)	Includes fields 9.126 – 9.150. Used for exchanging geometric and topological minutiae templates and information encoded from a finger or palm based on the ANSI/INCITS standard.
Type-9	Extended Feature Set (EFS)	Includes fields 9.300 – 9.399. The EFS defines additional types of fingerprint features, which allows Latent Print Examiners to document latent prints in much greater detail. These features are standardized to enhance interoperability between the various federal, state, and local agencies.
Type-10	Facial, Other Body Part and SMT Image Record	Used for exchanging facial, other body parts and image data from scars, marks, and tattoos (SMT) with textual information.
Type-11	Forensic and Investigatory Voice	Focused upon the analysis of voice signals for forensic and investigatory purposes. This type is new in EBTS 4.0.
Type-13	Variable Resolution Latent Image Record	Used for exchanging latent fingerprint or palmprint image data with textual information.
Type-14	Variable Resolution Fingerprint Image	Used for exchanging variable-resolution fingerprint image data, segmented flat fingerprint data, or major case print data with textual information.
Type-15	Variable-Resolution Palm Print Image	Used for exchanging variable-resolution palm print image data with textual information.
Type-16	Interim Support for Iris Image (Deprecated)	Used as an interim support for Iris Image for DoD EBTS 1.2 with ANSI/NIST ITL 1-2000. The use of this logical record for Iris Image has been deprecated by Type-17 Iris Image.
Type-17	Iris Image	Used for exchanging iris image data.
Type-18	DNA Record	Used for exchange of DNA data.

Figure 3: ANSI/NIST-ITL Record Types (Cont.)

Record	Subject Area	Description
Type-20	Source Representation Record	The source representation(s) from which other Record Types were derived. Examples are an image of multiple latent prints, of which one or more is of interest. Those would be segmented and prepared for sending in a Type-13 record.
Type-21	Associated Context Record	Contains an associated context record. This information does NOT contain information used to derive biometric information contained in other records. Record Type-20 serves that function. Record Type-21 may be used to convey contextual information, such as an image of the area where latent fingerprints were captured.
Type-98	Information Assurance Record	Contain security information that assures the authenticity and/or integrity of the transaction.
Type-99	CBEFF Biometric Data Record	Common Biometric Exchange Formats Framework (CBEFF). Used for exchanging biometric data not supported by other ANSI/NIST ITL logical record types.

Figure 3: ANSI/NIST-ITL Record Types (Cont.)

3.3 IDD Data Element Characteristics

The following figure lists the data element characteristics and describes the types of information represented by those characteristics.

Name	Description
Field ID	The Field ID number assigned by the transmission specifications (DoD EBTS or FBI EBTS) or Application Profile or ANSI/NIST ITL standard.
Element Name	Name of the data element containing the Category and Subcategory names. The element name is intended to be human readable.
Mnemonic	The Mnemonic is an abbreviated Element name which is assigned by the transmission specifications (DoD EBTS or FBI EBTS) or Application Profile or ANSI/NIST ITL standard.
Optional	Consists of Mandatory (M), Optional (O), and Dependent (D) codes which indicate the normal state of the field or component. An arrow indicator may be present to indicate hierarchical dependency.
Status	Indicates the current lifecycle status of the field (i.e. emerging, retired, active, etc.)

Figure 4: IDD Data Element Characteristics

Name	Description		
Description	Textual description or definition for the dictionary element.		
Field Min/Max	Defines the number of characters allowed in the data element. For example, for some date fields the format will be YYYYMMDD, so therefore both the Field Min and Field Max will be equal to 8.		
Occur Min/Max	The occurrence minimum and maximum indicate the number of times a data element is allowed to occur within the transaction.		
Char Types	A	Alphabetic	26 English letters (both upper and lower case) within the 7-bit ASCII character set.
	AN	Alphanumeric	Alphabetic and numeric 1 2 3 4 5 6 7 8 9 0 within the 7-bit ASCII character set.
	ANS	Alphanumeric and special characters	Alphanumeric character set plus those special characters which are specifically stated in the description of the data, within the 7-bit ASCII character set.
	AS	Alphanumeric and special characters	Alphabetic character set plus those special characters which are specifically stated in the description of the data, within the 7-bit ASCII character set.
	B	Binary	See the ANSI/NIST-ITL for rules regarding binary encoding for traditional encoding (See Annex B: Traditional encoding) or Base64 for XML (See Annex C: NIEM- conformant encoding rules).
	Base64	Base-64	Encoded (exclusively)
	H	Hexadecimal	Representation: 0 1 2 3 4 5 6 7 8 9 A B C D E F
	N	Numeric	1 2 3 4 5 6 7 8 9 0
	NS	Numeric	Numeric character set plus those special characters which are specifically stated in the description of the data, within the 7-bit ASCII character set.
	U	Unicode	Characters available in UTF-8: Latin and extended Latin characters like ü, Ñ, ç, Þ, ß, ð, and/or special characters like £, €, ™, +, * and ‡, and/or non-Latin characters like □, ○, , Å, Æ, Ж, ь, 旬, 亡, 亡, and の.
Special Chars	Allowable characters that are neither alphanumeric nor binary, such as punctuation characters. For example: Period, Comma, Minus, Plus, Hyphen. 7-bit ASCII characters shall be used for special characters when Character Type is either AS, ANS or NS. UTF-8 character encoding shall be used for special characters when Character type is U.		

Figure 4: IDD Data Element Characteristics (Cont.)

Name	Description
Format	The Format field defines the data format for the element (e.g. YYYYMMDD for date).
Value Constraints	Identifies the value constraints that shall be applied to the content within the element (e.g. specific codes from the look up codes list, integer value of certain range, etc.).
Code List	Name of the code list located in Appendix A of this document containing the allowable codes for the data element.
Source	The authoritative source the dictionary element is completely or partially extracted or derived from.
XML Levels	Contains the default namespace prefix and XML field name. The level indicates the elements hierarchical appearance in the XML document.
Cardinality	Indicates the Minimum and maximum numbers of allowed occurrences for the referenced XML element. (1...1)
DoD EBTS vX	Indicator that the dictionary element was referenced by the DoD EBTS in v1.2, 2.0, 3.0, or 4.0.

Figure 4: IDD Data Element Characteristics (Cont.)

3.4 New IDD Conventions

There are several conventions used in the construction of the document that were added to make the document more technically viable with the addition of the Extensible Markup Language (XML).

Repeating Subfields Designator

In the ANSI (American National Standards Institute) NIST (National Institute of Standards and Technology) 1-2011: Update 2013 field guidance table a new field was introduced to designate repeating subfields of information. The repeating subfield ID and Mnemonic will be indicated with and _0 designator.

Hierarchical Arrows

New in the ANSI NIST 1-2011: Update 2013 field tables are hierarchical dependency arrow indicators located in the Optional field. The DoD EBTS IDD page construct has also chosen to include this new morphological field construct.

Traditional vs XML Encoding Designation

Where the content or structure of a field or information item would differ between Traditional (Binary) and XML encodings, they are differentiated by a “T =” or “X =” preceding the information.

XML Levels

Fields to contain XML level 1 through 4 have been added to indicate the names of the hierarchy of XML components and their cardinality.

4.0 Authoritative Sources

The “Source” characteristic within the dictionary element indicates the authoritative source the element is either completely or partially extracted or derived from. The following is a list of primary authoritative sources used to develop the Integrated Data Dictionary:

- **[ITL 1-2011]:** ANSI/NIST-ITL 1-2011: Update 2013, “American National Standard for Information Systems – Data Format for the Interchange of Fingerprint, Facial, & Other Biometric Information” (NIST Special Publication 500-290 Rev 1 2013).
- **[W3C XML Schema Part 1]:** XML Schema Part 1: Structures Second Edition, W3C Recommendation 28 October 2004.
- **[W3C XML Schema Part 1]:** XML Schema Part 2: Datatypes Second Edition, W3C Recommendation 28 October 2004.
- **[NIEM Conform]:** National Information Exchange Model Conformance Specification Version 3.0, NIEM Technical Architecture Committee (NTAC), August 15, 2014.

- **[NIEM NDR 3.0]:** *NIEM Naming and Design Rules*, Version 3.0, NIEM Technical Architecture Committee (NTAC), 31 July 2014.
- **[NIEM-EM]:** National Information Exchange Model — Model Package Description Specification, NIEM Technical Architecture Committee (NTAC), Version 3.0.1, April 27, 2015.
- **[NGI 10.0]:** Electronic Biometric Transmission Specification (EBTS) NGI-DOC-01078-10.0, Federal Bureau of Investigation, Criminal Justice Information Services Division, July 2, 2013.
- **[NGI TOU 10.0.3]:** Electronic Biometric Transmission Specification (EBTS) Technical and Operational Update (TOU) 10.0.3, FBI CJIS/NGI EBTS TOU 10.0.3, Federal Bureau of Investigation, Criminal Justice Information Services Division, September 30, 2014.
- **[GENC 2.0]:** NGA Standardization Document Geopolitical Entities, Names, and Codes (GENC) Standard 2.0, National Center For Geospatial Intelligence Standards, March 31, 2014.
- **[ISO 639-2]:** Codes for the Representation of Names of Languages Part 2: Alpha-3 Code (ISO 639-2 Language Codes), Technical Committees ISO/TC 37, Terminology and other language and content resources, Subcommittee SC 2, Layout of vocabularies and ISO/TC 46, Information and documentation, Subcommittee SC 4, Computer applications in information and documentation, April 8, 2011.
- **[XML 1]:** Extensible Markup Language (XML) 1.0, Second Edition. World Wide Web Consortium (W3C), 6 October 2000.
- **[NIST Schema 2013] ANSI/NIST-ITL 1-2011 Update: 2013 XML Schema, June 28, 2015.** http://biometrics.nist.gov/cs_links/standard/ansi_2015/schema-MRT/ANSI-NIST-ITL-2013_FINAL.zip .

5.0 Date and Time Fields

Date fields must be valid dates and in accordance with the requirements stated below. In general, the format for date fields are follows:

- A date is shown as an 8-digit numeric field of the format YYYYMMDD (YYYY-MM-DD for XML encoding), where:
 - YYYY (Year) must be 0000 to 9999
 - MM (Month) must be 01 to 12
 - DD (Day) must be 01 to the limit defined by the month and year (e.g., DD may be 29 for MM = 02 in leap years).

Gregorian calendar is default if not specified. For example 19921201 represents December 1, 1992.

Date-Time fields must be valid dates and time fields in coordinated universal time format (UTC), also known as “Zulu Time.” UTC is reflected as YYYYMMDDHHMMSSZ in Traditional Encoding and YYYY-MM-DDTHH:MM:SSZ in XML Encoding. The “Z” at the end of the date-time string indicates the time zone, which is always set to UTC time. The format for the date is the same as above. The format for time is as follows:

- HH (Hour) must be 00 to 23
- MM (Minute) must be 00 to 59
- SS (Second) must be 00 to 59

For example 19921201103015Z represents December 1, 1992 at 10:30:15AM.

Since dates and time find a variety of uses in EBTS transactions, each use may have specific format restrictions or special edits. For specific format restrictions or special edits, see the individual date field entries for detail.

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7.0 IDD Element Definitions by Type

DRAFT

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-1: Transaction Information

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1.001

Record Header

Mnemonic	LEN	Conditionality	M
		Status	Active
Description	The record header appears as the first field (xx.001) in each Record Type. It contains information particular to the encoding format chosen, in order to enable proper reading of the record. In Traditional encoding, this field contains the record length in bytes (including all information separators). In NIEM-conformant XML encoding, this field contains the RecordCategoryCode, which is the numeric representation of the Record Type.		
Field Min	Encoding Specific	Occur Min	1
Field Max	Encoding Specific	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	Depending Upon Encoding
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1)		
XML Level 1		Cardinality	
XML Level 2	biom:RecordCategoryCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.002

Version Number

Mnemonic	VER	Conditionality	M
		Status	Active
Description	This mandatory four-character ASCII value shall be used to specify the current version number of the standard implemented by the software or system creating the transaction. The format of this field shall consist of four numeric characters. The first two characters shall specify the major version number. The last two characters shall be used to specify the minor revision number. The 2011 version of the standard without any of the record types or fields introduced for the 2013 Update has the entry "0500". The 2013 Update uses "0501". In XML, nist-itl:TransactionMajorVersionValue is 5, and nist-itl:TransactionMinorVersionValue is 1.		
Field Min	T = 4 ; X = 3	Occur Min	1
Field Max	4	Occur Max	1
Char Types	N	Special Chars	None
Format	####	Constraints	VER = 0500 or 0501
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1)		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionMajorVersionValue or biom_2:TransactionMinorVersionValue	Cardinality	XML
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-1: Transaction Information

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1.003

Transaction Content

Mnemonic	CNT			Conditionality	M		
				Status	Active		
Description	This mandatory field shall list and identify each of the records in the transaction by record type and its IDC value. It also specifies the order in which the remaining records shall appear in the file. It shall consist of two or more subfields. The first subfield shall relate to this Type-1 record. Each of the remaining subfields corresponds to a single Type-2 through Type-99 record contained in the transaction.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-1)						
XML Level 1	biom:Transaction				Cardinality		
XML Level 2	biom:TransactionContentSummary				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.003_0

Transaction Content

Subfield: Single set of information items

Mnemonic	CNT_0			Conditionality	M		
				Status	New-Active		
Description	This field indicates repeating subsets of the Transaction Content field.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format				Constraints	n/a		
Code List							
Source	ANSI/NIST 2011: Update 2013						
XML Level 1	biom:Transaction				Cardinality		
XML Level 2	biom:TransactionContentSummary				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-1: Transaction Information

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Transaction Content

First Record Category Code

Mnemonic	FRC	Conditionality	M
		Status	Active
Description	The first information item (record category code / REC) within the first subfield shall be "1". This indicates that the first record in the transaction is a Type-1 record consisting of header information.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	FRC = 1 integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1)		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionContentSummary	Cardinality	1..1
XML Level 3	biom:ContentFirstRecordCategoryCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.003_1b

Transaction Content

Content Record Count

Mnemonic	CRC	Conditionality	M
		Status	Active
Description	The second information item of the first subfield of Field 1.003 File Content shall be the sum of the Type-2 through Type-99 logical records contained in this file. This number is also equal to the count of the remaining subfields of Field 1.003. The maximum value for CRC is 999.		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	CRC = count of record types 2 through 99; min = 1; max = 999; positive integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1)		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionContentSummary	Cardinality	1..1
XML Level 3	biom:ContentRecordQuantity	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-1: Transaction Information

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1.003_2

Transaction Content

Content Record Summary

Mnemonic	REC				Conditionality	M		
					Status	New-Active		
Description	This record reflects a subsets of the Content Record Summary.							
Field Min	n/a				Occur Min	1		
Field Max	n/a				Occur Max	*		
Char Types	n/a				Special Chars	n/a		
Format					Constraints	n/a		
Code List								
Source	ANSI/NIST 2011: Update 2013							
XML Level 1	biom:Transaction					Cardinality		
XML Level 2	biom:TransactionContentSummary					Cardinality	1..1	
XML Level 3	biom:ContentRecordSummary					Cardinality	1..*	
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

1.003_2a

Transaction Content

Subfield: Single set of information items

Mnemonic	REC_0			Conditionality	M		
				Status	New-Active		
Description	This field indicates repeating subsets of the Transaction Content field.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST 2011: Update 2013						
XML Level 1	biom:Transaction				Cardinality		
XML Level 2	biom:TransactionContentSummary				Cardinality	1..1	
XML Level 3	biom:ContentRecordSummary				Cardinality	1..*	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-1: Transaction Information

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1.003_2a

Transaction Content

Record Category Code

Mnemonic	REC	Conditionality	M
		Status	Active
Description	The first information item of the second and remaining subfields of Field 1.003 File Content shall be the record identifier character(s) chosen from the look up codes below that identifies the record type approved by DoD EBTS.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	REC = 2 or 4; or 7 ≤ REC ≤ 22; or REC = or 99; integer
Code List	DOD EBTS APPROVED LOGICAL RECORD NUMBER CODES		
Source	ANSI/NIST ITL 1-2011 (Type-1), BIMA- STB-STD-11-001		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionContentSummary	Cardinality	1..1
XML Level 3	biom:ContentRecordSummary	Cardinality	1..*
XML Level 4	biom:RecordCategoryCode	Cardinality	1..1
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.003_2b

Transaction Content

Information Designation Character

Mnemonic	IDC	Conditionality	M
		Status	Active
Description	The second information item (information designation character / IDC) shall be an integer equal to or greater than zero and less than or equal to 99.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 ≤ IDC ≤ 99
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1)		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionContentSummary	Cardinality	1..1
XML Level 3	biom:ContentRecordSummary	Cardinality	1..*
XML Level 4	biom:ImageReferenceIdentification/nc:IdentificationType	Cardinality	1..1
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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1.004

Type of Transaction

Mnemonic	TOT		Conditionality	M	
			Status	Active	
Description	This mandatory field shall contain an identifier, which designates the type of transaction and subsequent processing that this file should be given. The TOT shall be in accordance with definitions provided by the Domain and/or Application Profile.				
Field Min	Encoding Specific		Occur Min	1	
Field Max	Encoding Specific		Occur Max	1	
Char Types	A		Special Chars	None, TransactionCategoryCodeType	
Format	n/a		Constraints	See the specific Domain and/or Application Profile referenced	
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-1)				
XML Level 1	biom:Transaction			Cardinality	
XML Level 2	biom:TransactionCategory			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

1.005

Date

Mnemonic	DAT		Conditionality	M	
			Status	Active	
Description	This mandatory field shall contain the local date when the transaction was submitted. Reference Annex B (traditional encoding) and Annex C (xml encoding) from ANSI/NIST ITL 1-2011 for more detail.				
Field Min	Encoding Specific		Occur Min	1	
Field Max	Encoding Specific		Occur Max	1	
Char Types	N		Special Chars	None	
Format	YYYYMMDD - for Traditional Encoding or NEIM Conformant Encoding		Constraints	Dependent upon encoding. Default is YYYYMMDD.	
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-1)				
XML Level 1	biom:Transaction			Cardinality	
XML Level 2	biom:TransactionDate/nc:date			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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1.006

Priority

Mnemonic	PRY			Conditionality	0		
				Status	Active		
Description	This optional field shall contain a single information character to designate the urgency with which a response is desired. See the specific Application Profile for any defaults that may apply.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	DoD ABIS: $1 \leq \text{PRY} \leq 4$. Default: $1 \leq \text{PRY} \leq 9$ positive integer		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-1), BIMA- STB-STD-11-001						
XML Level 1	biom:Transaction				Cardinality		
XML Level 2	biom:TransactionPriorityValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.007

Destination Agency Identifier

Mnemonic	DAI			Conditionality	M		
				Status	Active		
Description	This mandatory field shall contain the identifier of the administration or organization designated to receive the transmission.						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	ANS			Special Chars	Any character with type A, N or S.		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-1)						
XML Level 1	biom:Transaction				Cardinality		
XML Level 2	biom:TransactionDestinationOrganization				Cardinality	1..1	
XML Level 3	nc:OrganizationIdentification/nc:IdentificationType				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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1.008

Originating Agency Identifier

Mnemonic	ORI	Conditionality	M
		Status	Active
Description	The origination field shall contain the ORI identifying the agency or organization submitting the transaction.		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	ANS	Special Chars	Any character with type A, N or S.
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1), BIMA- STB-STD-11-001		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionOriginatingOrganization	Cardinality	1..1
XML Level 3	nc:OrganizationIdentification/nc:IdentificationType	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.009

Transaction Control Number

Mnemonic	TCN	Conditionality	M
		Status	Active
Description	This mandatory field shall contain the Transaction Control Number (TCN) as assigned by the originating agency. The TCN is a unique identifier generated by the system that submits the transaction and carried through on the response for tracing purposes. When a transaction is sent to a system that receives and generates responses, the Transaction Control Reference (TCR) in the response(s) will be the TCN used in the submission. A TCN is mandatory for a submission, and a TCR is mandatory for a response. The DoD EBTS requires a 40-byte TCN that contains the following 5 pieces of information, each separated by a single hyphen: 1: The Originating Agency Identifier (ORI) (9 bytes) 2: Greenwich Mean (a.k.a. Zulu or UTC) date/time stamp (14 bytes) 3: A code for the software used at the point of collection/transmission (4 bytes) 4: An indicator of the software version used at the point of collection/transmission (4 bytes) 5: A random or sequential alphanumeric string (5 bytes). For any transaction that requires a response, the respondent shall refer to this number in communicating with the originating agency. Greenwich Mean (a.k.a. Zulu or UTC) date/time stamp is formatted as follows: YYYYMMDDhhmmss		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	ANS	Special Chars	Hyphen. Default: Any character with type A, N or S.
Format		Constraints	See Format
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1), BIMA- STB-STD-11-001		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionControlIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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1.01

Transaction Control Reference

Mnemonic	TCR			Conditionality	O		
				Status	Active		
Description	This optional field shall be used for responses that refer to the TCN of a previous transaction involving an inquiry or other action that required a response.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	ANS			Special Chars	Hyphen. Default: Any character with type A, N or S.		
Format	See 1.009 TCN			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-1)						
XML Level 1	biom:Transaction				Cardinality		
XML Level 2	biom:TransactionControlReferenceIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.011

Native Scanning Resolution

Mnemonic	NSR		Conditionality	M	
			Status	Active	
Description	This mandatory field shall be set to “00.00” if there are no Type-4 records in the transaction. When there are Type-4 records present, this field is used to specify the native scanning resolution of the friction ridge image capture device. This field shall specify the resolution in pixels per millimeter. The resolution shall be expressed as two numeric characters followed by a decimal point and two more numeric characters. If Record Type-4 is used and images are scanned at greater than the class of 500 ppi, they shall be subsampled, scaled down, or interpolated down to produce a class resolution of 500 ppi for transmission. Users shall utilize Record Type-14 if transmitting a fingerprint image at greater than the limits of the 500 ppi class. Images with scanning resolution greater than or equal to the 1000 ppi class should not be transmitted using Record Type-4 unless being transmitted at 500 ppi class to a system incapable of receiving Type-14 records at 1000 ppi class or greater.				
Field Min	T = 5; X = 4		Occur Min	1	
Field Max	5		Occur Max	1	
Char Types	NS		Special Chars	Period	
Format	##.##		Constraints	NSR = 00.00 if no Type-4 records in transaction; otherwise xx.xx	
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-1)				
XML Level 1	biom:Transaction			Cardinality	
XML Level 2	biom:TransactionImageResolutionDetails			Cardinality	1..1
XML Level 3	biom:NativeScanningResolutionValue			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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1.012

Nominal Resolution

Mnemonic	NTR		Conditionality	M	
			Status	Active	
Description	This mandatory field shall be set to “00.00” if there are no Type-4 records in the transaction. When there are Type-4 records present, this field specifies the nominal resolution for the image(s) being exchanged. This field shall specify the resolution in pixels per millimeter. The resolution shall be within the range 19.30 ppmm (490 ppi) to 20.08 ppmm (510 ppi). For example, a sensor that scans natively at 508 ppi would show both NSR and NTR as 20 ppmm (508 ppi). These images should not be sampled down to exactly 500 ppi. This field may be used to apply to Type-7 records if specified by the domain or application profile.				
Field Min	T = 5; X = 4		Occur Min	1	
Field Max	5		Occur Max	1	
Char Types	NS		Special Chars	Period	
Format	##.##		Constraints	NTR = 00.00 if no Type-4 records in transaction; otherwise xx.xx	
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-1)				
XML Level 1	biom:Transaction			Cardinality	
XML Level 2	biom:TransactionImageResolutionDetails			Cardinality	1..1
XML Level 3	biom:NominalTransmittingResolutionValue			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

1.013

Domain Name

Mnemonic	DOM		Conditionality	0	
			Status	Active	
Description	This optional field identifies the domain name for the user-defined Type-2 record implementation. The domain name may only appear once within a transaction. It shall consist of one or two information items. The domain shall be registered with the BIMA. It consists of a Domain Name Implementation and a Domain Name Implementation Version. The BIMA is the domain registrar for domain names used in DoD EBTS transactions. For transactions that use a different implementation, the Domain Name shall be populated according to the Application Profile that transaction belongs to.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-1), BIMA- STB-STD-11-001				
XML Level 1	biom:Transaction			Cardinality	
XML Level 2	biom:TransactionDomain			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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1.013_1

Domain Name

Domain Name Implementation

Mnemonic	DNM	Conditionality	M↑
		Status	Active
Description	The mandatory first information item (domain name / DNM) will uniquely identify the agency, entity, or implementation used for formatting the fields in the Type-2 record. The default value for the field shall be the North American Domain implementation (NORAM). For transactions that use an implementation other than DoD EBTS, the Domain Name shall be populated according to the Application Profile that that transaction belongs to.		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	ANS	Special Chars	Any character with type A, N or S.
Format	n/a	Constraints	For DoD EBTS, DNM = DoD EBTS
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1), BIMA- STB-STD-11-001		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionDomain	Cardinality	0..1
XML Level 3	biom:TransactionDomainName	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.013_2

Domain Name

Domain Name Implementation Version

Mnemonic	DVN	Conditionality	O↑
		Status	Active
Description	An optional second information item shall contain the unique version of the particular implementation. Ex: "EBTS 4.0"		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	ANS	Special Chars	Any character with type A, N or S.
Format	n/a	Constraints	For DoD EBTS 4.0, DVN = 4.0
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1), BIMA- STB-STD-11-001		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionDomain	Cardinality	0..1
XML Level 3	biom:DomainVersionNumberIdentification/ nc:IdentificationID	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.014

Greenwich Mean Time

Mnemonic	GMT	Conditionality	O
		Status	Active
Description	This optional field provides a mechanism for expressing the date and time in terms of universal Greenwich Mean Time (GMT) units. This time is independent of the actual time zone where the time and date is recorded. The data is YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. If used, the GMT field contains the universal date that will be in addition to the local date contained in Field 1.005 (DAT).		
Field Min	Dependent upon encoding	Occur Min	0
Field Max	Dependent upon encoding	Occur Max	1
Char Types	AN	Special Chars	None
Format	YYYYMMDDhhmmssZ - for Traditional Encoding	Constraints	Dependent upon encoding
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1)		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionUTCDate/nc:DateTime	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.015

Application Profile Specifications

Character Encoding

Mnemonic	DCS	Conditionality	O
		Status	Active
Description	This optional field specifies the character encoding that may appear within this transaction for data with the character type listed as "U" or 'user-defined' in "Char Types". The default character encoding for the Traditional Encoding is 7-bit ASCII. For XML, it is UTF-8.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a, TransactionCharacterSetType
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1)		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionCharacterSetDirectory	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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1.015_0

Application Profile Specifications

Subfield: A single set of information items

Mnemonic	DCS_0				Conditionality	M↑		
					Status	New-Active		
Description	Subfield of Character Encoding contains a single set of information items with this version.							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	1		
Char Types	n/a				Special Chars	n/a		
Format	n/a				Constraints	n/a		
Code List								
Source	ANSI/NIST ITL 2011: UPDATE 2013							
XML Level 1	biom:Transaction					Cardinality		
XML Level 2	biom:TransactionCharacterSetDirectory					Cardinality	0..1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

1.015_1

Character Encoding

Character Encoding Set Index

Mnemonic	CSI			Conditionality	M↑		
				Status	Active		
Description	This first information item of Field 1.015 DCS is the identifier for the character set index number that references an associated character set throughout the transaction file. Index Code '1' for 8 bit Latin has been deprecated and should not be used. DoD EBTS 3.0 default character encoding is 7-bit ASCII; UTF-8 is also allowed.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 ≤ CSI ≤ 4 or 128 ≤ CSI ≤ 999 non-negative integer		
Code List	TRANSACTION CHARACTER SET INDEX CODES						
Source	ANSI/NIST ITL 1-2011 (Type-1), BIMA- STB-STD-11-001						
XML Level 1	biom:Transaction				Cardinality		
XML Level 2	biom:TransactionCharacterSetDirectory				Cardinality	0..1	
XML Level 3	biom:CharacterSetIndexCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.015_2Character Encoding*Character Encoding Set Name*

Mnemonic	CSN			Conditionality	M↑		
				Status	Active		
Description	The second information item of Field 1.015 DCS shall be the common name for the character set associated with that index number. Character Set Name '8-bit Latin' has been deprecated and should not be used. DoD EBTS 4.0 default character encoding is 7-bit ASCII; UTF-8 is also allowed.						
Field Min	1			Occur Min	1		
Field Max	16			Occur Max	1		
Char Types	ANS			Special Chars	Any		
Format	n/a			Constraints	CSN = ASCII or UTF-8		
Code List	TRANSACTION CHARACTER SET INDEX CODES						
Source	ANSI/NIST ITL 1-2011 (Type-1), BIMA- STB-STD-11-001						
XML Level 1	biom:Transaction				Cardinality		
XML Level 2	biom:TransactionCharacterSetDirectory				Cardinality	0..1	
XML Level 3	biom:CharacterSetCommonNameCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.015_3Character Encoding*Character Encoding Set Version*

Mnemonic	CSV		Conditionality	O	
			Status	Active	
Description	The optional third information item of Field 1.015 DCS is the specific version of the character set used. In the case of the use of UTF-8, this information item can be used to hold the specific version of the character set used with UTF-8, so that the display terminal can be switched to the correct font family.				
Field Min	1		Occur Min	1	
Field Max	16		Occur Max	1	
Char Types	ANS		Special Chars	Any character with type A, N or S.	
Format	n/a		Constraints	None	
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-1)				
XML Level 1	biom:Transaction			Cardinality	
XML Level 2	biom:TransactionCharacterSetDirectory			Cardinality	0..1
XML Level 3	biom:CharacterSetVersionIdentification/nc:IdentificationID			Cardinality	0..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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1.016

Application Profile Specifications

Mnemonic	APS			Conditionality	0		
				Status	Active		
Description	DoD EBTS Type-1 records are defined in ITL 1-2011. Every application profile shall define values in the Application Profile Specifications field (1.016). The BIMA Baseline Application Profile shall be the default value in field 1.016 if no other value is provided. The Baseline Application Profile specifies the common transactions occurring between DoD collection devices that have direct or indirect transaction ties to the DoD authoritative biometric repository. The Baseline Application Profile enables the user to conform to DoD EBTS v4.0.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-1), BIMA- STB-STD-11-001						
XML Level 1	biom:Transaction				Cardinality		
XML Level 2	biom:TransactionApplicationProfile				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.016_0

Application Profile Specifications

Subfields: Repeating sets of information items

Mnemonic	APS_0				Conditionality	M↑		
					Status	New-Active		
Description	Mandatory Subfields of Application Profile Specifications: Repeating sets of information items 1 to 100							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	99		
Char Types	n/a				Special Chars	n/a		
Format	n/a				Constraints	n/a		
Code List								
Source	ANSI/NIST 2011: Update 2013							
XML Level 1	biom:Transaction					Cardinality		
XML Level 2	biom:TransactionApplicationProfile					Cardinality	0..99	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

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1.016_1

Application Profile Specifications

Application Profile Specifications

Mnemonic	APO			Conditionality	M↑		
				Status	Active		
Description	The first information item of the Application Profile Specifications field. It uniquely identifies the agency or entity responsible for the specification.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	99		
Char Types	ANS			Special Chars	Any character with type A, N or S.		
Format	n/a			Constraints	For DoD EBTS, APO = DFBA		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-1), BIMA- STB-STD-11-001						
XML Level 1	biom:Transaction				Cardinality		
XML Level 2	biom:TransactionApplicationProfile				Cardinality	0..99	
XML Level 3	biom:ApplicationProfileOrganizationName				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.016_2

Application Profile Specifications

Application Profile Name

Mnemonic	APN			Conditionality	M↑		
				Status	Active		
Description	The second information item of the Application Profile Specifications field. It shall contain the name of the specification.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	99		
Char Types	ANS			Special Chars	Any character with type A, N or S.		
Format	n/a			Constraints	For Baseline Application Profile, APN = Baseline Application Profile		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-1), BIMA- STB-STD-11-001						
XML Level 1	biom:Transaction				Cardinality		
XML Level 2	biom:TransactionApplicationProfile				Cardinality	0..99	
XML Level 3	biom:ApplicationProfileName				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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1.016_3

Application Profile Specifications

Application Profile Version Number

Mnemonic	APV	Conditionality	M↑
		Status	Active
Description	The third information item of the Application Profile Specifications field. It shall contain the specific version of the specification.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	99
Char Types	ANS	Special Chars	Any character with type A, N or S.
Format	n/a	Constraints	For Baseline Application Profile, APV = 1.0
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1), BIMA- STB-STD-11-001		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionApplicationProfile	Cardinality	0..99
XML Level 3	biom1:ApplicationProfileVersionIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

1.017

Agency Names

Mnemonic	ANM	Conditionality	0
		Status	Active
Description	This optional field is comprised of two optional information items. The first is the destination agency name / DAN. This corresponds to the agency listed in Field 1.007 Destination agency identifier / DAI. The second optional information item is the originating agency name / OAN. This corresponds to the agency listed in Field 1.008. Originating agency identifier / ORI. Both information items are alphanumeric and can have any special characters in the names.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1)		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionOriginatingOrganization	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-1: Transaction Information

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1.017_1

Agency Names

Destination Agency Name

Mnemonic	DAN	Conditionality	O↑
		Status	Active
Description	The name of the administration or organization designated to receive the transmission.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	ANS	Special Chars	Any character with type A, N or S, nc:TextType
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1)		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionDestinationOrganization	Cardinality	1..1
XML Level 3	nc:OrganizationName	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

1.017_2

Agency Names

Originating Agency Name

Mnemonic	OAN	Conditionality	O↑
		Status	Active
Description	The name of the administration or organization that originated the transmission.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	ANS	Special Chars	Any character with type A, N or S, nc:TextType
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-1)		
XML Level 1	biom:Transaction	Cardinality	
XML Level 2	biom:TransactionOriginatingOrganization	Cardinality	1..1
XML Level 3	nc:OrganizationName	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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1.018

Geographic Name Set

Mnemonic	GNS			Conditionality	O		
				Status	New-Active		
Description	This optional field is used if the transaction uses GENC in lieu of ISO 3166-1 as a code set for country code specifications. ISO 3166-1 is the default country code set used for the transaction when this field is not contained in Record Type-1. DoD EBTS 4.0 default is GENC.						
Field Min	3			Occur Min	0		
Field Max	4			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	n/a			Constraints	GNS = GENC		
Code List	GEOGRAPHIC NAME SET CODES						
Source	ANSI/NIST ITL 1-2011 (Type-1): Update 2013						
XML Level 1	biom:Transaction				Cardinality		
XML Level 2	dod-ebts:TransactionGeographicNameSetCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.001

Record Header

Mnemonic	LEN			Conditionality	M		
				Status	Active		
Description	The record header appears as the first field (xx.001) in each Record Type. It contains information particular to the encoding format chosen, in order to enable proper reading of the record. In Traditional encoding, this field contains the record length in bytes (including all information separators). In NIEM-conformant XML encoding, this field contains the RecordCategoryCode, which is the numeric representation of the Record Type.						
Field Min	T = 2; X = 1			Occur Min	1		
Field Max	T = 8; X = 2			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	positive integer; X = <RecordCategoryCode>		
Code List							
Source	ANSI/NIST ITL 1-2011 Type-2						
XML Level 1	nist-itl:RecordCategoryCode				Cardinality	1...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.002

Information Designation Character

Mnemonic	IDC	Conditionality	M
		Status	Active
Description	Each of the records present in a transaction, with the exception of the Type-1 record, shall include a field (xx.002) containing the information designation character / IDC. The value of the IDC shall be a sequentially assigned positive integer starting from zero and incremented by one up to a maximum of 99. IDC references are stated in Type-1 Field 1.003 Transaction content (CNT) and shall be used to relate information items in the CNT field of the Type-1 record to the other records in the transaction. Two or more records may share a single IDC solely to identify and link together records that pertain to different representations of the same biometric trait.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	0 <= IDC <= 99; integer
Code List			
Source	ANSI/NIST ITL 1-2011 Type-2		
XML Level 1	nist-itl:ImageReferenceIdentification/nc:IdentificationID	Cardinality	1...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.003

FBI File Number

Mnemonic	FFN	Conditionality	n/a
		Status	Sunset
Description	This is a 10-byte numeric representing the FBI Investigative File Number. This is not the FBI Number specified by the mnemonic "FBI." Since it is used for FBI LFPS record keeping purposes, it is imperative that the user transmit this number if known.		
Field Min	10	Occur Min	0
Field Max	10	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi: ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:FBIFileNumber/nc:IdentificationID	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

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Type-2: User-Defined Descriptive Text

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2.005

Retention Code

Mnemonic	RET			Conditionality	0		
				Status	Active		
Description	This field indicates whether the information submitted as a part of a transaction is to be retained as a permanent part of the FBI's Master File. Submit a 'Y' for yes or an 'N' for no.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	YES NO CODE						
Source	NGI-DOC-01078-10.0						
XML Level 1	ansi-nist:RecordRetentionIndicator				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.006

Attention Indicator

Mnemonic	ATN			Conditionality	0		
				Status	Active		
Description	This alphanumeric-special field shall contain a designation of the individual to whose attention a response is to be directed. Periods shall not be used e.g., Det. J. Q. Public shall be entered as DET J Q PUBLIC. The value of ATN returned to the submitter is the value submitted.						
Field Min	3			Occur Min	0		
Field Max	30			Occur Max	1		
Char Types	ANS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	dod-ebts:AttentionIndicator				Cardinality	0...1	
XML Level 2	nc:TextType				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.007

Send Copy to

Mnemonic	SCO			Conditionality	0		
				Status	Active		
Description	The purpose of this 9-to-19-character alphanumeric-special ANS field is to indicate that additional electronic responses need to be forwarded to agencies other than the contributor by the State Identification Bureau. The first nine characters shall be alphanumeric and shall contain the NCIC-assigned Originating Agency Identifier ORI for an agency who is to receive a copy of the response. At the option of the transmitting agency, the ORI may be expanded to a size of 19 characters, with 10 characters of alphanumeric-special (ANS) data appended to the end to assist in proper routing of the responses. listed in the "SEND COPY TO" block						
Field Min	9			Occur Min	0		
Field Max	19			Occur Max	9		
Char Types	ANS			Special Chars			
Format	n/a			Constraints	n/a		
Code List	SEARCH RESULT CODE						
Source	NGI-DOC-01078-10.0						
XML Level 1	dod-ebts:RecordForwardOrganizations				Cardinality	0...1	
XML Level 2	nc:OrganizationIdentification/nc:IdentificationID				Cardinality	0...9	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.009

Originating Agency Case Number

Mnemonic	OCA		Conditionality	0	
			Status	Active	
Description	This field contains the one-to-twenty character Originating Agency Case Identifier OCA assigned by the originating agency. This alphanumeric-special ANS field may contain any printable 7-bit ASCII character with the exception of the period. The OCA must not begin with a blank.				
Field Min	1		Occur Min	0	
Field Max	20		Occur Max	1	
Char Types	ANS		Special Chars		
Format	n/a		Constraints	n/a	
Code List					
Source	NGI-DOC-01078-10.0				
XML Level 1	fbi-ebts:RecordTransactionActivity			Cardinality	0...1
XML Level 2	fbi-ebts:RecordTransactionActivity			Cardinality	0...1
XML Level 3	nc:CaseTrackingID			Cardinality	0...1
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.01

Contributor Case Identifier Number

Mnemonic	CIN	Conditionality	0
		Status	Active
Description	This grouped free-text field is a 48-byte maximum alphanumeric-special assigned by the contributor to uniquely identify a latent case. It consists of: a literal subfield Contributor Case Prefix CIN_PRE of up to 24 characters e.g., "Incident #, "Laboratory Number," "Investigation No."		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	5
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi: ebts:RecordTransactionActivity	Cardinality	0..11
XML Level 2	fbi-ebts:ContributorCaseIdentificationNumber	Cardinality	1..5
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.010_0

Contributor Case Identifier Number*Subfields: Repeating sets of information items*

Mnemonic	CIN_0	Conditionality	M↑
		Status	New-Active
Description	Repeating subfield for Contributor Case Identifier Number		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	5
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	EBTS 4.0		
XML Level 1	fbi: ebts:RecordTransactionActivity	Cardinality	0..11
XML Level 2	fbi-ebts:ContributorCaseIdentificationNumber	Cardinality	1..5
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.010_1

Contributor Case Identifier Number

Contributor Case Identifier Prefix

Mnemonic	CIN_PRE	Conditionality	M↑
		Status	Active
Description	Literal subfield Contributor Case Prefix (CIN_PRE) of up to 24 characters (e.g., "Incident #," "Laboratory Number," "Investigation No.")		
Field Min	1	Occur Min	1
Field Max	24	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi: ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:ContributorCaseIdentificationNumber	Cardinality	1..5
XML Level 3	fbi-ebts:ContributorCasePrefixIdentification/nc:IdentificationID	Cardinality	1...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.010_2

Contributor Case Identifier Number

Contributor Case Identifier

Mnemonic	CIN_ID	Conditionality	M↑
		Status	Active
Description	The Contributor Case Identifier subfield (CIN_ID) of up to 24 characters.		
Field Min	1	Occur Min	1
Field Max	24	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi: ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:ContributorCaseIdentificationNumber	Cardinality	1..5
XML Level 3	fbi-ebts:ContributorCaseIdentification/nc:IdentificationID	Cardinality	1...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.013

Latent Case Number Extension

Mnemonic	LCX			Conditionality	0		
				Status	Active		
Description	Defines extensions assigned by the FBI for each submission related to a Latent Case Number. The LCX shall be a five-digit extension starting with “00000” for the first submission and incrementing by one for each subsequent submission. The LCX shall be used only in conjunction with LCN. As this field is for FBI LPS internal use only, this response field will be used for record-keeping purposes only.						
Field Min	5			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi: ebts:RecordTransactionActivity				Cardinality	0...1	
XML Level 2	fbi-ebts:FBI Latent Case Identification				Cardinality	1...1	
XML Level 3	fbi-ebts:FBI Latent Case Number Extension Identification/nc:IdentificationID				Cardinality	1...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.014

FBI Number UCN

Mnemonic	FBI			Conditionality	0		
				Status	Active		
Description	This field is used to uniquely specify Identities contained in the NGI database, and shall be no more than nine alphanumeric characters. This Universal Control Number (UCN) is used to identify records in the criminal, civil, ULF and other repositories. The UCN number returned in a response is dependent upon the search results. The Legacy Subject Control Number (SCNA) used for ULF records may be provided in this field where designated in the message definition.						
Field Min	1			Occur Min	0		
Field Max	9			Occur Max	1000		
Char Types	AN			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	j:PersonFBIIdentification/nc:IdentificationID				Cardinality	0...1000	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.015

State Identification Number

Mnemonic	SID	Conditionality	0
		Status	Active
Description	This field contains any known state identification number. The native encoding format is the standard two-character abbreviation of the state name followed by the number. Embedded blanks are not permitted. SIDs from New York, Oregon, or Pennsylvania may contain a hyphen in the last position. The SID returned in a response is dependent upon the search results. FBI IAFIS expects the format to be the standard two-character abbreviation of the state name followed by the number.		
Field Min	3	Occur Min	0
Field Max	10	Occur Max	1000
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	nc:PersonStateIdentification/nc:IdentificationID	Cardinality	0...1000
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.016

Social Security Account Number

Mnemonic	SOC	Conditionality	0
		Status	Active
Description	This field contains the subject's social security number, if known. This number shall be entered as nine consecutive digits with no embedded punctuation characters. No foreign social security numbers shall be used.		
Field Min	9	Occur Min	0
Field Max	9	Occur Max	4
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	nc:PersonSSNIdentification/nc:IdentificationID	Cardinality	0...4
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.017

Miscellaneous Identification Number

Mnemonic	MNU	Conditionality	O
		Status	Active
Description	If there are any miscellaneous identification numbers, they shall be entered in this field. The format of the data shall be a two-letter identifying code, followed by a hyphen -, followed by the number itself. The size of the MNU is limited to 15 characters and as many as four miscellaneous numbers may be included in this field. Each MNU shall be separated from the next by the {RS} separator character. See look up type and associated codes for the list of acceptable two-letter identifying codes. If "AF" or "AS" is entered, all characters following the hyphen must be numeric. Interspersed blanks are invalid. Types of numbers not listed in the MISCELLANEOUS IDENTIFICATION NUMBER CODE table shall not be entered. Only U.S. passport numbers shall be entered; foreign numbers shall be ignored. For the list of 2 letter identifying code, see look up codes below.		
Field Min	4	Occur Min	0
Field Max	15	Occur Max	4
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List	MISCELLANEOUS IDENTIFICATION NUMBER CODE		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	nc:PersonOtherIdentification	Cardinality	0...4
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.018

Name Legacy

Mnemonic	NAM	Conditionality	O
		Status	Active
Description	This alpha-special field contains the names of the subject. The format shall be the surname followed by a comma, followed by the given names, which are separated by a space. Part IV of the NCIC Code Manual describes in greater detail the manner in which each name is to be entered. Hyphens, commas, and blanks are all allowed as special characters. Numerics are not allowed. Special values of NAM to be entered in cases where the subject's name is not known are listed in the NAME look up code table.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	AS	Special Chars	
Format	NCIC Name Format: <surname>,<given name1>,<given name2> ...	Constraints	n/a
Code List	NAME		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	fbi-ebts:PersonName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.018_1

Name Legacy

Surname

Mnemonic	NAM1			Conditionality	O		
				Status	New-Active		
Description	A last name or family name of a person.						
Field Min	3			Occur Min	1		
Field Max	50			Occur Max	1		
Char Types	AS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonName				Cardinality	0...1	
XML Level 3	nc:PersonSurName				Cardinality	1...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.018_2

Name Legacy

Given Name

Mnemonic	NAM2				Conditionality	O		
					Status	New-Active		
Description	A first name of a person.							
Field Min	3				Occur Min	0		
Field Max	50				Occur Max	1		
Char Types	AS				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	NGI-DOC-01078-10.0							
XML Level 1	fbi-ebts:RecordSubject					Cardinality	0...1	
XML Level 2	fbi-ebts:PersonName					Cardinality	0...1	
XML Level 3	nc:PersonGivenName					Cardinality	0...1	
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

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Type-2: User-Defined Descriptive Text

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2.018_3

Name Legacy

Middle Name

Mnemonic	NAM3				Conditionality	O			
					Status	New-Active			
Description	A middle name of a person.								
Field Min	3				Occur Min	0			
Field Max	50				Occur Max	1			
Char Types	AS				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	NGI-DOC-01078-10.0								
XML Level 1	fbi-ebts:RecordSubject					Cardinality	0...1		
XML Level 2	fbi-ebts:PersonName					Cardinality	0...1		
XML Level 3	nc:PersonMiddleName					Cardinality	0...1		
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

2.019

Aliases Legacy

Mnemonic	AKA		Conditionality	O	
			Status	Active	
Description	This 3-to-30 alpha-special AS field contains alias names of the subject. Up to ten aliases may be provided, separated from one another by the {RS} character. AKA may contain a comma, hyphen, or blank as special characters. The format shall be the surname followed by a comma, followed by the given names separated by a space. The following restrictions and exceptions to the general format apply (the first three apply only to the traditional encoding): 1. Minimum length is three bytes in the following sequence: alpha or ampersand, comma, or alphabetic. 2. A comma must be followed by a minimum of one alphabetic character. 3. A blank before or after comma is invalid. 4. A hyphen in first and last position of any name segment is invalid. 5. Two consecutive blanks or hyphens between characters are invalid.				
Field Min	3		Occur Min	0	
Field Max	50		Occur Max	1	
Char Types	AS		Special Chars		
Format	n/a		Constraints	n/a	
Code List					
Source	NGI-DOC-01078-10.0				
XML Level 1	fbi-ebts:RecordSubject			Cardinality	0...1
XML Level 2	fbi-ebts:PersonAlternateName			Cardinality	0...10
XML Level 3	nc:PersonGivenName, nc:PersonMiddleName, nc:PersonSurName, fbi-ebts:PersonFourthImportanceName ,fbi-ebts:PersonFifthImportanceName			Cardinality	0...1
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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Type-2: User-Defined Descriptive Text

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2.02

Place of Birth

Mnemonic	POB	Conditionality	O
		Status	Active
Description	The subject's place of birth shall be entered in this field. Indicate in this POB field the state Mexican, United States, territorial possession, province Canadian, or country of birth. The appropriate two-letter abbreviation shall be used as listed in Part IV of the NCIC State and Country Data Code Table (Appendix O NGI-DOC-01078-10.0).		
Field Min	2	Occur Min	0
Field Max	2	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	PLACE OF BIRTH CONDITIONS and Appendix O NGI-DOC-01078-10.0		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	fbi-ebts:PersonBirthPlaceCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.021

Country of Citizenship

Mnemonic	CTZ	Conditionality	O
		Status	Active
Description	This field contains two-letter abbreviation for the name of the country of which the subject is a citizen. Entry must be a valid country code from the NCIC State and Country Data Code Table found in Appendix O [of FBI EBTS10.0].		
Field Min	2	Occur Min	0
Field Max	2	Occur Max	10
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	Appendix O NGI-DOC-01078-10.0		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	fbi-ebts:PersonCitizenshipCode	Cardinality	0...10
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.022

Date of Birth

Mnemonic	DOB	Conditionality	0
		Status	Active
Description	This field contains the date of birth. It is entered as an eight-digit number in the same format as specified in Section 1.1 of this appendix [in FBI EBTS 9.1]. If DOB is completely unknown, enter as 00000000. Partial DOBs are not allowed. DOB shall not exceed date of submission after time zone adjustment. When a submission contains an unknown DOB and is a non-ident retained, that submission will be rejected, as IAFIS will not allow a master record to be created with an unknown DOB.		
Field Min	8	Occur Min	0
Field Max	8	Occur Max	5
Char Types	N	Special Chars	
Format	YYYYMMDD	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	nc:PersonBirthDate/nc:Date	Cardinality	0...5
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.023

Age Range

Mnemonic	AGR	Conditionality	0
		Status	Active
Description	An estimated age range may be entered using a pair of two-digit numbers. The first two digits shall represent the minimum age, and the second two the maximum. There shall be no separator character used between the ages.		
Field Min	4	Occur Min	0
Field Max	4	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	nc:PersonAgeMeasure	Cardinality	0...1
XML Level 3	nc:MeasureIntegerRange/nc:RangeMinimumValue/nc:RangeMaximumValue	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.024

Sex

Mnemonic	SEX	Conditionality	0
		Status	Active
Description	This field is used to report the gender of the subject. The entry is a single character selected from the GENDER CODES table in Appendix A of the EBTS IDD v6.0.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	GENDER CODES		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	fbi-ebts:PersonSexCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.025

Race Legacy

Mnemonic	RAC	Conditionality	0
		Status	Active
Description	This field is used to indicate the race of the subject. Use the predominant race code from the [look up codes].		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	RACE		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	nc:PersonRace	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.026

Scars, Marks and Tattoos

Mnemonic	SMT	Conditionality	0
		Status	Active
Description	For each scar, mark, or tattoo present on the subject, the appropriate NCIC code shall be used in this information item. Blanks are allowed as special characters.		
Field Min	3	Occur Min	0
Field Max	10	Occur Max	10
Char Types	AS	Special Chars	
Format	n/a	Constraints	n/a
Code List	NCIC DESTINATION		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	fbi-ebts:PersonPhysicalFeature	Cardinality	0...1
XML Level 3	nc:PhysicalFeatureCategoryText	Cardinality	0...10
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.027

Height Legacy

Mnemonic	HGT	Conditionality	0
		Status	Active
Description	This field contains the subject's height as a three-character value. If reported in feet and inches, the first leftmost digit is used to show feet while the two rightmost digits are used to show the inches between 00 and 11. If reported in inches then the left most character is "N" followed by two digits. If height is unknown, 000 is entered. The allowable range is 400 to 711. Heights outside this range will be clamped at these limits.		
Field Min	3	Occur Min	1
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	nc:PersonHeightMeasure	Cardinality	0...1
XML Level 3	nc:MeasureValue/nc:MeasureUnitText	Cardinality	1...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.028

Height Range

Mnemonic	HTR	Conditionality	0
		Status	Active
Description	This field will be used to give an estimated height range to be expressed as two three-character values formatted as described for mnemonic HGT, indicating the shortest and tallest heights of the subject. For the native encoding of this field, the first three characters shall represent the minimum height and the second three the maximum height. There shall be no separator character used between the heights. The allowable range is 400 to 711 or N48 to N95		
Field Min	6	Occur Min	1
Field Max	6	Occur Max	1
Char Types	AS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	nc:PersonHeightMeasure	Cardinality	0...1
XML Level 3	nc:MeasureRangeValue/nc:RangeMinimumValue/nc:RangeMinimumValue/	Cardinality	1...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.029

Weight Legacy

Mnemonic	WGT	Conditionality	0
		Status	Active
Description	In this field, the subject's weight in pounds is entered. If weight is unknown, 000 is entered. All weights in excess of 499 pounds will be set to 499 lbs. WGT must be in the range 050 to 499 lbs. however, there is no minimum range limit for missing persons or unknown persons.		
Field Min	3	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	nc:PersonWeightMeasure	Cardinality	0...1
XML Level 3	nc:MeasureValue	Cardinality	1...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.03

Weight Range

Mnemonic	WTR			Conditionality	O		
				Status	Active		
Description	If a range of weight is given, it shall be expressed as two 3-digit numbers indicating the minimum and maximum weights in pounds of the subject. There shall be no separator character used between the weights. WTR must be in the range 050 to 499 lbs however, there is no minimum range limit for missing persons or unknown persons.						
Field Min	6			Occur Min	1		
Field Max	6			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	nc:PersonWeightMeasure				Cardinality	0...1	
XML Level 3	nc:PersonWeightMeasure/ nc:MeasureRangeValue or nc:RangeMaximumValue				Cardinality	1...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.031

Color Eyes

Mnemonic	EYE				Conditionality	O			
					Status	Active			
Description	For this field, the three-letter code from the following table is used to indicate the subject's color of eyes.								
Field Min	3				Occur Min	0			
Field Max	3				Occur Max	1			
Char Types	A				Special Chars				
Format	n/a				Constraints	n/a			
Code List	ALPHA EYE COLOR CODES								
Source	NGI-DOC-01078-10.0								
XML Level 1	fbi-ebts:RecordSubject					Cardinality	0...1		
XML Level 2	nc:PersonEyeColorCode					Cardinality	0...1		
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes		

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.032

Hair Color

Mnemonic	HAI	Conditionality	0
		Status	Active
Description	In this field, the three-letter code is used to indicate the subject's color of hair.		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	AS	Special Chars	
Format	n/a	Constraints	n/a
Code List	HAIR COLOR		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	nc:PersonHairColorCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.034

Pattern Level Classifications

Mnemonic	PAT	Conditionality	0
		Status	Active
Description	This grouped field contains pattern classification information about the latent finger(s) image. As such, this field shall only be included when one or more of finger positions 0-10 are being searched. PAT shall consist of two-character finger position code followed by the primary pattern type code as chosen from the following table. Up to two reference pattern classifications per finger are also allowed, thereby making the total number of pattern classes allowable per finger equal to three. For traditional encoding, if multiple pattern types are used for reference for the same finger, they shall be separated from each other by the {US} separator. Multiple fingers shall be separated by the {RS} separator. If submitting a Latent Fingerprint whose actual finger position is unknown, the PAT and FGP (2.074) fields are used in conjunction as follows to supply guesses for which finger position the latent print might be: place a "00" in the FGP subfield of PAT to indicate the actual position is unknown; place the actual pattern in the PATCL subfield; place one or more finger number guesses in the FGP field (2.074).		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	fbi-ebts:PersonFingerprintSet	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.034_0Pattern Level Classifications*Subfields: Repeating sets of information items*

Mnemonic	PAT_0				Conditionality	M↑		
					Status	New-Active		
Description	Repeating subfield for Pattern Level Classifications							
Field Min	n/a				Occur Min	1		
Field Max	n/a				Occur Max	10		
Char Types	n/a				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	EBTS 4.0							
XML Level 1	fbi-ebts:RecordSubject					Cardinality	0...1	
XML Level 2	fbi-ebts:PersonFingerprintSet					Cardinality	1...10	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.034_1Pattern Level Classifications*Finger Number*

Mnemonic	FGP			Conditionality	M↑		
				Status	Active		
Description	This two-byte field shall contain a character designating the finger position.						
Field Min	2			Occur Min	1		
Field Max	2			Occur Max	10		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List	FINGERPRINT TEN FINGER NUMBER PLUS UNKNOWN						
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonFingerprintSet				Cardinality	1...10	
XML Level 3	fbi-ebts:FingerprintImageFinger				Cardinality	0...10	
XML Level 4	biom_1:FingerPositionCode				Cardinality	1...10	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.034_2

Pattern Level Classifications

Pattern Classification Code

Mnemonic	PATCL			Conditionality	M ↑		
				Status	Active		
Description	The list of acceptable CJIS pattern level fingerprint classifications.						
Field Min	2			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	FINGERPRINT CJIS PATTERN CLASSIFICATION						
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonFingerprintSet				Cardinality	1...10	
XML Level 3	fbi-ebts:PersonFingerprintSet/ fbi-ebts:FingerprintImageFinger/ fbi-ebts:RidgeCoreDelta/fbi-ebts:FingerprintPatternClassificationCode				Cardinality	1...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.035

Palmprints Available Indicator

Mnemonic	PPA			Conditionality	O		
				Status	Active		
Description	If palm prints are available, this field shall contain a "Y"; otherwise, the field shall be omitted.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	PALM PRINT AVAILABLE INDICATOR						
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonPalmPrintAvailableIndicator				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.038

Date Printed

Mnemonic	DPR	Conditionality	O
		Status	Active
Description	This field contains the date that the subject was printed. This date field shall contain the local date for the region submitting the request. DPR shall not exceed the date of submission.		
Field Min	8	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	fbi-ebts:PersonGeneralizedFrictionRidgePositions/ or fbi-ebts:PersonFingerprintSet/	Cardinality	0...1
XML Level 3	nc:BiometricCaptureDate/nc:Date	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.039

Employer and Address

Mnemonic	EAD	Conditionality	O
		Status	Active
Description	The name and address of the subject's primary employer may be entered into this free-text field. The EAD returned in a response is the same as the one submitted. For the native encoding, this field is a free form text field.		
Field Min	1	Occur Min	0
Field Max	120	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	nc:Employer	Cardinality	0...1
XML Level 3	nc:EntityOrganization/nc:OrganizationName	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.04

Occupation

Mnemonic	OCP			Conditionality	0		
				Status	Active		
Description	This free-text field contains the person’s occupation. The OCP returned in a response is the same as the one submitted.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	nc:EmployeeOccupationText				Cardinality	0...1	
XML Level 3	nc:EmploymentLocation/ nc:LocationAddress/nc:StructuredAddress/nc:LocationStreet/ nc:StreetNumberText or nc:StreetName, nc:EmploymentLocation/ nc:LocationAddress/ nc:StructuredAddress/ nc:LocationStreet/nc:StreetName, nc:EmploymentLocation/ nc:LocationAdd				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.041

Residence of Person Fingerprinted

Mnemonic	RES			Conditionality	0		
				Status	Active		
Description	This is a free-text field, including printable special characters and formatting characters (CR, LF, TAB) that is used for the residential address of the person fingerprinted. The RES returned in a response is the same as the one submitted.						
Field Min	1			Occur Min	0		
Field Max	120			Occur Max	1		
Char Types	ANS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonResidenceLocation				Cardinality	0...1	
XML Level 3	fbi-ebts:PersonResidenceLocation/ nc:LocationAddress/ nc:StructuredAddress/ nc:LocationStreet/nc:StreetNumberText or nc:StreetName, fbi-ebts:PersonResidenceLocation/ nc:LocationAddress/ nc:StructuredAddress/nc:LocationCityName or nc:LocationStateNCICLSTAC				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.042

Military Code

Mnemonic	MIL	Conditionality	0
		Status	Active
Description	A one-letter code from the following table shall be entered in this field to indicate which branch of the United States Military submitted the enlistment transaction.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	MILITARY		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData	Cardinality	0...1
XML Level 2	dod-ebts:TransactionSubmissionMilitaryCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.043

Type of Search Requested

Mnemonic	TSR	Conditionality	0
		Status	Active
Description	A one-byte code shall be entered in this field from the Type of Search Codelist to indicate the type of record being submitted. The field is applicable to the NFUF, CPDR, FNDR, NNDR, CPNU, DOCE, EMUF, NFAP, and NFUE transactions.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	TYPE OF SEARCH		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionSearchRequestCategoryCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.045

Date of Arrest

Mnemonic	DOA	Conditionality	O
		Status	Active
Description	This field contains the date of arrest. The date shall appear as an eight-digit number. DOA shall not exceed date of submission except when the submission originates from an international contributor located in a time zone earlier than the Eastern Time Zone. This date field shall contain the local date for the region submitting the request.		
Field Min	8	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	
Format	YYYYMMDD	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData	Cardinality	0...1
XML Level 2	fbi-ebts:ArrestDate/nc:Date	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.046

Date of Arrest - Suffix

Mnemonic	DOS	Conditionality	O
		Status	Active
Description	This field contains a code representing the sequence of the subject's arrests within a given date. The code also indicates the type of fingerprint card on which the Date of Arrest was contained. This field is for internal use within the FBI only.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:ArrestDateSuffixCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.047Arrest Segment Literal

Mnemonic	ASL	Conditionality	0
		Status	Active
Description	This field is made up of the following subfields: Date of Offense DOO Arrest Offense Literal AOL.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:CriminalCycle	Cardinality	0...1
XML Level 3	fbi-ebts:ArrestOffenseData	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.047_0Arrest Segment Literal*Subfields: Repeating sets of information items*

Mnemonic	ASL_0	Conditionality	M↑
		Status	New-Active
Description	Repeating subfield for Arrest Segment Literal		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	40
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	EBTS 4.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:CriminalCycle	Cardinality	0...40
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.047_1

Arrest Segment Literal

Date of Offense

Mnemonic	DOO		Conditionality	O
			Status	Active
Description	The DOO shall appear as an eight-digit number. The DOO shall not exceed the current date except when the submission originates from an international contributor located in a time zone earlier than the Eastern Time Zone. This date field shall contain the local date for the region submitting the request. CJIS has edit checks in place to allow for the acceptance of the local date as valid up to 24 hours in advance to accommodate the variance between international time zones. The DOO shall be separated from the AOL by the {US} separator character. A DOO is prohibited without a corresponding AOL offense. If a DOO is not present, a {US} character separator shall still be used.			
Field Min	8	Occur Min	0	
Field Max	8	Occur Max	1	
Char Types	N	Special Chars		
Format	YYYYMMDD	Constraints	n/a	
Code List				
Source	NGI-DOC-01078-10.0			
XML Level 1	fbi-ebts:RecordTransactionActivity		Cardinality	0...1
XML Level 2	fbi-ebts:CriminalCycle		Cardinality	0...40
XML Level 3	fbi-ebts:OffenseDate/nc:Date		Cardinality	0...1
XML Level 4			Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0 Yes DoD EBTS 4.0 Yes

2.047_2

Arrest Segment Literal

Arrest Offense Literal

Mnemonic	AOL		Conditionality	M↑
			Status	Active
Description	A free text description of an offense charged on an arrest. The first character of the AOL text must not be blank. Each AOL should have a corresponding DOO.			
Field Min	1	Occur Min	1	
Field Max	300	Occur Max	1	
Char Types	ANS	Special Chars		
Format	n/a	Constraints	n/a	
Code List				
Source	NGI-DOC-01078-10.0			
XML Level 1	fbi-ebts:RecordTransactionActivity		Cardinality	0...1
XML Level 2	fbi-ebts:CriminalCycle		Cardinality	0...40
XML Level 3	j:ChargeText		Cardinality	1...1
XML Level 4			Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0 Yes DoD EBTS 4.0 Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.051

Court Segment Literal

Mnemonic	CSL	Conditionality	0
		Status	Active
Description	The CSL field is made up of the Court Disposition Date CDD, the Court Offense Literal COL, Other CourtSentence Provision Literal CPL, Court Disposition (CDN) and Court Count Number (CCT). A CDD (if available), followed by a COL, followed by a CPL, followed by a CDN, followed by CCT (if available), each separated by a {US} separator character must be present for each occurrence of the CSL field.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:CriminalCycle	Cardinality	0...40
XML Level 3	fbi-ebts:CourtDispositionData	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.051_0

Court Segment Literal- Subfields: Repeating sets of information items

Mnemonic	CSL_0	Conditionality	0
		Status	New-Active
Description	Repeating subfield for Court Segment Literal		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	40
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	EBTS 4.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:CriminalCycle	Cardinality	0...40
XML Level 3	fbi-ebts:CourtDispositionData	Cardinality	0...40
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.051_1

Court Segment Literal

Court Disposition Date

Mnemonic	CDD	Conditionality	O
		Status	Active
Description	The date a court count was disposed of by the court. The CDD shall appear as an eight-digit number. The CDD shall not exceed the current date except when the submission originates from an international contributor located in a time zone earlier than the Eastern Time Zone. This date field shall contain the local date for the region submitting the request.		
Field Min	8	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	
Format	YYYYMMDD	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:CriminalCycle	Cardinality	0...40
XML Level 3	fbi-ebts:CourtDispositionData	Cardinality	0...40
XML Level 4	nc:DispositionDate/nc:Date	Cardinality	0...1
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.051_2

Court Segment Literal

Court Offense Literal

Mnemonic	COL	Conditionality	M↑
		Status	Active
Description	A freeform text description of an offense charged in a court count. The first character of the COL must not be a blank.		
Field Min	1	Occur Min	1
Field Max	300	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:CriminalCycle	Cardinality	0...40
XML Level 3	fbi-ebts:CourtDispositionData	Cardinality	0...40
XML Level 4	j:ChargeText	Cardinality	1...1
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.051_3

Court Segment Literal

Other Court Sentence Provision Literal

Mnemonic	CPL	Conditionality	M↑
		Status	Active
Description	The freeform text containing information on sentence provisions.		
Field Min	1	Occur Min	1
Field Max	300	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:CriminalCycle	Cardinality	0...40
XML Level 3	fbi-ebts:CourtDispositionData	Cardinality	0...40
XML Level 4	nc:DispositionText	Cardinality	1...1
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.051_4

Court Segment Literal

Court Disposition

Mnemonic	CDN	Conditionality	M↑
		Status	New-Emerging
Description	A code from Table 12 of NGI-DOC-01078-10.0 representing the definitive disposition information about a Subject for a particular charge. This element must contain a value most closely associated with the disposition type.		
Field Min	1	Occur Min	1
Field Max	32	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:CriminalCycle	Cardinality	0...40
XML Level 3	fbi-ebts:CourtDispositionData	Cardinality	0...40
XML Level 4	fbi-ebts:DispositionCategoryCodeText	Cardinality	1...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.051_5

Court Segment Literal

Court Count Number

Mnemonic	CCT	Conditionality	O
		Status	New-Emerging
Description	A two-byte sequential number assigned to each court count, with the valid value range from 01 to 40.		
Field Min	2	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	>1 and <= 40
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:CriminalCycle	Cardinality	0...40
XML Level 3	fbi-ebts:CourtDispositionData	Cardinality	0...40
XML Level 4	fbi-ebts:CourtCountNumber	Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.053

Offense Category

Mnemonic	OFC	Conditionality	O
		Status	Sunset
Description	The category for a crime committed by the biometric subject.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List	OFFENSE CATEGORY		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:OffenseCategoryCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.054

Custody or Supervisory Status Start Date

Mnemonic	SSD	Conditionality	0
		Status	Active
Description	This field contains the start date for the subject's indicated custody or supervisory status. The date shall appear as an eight-digit number. The SSD may not be less than Date Of Arrest. The SSD shall not exceed the current date except when the submission originates from an international contributor located in a time zone earlier than the Eastern Time Zone. This date field shall contain the local date for the region submitting the request. The SSD may not be less than DOA. The SSD shall not exceed the current date.		
Field Min	8	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	
Format	YYYYMMDD	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:CriminalCycle	Cardinality	0...40
XML Level 3	fbi-ebts:CustodySupervisoryData	Cardinality	0...1
XML Level 4	nc:StartDate/nc:Date	Cardinality	0...1
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.055

Custody or Supervisory Literal

Mnemonic	SLE	Conditionality	0
		Status	Active
Description	This field contains the free-text description of the subject's custody or supervision status. The first character must not be blank. Entry of SLE requires that SSD also be entered.		
Field Min	1	Occur Min	0
Field Max	300	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:CriminalCycle	Cardinality	0...40
XML Level 3	fbi-ebts:CustodySupervisoryData	Cardinality	0...1
XML Level 4	fbi-ebts:SupervisionStatus(0...1)/nc:StatusText(0...1)	Cardinality	0...1
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.056

Identification Comments

Mnemonic	ICO				Conditionality	0	
					Status	Active	
Description	Additional miscellaneous identification remarks. The reason for caution may be entered in this free-text field. The first character may not be a blank.						
Field Min	1				Occur Min	0	
Field Max	50				Occur Max	1	
Char Types	ANS				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionActivity					Cardinality	0...1
XML Level 2	j:SubjectOffenderNoticeText					Cardinality	0...1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.057

Finger Numbers Requested

Mnemonic	FNR		Conditionality	0	
			Status	Active	
Description	This numeric field is used in transactions involving a request for fingerprint image information. The finger numbers for which image information is requested are selected from Table, “Finger Position Code,” in the ANSI/NIST-ITL. Up to 13 individual finger image numbers may be listed, separated from one another by the <RS> separator. For traditional encoding, the finger codes being requested shall appear as 01{RS}02{RS} ... {RS}10{GS}. This field may also include the supplemental position code of 19 and/or the palm position codes outlined in the associated codelist.				
Field Min	2		Occur Min	0	
Field Max	2		Occur Max	13	
Char Types	N		Special Chars		
Format	n/a		Constraints	n/a	
Code List	PALM POSITION and FINGER POSITION CODE				
Source	NGI-DOC-01078-10.0				
XML Level 1	fbi-ebts:RecordTransactionData			Cardinality	0...1
XML Level 2	fbi-ebts:TransactionFingerprintImagesRequested/biom_2:FingerPositionCode			Cardinality	0...13
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.059

Search Results Findings

Mnemonic	SRF			Conditionality	0		
				Status	Active		
Description	This field is used in responses to submissions and contains a single character indicating the results of a comparison. See Look Up Codes, which outlines the valid values, their meanings, and transactions which may contain those values. SRF values that are specific to a single request TOT reflect the request and response TOTs with a dash between them (e.g., FDSP-SRE), where only the response TOT contains the SRF field.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	SEARCH RESULT FINDING						
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionData				Cardinality	0...1	
XML Level 2	fbi-ebts:TransactionResponseData				Cardinality	0...1	
XML Level 3	fbi-ebts:TransactionSearchResultsCode				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.06

Status/Error Message

Mnemonic	MSG		Conditionality	0	
			Status	Active	
Description	This free-text field will contain reason, status, or error messages that are generated as a result of the processing of a transaction and will be sent back to the submitter. For example, an Unsolicited Unsolved Latent Delete transaction will contain the reason for the deletion of a record. For native encoding, each message will be separated by the RS separator character.				
Field Min	1		Occur Min	0	
Field Max	300		Occur Max	1000	
Char Types	ANS		Special Chars		
Format	n/a		Constraints	n/a	
Code List					
Source	NGI-DOC-01078-10.0				
XML Level 1	fbi-ebts:RecordTransactionData			Cardinality	0...1
XML Level 2	fbi-ebts:TransactionResponseData			Cardinality	0...1
XML Level 3	fbi-ebts:TransactionStatusText			Cardinality	0...1000
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.061

Case Title

Mnemonic	CST	Conditionality	0
		Status	Active
Description	This field identifies the Latent Case. It will include information concerning the case, and it must include the offense type.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	AS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	nc:CaseTitleText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.062

Image Type

Mnemonic	IMT	Conditionality	0
		Status	Active
Description	This field identifies the type of image e.g., palmprints, toe prints included in an electronic submittal. The list of IMT values to be used in an electronic latent submittal to identify the Type-7 or Type-13 records present. The field definition has been modified to allow multiple occurrences in one transaction. The following table is a list of IMT values to be used to identify the records present or biometric sets being referenced in the submission or response. Note that the value of 2 is deprecated in favor of the new value of 6, and the values 4 and 5 are deprecated in favor of the new value of 7.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1000
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List	BIOMETRIC IMAGE		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordBiometricImageCategoryCode	Cardinality	0...1000
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.064

Candidate List

Mnemonic	CAN	Conditionality	0
		Status	Active
Description	This grouped field shall contain a candidate list. It is composed of two subfields: Universal Control Number / UCN and Name / NAM. For traditional encoding, each field will be separated by a {US} separator and will be provided for each candidate in the list. Commas, hyphens, and blanks are allowed in the NAM subfield as specified in the NCIC Message Book, Part 1. Each UCN and NAM set shall be separated from the next by the {RS} separator character. Note: The UCN can contain an FBI number if appropriate for that record.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/ fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionCandidateList	Cardinality	0...3
XML Level 3	fbi-ebts:Candidate	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.064_0

Candidate List

Subfields: Repeating sets of information items

Mnemonic	CAN_0	Conditionality	0
		Status	New-Active
Description	Repeating subfield for Candidate List.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	99
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	EBTS 4.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionCandidateList (0...3)/fbi-ebts:Candidate (1...99)	Cardinality	1...99
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.064_1

Candidate List

Universal Control Number

Mnemonic	SI	Conditionality	M↑
		Status	Active
Description	This conditional alphanumeric text field is used to identify the record with which the photos or images being requested are associated, to identify candidates in a candidate list, or otherwise identify individual subject records. The UCN can contain an FBI number FNU if appropriate for that record.		
Field Min	1	Occur Min	1
Field Max	9	Occur Max	1
Char Types	AN	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionCandidateList (0...3)/fbi-ebts:Candidate (1...99)	Cardinality	1...99
XML Level 3	j:PersonFBIIdentification/nc:IdentificationID	Cardinality	1...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.064_2

Candidate List

Name

Mnemonic	NAM	Conditionality	M↑
		Status	Active
Description	This alpha-special field contains the names of the subject. The format shall be the surname followed by a comma , followed by the given names, which are separated by a space. Part IV of the NCIC Code Manual describes in greater detail the manner in which each name is to be entered. Numerics are not allowed.		
Field Min	3	Occur Min	1
Field Max	30	Occur Max	1
Char Types	AS	Special Chars	
Format	NCIC Name Format: <surname>,<given name1><given name2> ...	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionCandidateList (0...3)/fbi-ebts:Candidate (1...99)	Cardinality	1...99
XML Level 3	fbi-ebts:PersonName	Cardinality	0...1
XML Level 4	nc:PersonGivenName (0...1), nc:PersonMiddleName (0...1), nc:PersonSurName (1...1)	Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.065

Repository Statistics Response

Mnemonic	RSR	Conditionality	O
		Status	Active
Description	This field contains a file generated by the NGI Latent Friction Ridge system that provides detailed statistics that can be used to estimate the level of penetration of the repository given a set of search parameters defined in the search request. This field is in the form of a large ASCII file that can contain up to 96,000 bytes of alphanumeric-special (ANS) data. This field contains five items separated by tab characters: 1. Parameter name 2. Parameter Value 3. The fraction of the Criminal file having that value of the parameter 4. The fraction of the Civil file having that value of the parameter 5. The fraction of the combined Criminal and Civil files having the value of the parameter. In the traditional encoding formatting, the fields are separated with "whitespace" (spaces and/or tabs) with MS DOS end-of-line convention (CR/LR). A period character is used as a decimal point in the fraction values. The value should be interpreted as the proportion of records matching that category and code. Data rows containing all zeroes will not be returned.		
Field Min	1	Occur Min	0
Field Max	96000	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List	REPOSITORY STATISTICS RESPONSE		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/ fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionRepositoryResponse	Cardinality	0...1
XML Level 3	fbi-ebts:TransactionRepositoryResponseRecord	Cardinality	1...*
XML Level 4	fbi-ebts:RepositoryParameterText (1...1), fbi-ebts:RepositoryParameterValueText (1...1), fbi-ebts:RepositoryCriminalParameterPercent (1...1), fbi-ebts:RepositoryCivilParameterPercent (1...1), fbi-ebts:RepositoryCombinedParameterPercent1 (1...1)	Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

2.067

Image Capture Equipment

Mnemonic	IMA	Conditionality	O
		Status	Active
Description	This free text field is used to log the make, model, and serial number of the equipment used to acquire images. It is a grouped field, comprised of three subfields: the Make MAK, Model MODL, and Serial Number SERNO of the acquisition device, separated by the {US} separator character.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordImageCaptureDetail	Cardinality	0...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

2.067_1

Image Capture Equipment

Image Capture Equipment Legacy Derivable

Mnemonic	MAK			Conditionality	M↑		
				Status	Active		
Description	The Make of the acquisition device.						
Field Min	1			Occur Min	1		
Field Max	25			Occur Max	1		
Char Types	ANS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordImageCaptureDetail				Cardinality	0...1	
XML Level 2	biom_1:CaptureDeviceMakeText				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.067_2

Image Capture Equipment

Originating Fingerprint Reading System Model Legacy Derivable

Mnemonic	MODL			Conditionality	M↑		
				Status	Active		
Description	The Model of the acquisition device.						
Field Min	1			Occur Min	0		
Field Max	25			Occur Max	1		
Char Types	ANS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordImageCaptureDetail				Cardinality	0...1	
XML Level 2	biom_1:CaptureDeviceModelText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.067_3Image Capture Equipment*Originating Fingerprint Reading System Model Legacy Derivable*

Mnemonic	SERNO	Conditionality	M↑
		Status	Active
Description	The Serial Number of the acquisition device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordImageCaptureDetail	Cardinality	0...1
XML Level 2	biom_1:CaptureDeviceSerialNumberText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

2.07Request for Electronic Rap Sheet

Mnemonic	RAP	Conditionality	0
		Status	Active
Description	The purpose of this field is to allow the contributor to optionally request an electronic identity history summary (IdHS) of the identity. An NIDR is returned if the submission results in a nonidentification. A 'Y' in this field indicates that an IdHS is desired, while an omitted field or an 'N' in this field indicates that no IdHS should be returned with the response.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	YES NO CODES		
Source	NGI-DOC-01078-10.0		
XML Level 1	ansi-nist:RecordRapSheetRequestIndicator	Cardinality	0...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.071

Action to be Taken

Mnemonic	CAN		Conditionality	0	
			Status	Active	
Description	This field is used to include text answers to submission requests to indicate that a latent case will be established or to indicate recommendations for further actions in either latent or tenprint responses. This field will also be used to indicate action taken by the FBI in response to electronic document e.g., disposition submissions. For the native encoding of this field, commas, hyphens, ampersands, slashes, number signs, and blanks are all allowed as special characters.				
Field Min	0		Occur Min	0	
Field Max	300		Occur Max	1	
Char Types	ANS		Special Chars	T = Comma, Hyphen, Ampersand, Slash, Number Sign, Blanks	
Format	n/a		Constraints	n/a	
Code List					
Source	NGI-DOC-01078-10.0				
XML Level 1	fbi-ebts:RecordTransactionData			Cardinality	0...1
XML Level 2	fbi-ebts:TransactionResponseData			Cardinality	0..1
XML Level 3	fbi-ebts:TransactionActionText			Cardinality	0...1
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.072

Fingerprint Images Updated

Mnemonic	FIU		Conditionality	0	
			Status	Active	
Description	This field contains the finger positions that were updated in the FBI’s Fingerprint Image Master File as a result of an electronic request to update fingerprint images. The finger numbers for which image information is requested are selected from Table, “Finger Position Code,” in the ANSI/NISTITL. Up to 13 individual finger numbers may be listed. For encoding, each finger number will be separated from one another by the {RS} separator. If images of all 14 fingers were updated, the single character “A” is shown instead of individual finger numbers. If no images were updated, an ‘N’ will be returned.				
Field Min	1		Occur Min	0	
Field Max	2		Occur Max	13	
Char Types	AN		Special Chars		
Format	n/a		Constraints	n/a	
Code List	FINGERPRINT IMAGE UPDATED CODES				
Source	NGI-DOC-01078-10.0				
XML Level 1	fbi- ebts:RecordTransactionData/ebts:TransactionFingerprintImagesUpdated			Cardinality	0...1
XML Level 2	biom_2:FingerPositionCode			Cardinality	0...13
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.073

Controlling Agency Identifier

Mnemonic	CRI	Conditionality	O
		Status	Active
Description	In Criminal and Civil transactions, the first instance of this field (CRI1) shall contain the Originating Agency Identifier (ORI) of the organization controlling the transaction. The CRI may be different from the submitting agency's ORI (e.g., the CSA), which shall be placed in the ORI field. When the controlling agency is also the submitting agency, both the ORI and CRI fields shall be submitted with the same identifier. (See Appendix B for definition of ORI.) In criminal transactions, the CRI will usually refer to the booking station that has submitted the subject's fingerprints to be transmitted through the CSA to the FBI. The FBI uses the first instance of CRI (CRI1) in any transaction that would modify criminal records as the authority to do so. When a Civil transaction matches a criminal record and the CRI1 is not authorized to receive the data, the ORI of the State Identification Bureau that submitted the transaction will be used instead. The second and third instances of CRI, when sent, are treated as user-defined fields.		
Field Min	9	Occur Min	0
Field Max	9	Occur Max	99
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:RecordControllingAgency or fbi-ebts:PersonFingerprintSet	Cardinality	0...3
XML Level 3	nc:OrganizationIdentification/nc:IdentificationID	Cardinality	1...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.074

Finger Numbers Requested*Finger Position*

Mnemonic	FGP	Conditionality	O
		Status	Active
Description	This field is used for latent submissions and searches and contains the fingerprint position code of the latent prints submitted. If more than one finger is submitted with native encoding, then the codes will be separated by the {RS} character separator. For latent searches, if multiple fingerprint images are included in one search, finger position is mandatory for all images. If finger position is unknown, the search may contain only a single image, and the field FGP will be omitted or may contain multiple guesses at the correct finger position in the FGP field. In this case, the PAT field must contain "00" in its Finger Number subfield to indicate that the actual position is unknown (see also PAT entry). If the submitter cannot determine what portion of the hand the latent image was derived from, then the position code should be omitted or "18" to spawn a search of all friction ridge areas (fingerprints, palm prints, supplemental prints) within the FBI/CJIS repository. If the submitter cannot determine what portion of the hand the latent image was derived from, then the position code should be omitted or "18" to spawn a search of all friction ridge areas (fingerprints, palm prints, supplemental prints) within the FBI/CJIS repository.		
Field Min	2	Occur Min	1
Field Max	2	Occur Max	10
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List	FRICTION RIDGE GENERALIZED POSITION		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	1...10
XML Level 2	fbi-ebts:PersonGeneralizedFrictionRidgePositions	Cardinality	1...10
XML Level 3	biom_2:FrictionRidgePositionCode/biom_2:FingerPositionCode or fbi-ebts:FingerprintImageFinger/biom_2:FingerPositionCode	Cardinality	1...10
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.075

Electronic Rap Sheet

Mnemonic	ERS	Conditionality	O
		Status	Active
Description	This field shall contain the Electronic Identity History Summary (IdHS) of an identified subject. In the case of a non-identification, the IdHS will consist of the Non-Identification Response (NIDR). For a TPRR transaction that contains multiple candidates, the IdHS for each candidate will be concatenated into this field.		
Field Min	4	Occur Min	0
Field Max	200000	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	DOD_BTFS_TS_EBTS_Nov06_01.02.00		
XML Level 1	fbi-ebts:RecordTransactionData	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionResponseData	Cardinality	0..1
XML Level 3	fbi-ebts:TransactionElectronicRapSheetText	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.078

Penetration Query Response

Mnemonic	PEN			Conditionality	0		
				Status	Sunset		
Description	This field provides a response to the penetration query that includes a set of search parameters for a new search. The response will be an estimated size, in percentage, of the repository that will be searched given the input parameters.						
Field Min	2			Occur Min	0		
Field Max	0			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionData				Cardinality	0...1	
XML Level 2	fbi-ebts:TransactionResponseData				Cardinality	0..1	
XML Level 3	fbi-ebts:TransactionPenetrationQueryResponsePercent				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	No

2.079

Number of Candidates' Images Returned

Mnemonic	NCR			Conditionality	0		
				Status	Active		
Description	This field contains the number of candidates the submitter desires to receive in response to a biometric Investigative Search request per ranked candidate list, with a maximum of 99. If multiple candidate lists are to be returned in a search request, the If the NIR in the request is greater than NCR in the request, CJIS will set NIR to the NCR value. This field is also found in the responses to a biometric Investigative Search where it reflects the actual total number of candidates returned in the CNL for the entire concatenated list. For EQRR, this field identifies the number of Identity History Summary reports that are be returned in response to an EQHR.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionData				Cardinality	0...1	
XML Level 2	fbi-ebts:TransactionImagesRequestedQuantity				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.08

Response Explanation

Mnemonic	EXP	Conditionality	0
		Status	Active
Description	This field is free-form text to elaborate on the Response Code field for the Type-10 Photo record requested.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionResponseData	Cardinality	0..1
XML Level 3	dod-ebts:TransactionReasonText	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

2.082

Response Code

Mnemonic	REC	Conditionality	0
		Status	Active
Description	Natively, this one-byte alpha field will contain allowable values of "Y" or "N." This field is used in the PDR and PRR transactions to indicate the status of the corresponding request. If the request contains any errors, the response code REC will be set to "N." Otherwise it will be set to "Y."		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	YES NO CODES		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionResponseData	Cardinality	0...1
XML Level 3	fbi-ebts:TransactionResponseIndicator	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.083

Unsolved Latent File

Mnemonic	ULF			Conditionality	0		
				Status	Active		
Description	This one-character alpha field is used to designate whether a latent image or features record in a search should be added to the Unsolved Latent File. Submit a "Y" for yes. If negative, submit "N". If the field is omitted, the default behavior will be 'N'.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	YES NO CODES						
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionData				Cardinality	0...1	
XML Level 2	fbi-ebts:TransactionUnsolvedLatentFileIndicator				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.084

Amputated or Bandaged

Mnemonic	AMP			Conditionality	0		
				Status	Active		
Description	This repeating field contains information about amputated or bandaged fingerprints in a submission. The field is composed of repeating sets of two subfields: Finger Position / FGP and Amputated Or Bandaged Code / AMPCD. This field is to be used any time there are fewer than ten printable fingers in a tenprint submission for finger positions 1 – 10 or positions 11–15 to specify when no slap fingerprint images are provided in the finger positions. A partially amputated finger should be printed and be marked amputated, XX. If the finger’s image is missing for any reason, the UP code should be used. This field is used to tell the AFIS which finger positions need to be characterized. The UP code should only be used when the entire image is not provided for fingerprints in the submission. This code will indicate that the AFIS matcher should ignore this image and not include the image in the matching process. For the traditional encoding, the two-character finger position code is followed by the {US} separator and the amputated or bandaged code. Each set of fingers/amp codes shall be separated by the {RS} separator.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonFingerprintSet				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.084_0

Amputated or Bandaged

Subfields: Repeating sets of information items

Mnemonic	AMP_0				Conditionality	O			
					Status	New-Active			
Description	Repeating sub field for Amputated or Bandaged.								
Field Min	n/a				Occur Min	0			
Field Max	n/a				Occur Max	13			
Char Types	n/a				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	EBTS 4.0								
XML Level 1	fbi-ebts:RecordSubject					Cardinality	0...1		
XML Level 2	fbi-ebts:PersonFingerprintSet					Cardinality	0...13		
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

2.084_1

Amputated or Bandaged

Finger Position Code

Mnemonic	FGP			Conditionality	M↑		
				Status	Active		
Description	The two-character finger position code.						
Field Min	2			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	01 <= FGP <= 15		
Code List	FINGER POSITION CODE						
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonFingerprintSet				Cardinality	0...13	
XML Level 3	biom_2:FingerprintImageFingerMissing				Cardinality	0...13	
XML Level 4	biom_2:FingerPositionCode				Cardinality	1...1	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.084_2Amputated or Bandaged*Amputated or Bandaged Code*

Mnemonic	AMPCD			Conditionality	M↑		
				Status	Active		
Description	This information item provides the code that describes the reason the finger's image is missing.						
Field Min	2			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	AMPUTATED OR BANDAGED CODE						
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonFingerprintSet				Cardinality	0...13	
XML Level 3	biom_2FingerprintImageFingerMissing				Cardinality	0...13	
XML Level 4	biom_2:FingerMissingCode				Cardinality	1...1	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.086AFIS Segment Control Number

Mnemonic	SCNA			Conditionality	O		
				Status	Active		
Description	This field contains an identifier used to track or reference unsolved records. Legacy records that were deposited in the ULF prior to NGI Increment 3 will be referenced with their legacy SCNA. All other unsolved records will be referenced with a UCN in this field. The SCNA field is used, for example, to reference records in the ULF or UPF in the response to a latent or facial investigative search respectively.						
Field Min	1			Occur Min	0		
Field Max	10			Occur Max	1		
Char Types	AN			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionActivity				Cardinality	0...1	
XML Level 2	fbi-ebts:AFISSegmentControlID				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.087

Treat As Adult

Mnemonic	TAA			Conditionality	O		
				Status	Active		
Description	A one-byte optional field to indicate whether a juvenile is to be processed as an adult. A "Y" indicates yes; an omitted field indicates no. The TAA returned in a response is the same as the one submitted.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	If Yes, this field shall contain "Y," if No, the field is omitted.		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonAdultTreatmentIndicator				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.088

Note Field

Mnemonic	NOT		Conditionality	O	
			Status	Active	
Description	This free-text field is used to provide additional information regarding electronic latent submissions. For latent search identification results feedback, the NOT field will be used to indicate the candidate from the SRL that matched the search image. For UHN transactions, the NOT field will contain case related information about the search transaction with the hit that generated the unsolicited notification. For ULM transactions, the NOT field will provide information related to latent search images that are candidates for comparison with the unsolved latent (e.g., case-related identifiers or point of contact information).				
Field Min	1		Occur Min	0	
Field Max	1000		Occur Max	1	
Char Types	ANS		Special Chars		
Format	n/a		Constraints	n/a	
Code List					
Source	NGI-DOC-01078-10.0				
XML Level 1	fbi-ebts:RecordTransactionData			Cardinality	0...1
XML Level 2	fbi-ebts:TransactionDescriptionText			Cardinality	0...1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.089Match Score

Mnemonic	MSC			Conditionality	0		
				Status	Active		
Description	This field contains the match score from NGI for each candidate listed in the 2.064 CAN field.						
Field Min	1			Occur Min	0		
Field Max	6			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionData				Cardinality	0...1	
XML Level 2	fbi-ebts:TransactionResponseData (0...1)/fbi-ebts:TransactionCandidateList(0...3)				Cardinality	0...1	
XML Level 3	fbi-ebts:Candidate				Cardinality	0...1	
XML Level 4	fbi-ebts:CandidateMatchScoreValue				Cardinality	0...1	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.091Ridge Core Delta One for Subpattern Classification

Mnemonic	RCD1			Conditionality	0		
				Status	Active		
Description	This grouped field contains information about the finger(s) ridge counts and is used for Native Mode searches in conjunction with the Pattern Level Classification (PAT 2.034).						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonFingerprintSet				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.091_0Ridge Core Delta One for Subpattern Classification*Subfields: Repeating sets of information items*

Mnemonic	RCD1_0				Conditionality	M ↑	
					Status	New-Active	
Description	Repeating subfield for Ridge Core Delta One for Subpattern Classification.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	EBTS 4.0						
XML Level 1	fbi-ebts:RecordSubject					Cardinality	0...1
XML Level 2	fbi-ebts:PersonFingerprintSet					Cardinality	0...1
XML Level 3	fbi-ebts:FingerprintImageFinger					Cardinality	0...1
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.091_1Ridge Core Delta One for Subpattern Classification*Finger Position Code*

Mnemonic	FGP			Conditionality	M↑		
				Status	Active		
Description	The two-character finger position code. Pattern Level Classification PAT.			The two-character finger position code as specified for the related			
Field Min	2			Occur Min	1		
Field Max	2			Occur Max	10		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List	FINGER POSITION CODE						
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonFingerprintSet				Cardinality	0...1	
XML Level 3	fbi-ebts:FingerprintImageFinger				Cardinality	0...10	
XML Level 4	biom_2:FingerPositionCode				Cardinality	1...10	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.091_2Ridge Core Delta One for Subpattern Classification*First Subpattern Ridge Count*

Mnemonic	RCN1		Conditionality	M ↑	
			Status	Active	
Description	The Ridge Count Number (RCN1 and RCN2) represents the number of ridges between the core and the delta. For right and left slant loops, this count identifies the ridges crossed on a line between the core and the delta. For whorls, both the RCN1 and the RCN2 values have meaning. Permissible values are 1 to 30 for actual ridge counts and 30 if there are more than 30 ridges. The count of 31 indicates an unknown number of ridges, and 0 indicates that the ridge count is not applicable.				
Field Min	1		Occur Min	0	
Field Max	2		Occur Max	2	
Char Types	N		Special Chars		
Format	n/a		Constraints	n/a	
Code List	RIDGE COUNT NUMBER				
Source	NGI-DOC-01078-10.0				
XML Level 1	fbi-ebts:RecordSubject			Cardinality	0...1
XML Level 2	fbi-ebts:PersonFingerprintSet			Cardinality	0...1
XML Level 3	fbi-ebts:FingerprintImageFinger			Cardinality	0...10
XML Level 4	biom_2:RidgeCountValue			Cardinality	0...2
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.092Ridge Core Delta Two for Subpattern Classification

Mnemonic	RCD2			Conditionality	O		
				Status	Active		
Description	This grouped field contains information about the finger(s) ridge counts and is used for Native Mode searches in conjunction with the Pattern Level Classification (PAT 2.034).						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonFingerprintSet/ fbi-ebts:FingerprintImageFinger				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Ridge Core Delta Two for Subpattern Classification

Subfields: Repeating sets of information items

Mnemonic	RCD2_0			Conditionality	M↑		
				Status	New-Active		
Description	Repeating subfield for Ridge Core Delta Two for Subpattern Classification.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	EBTS 4.0						
XML Level 1	fbi-ebts:RecordSubject				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonFingerprintSet/ fbi-ebts:FingerprintImageFinger				Cardinality	0...1	
XML Level 3	fbi-ebts:FingerprintImageFinger				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.092_1

Ridge Core Delta Two for Subpattern Classification

Finger Position Code

Mnemonic	FGP		Conditionality	M↑	
			Status	Active	
Description	The two-character finger position code. Pattern Level Classification PAT.		The two-character finger position code as specified for the related		
Field Min	2		Occur Min	1	
Field Max	2		Occur Max	10	
Char Types	N		Special Chars		
Format	n/a		Constraints	n/a	
Code List	FINGER POSITION CODE				
Source	NGI-DOC-01078-10.0				
XML Level 1	fbi-ebts:RecordSubject			Cardinality	0...1
XML Level 2	fbi-ebts:PersonFingerprintSet/ fbi-ebts:FingerprintImageFinger			Cardinality	0...1
XML Level 3	fbi-ebts:FingerprintImageFinger			Cardinality	0...10
XML Level 4	biom_2:FingerPositionCode			Cardinality	1...10
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.092_2Ridge Core Delta Two for Subpattern Classification*Second Subpattern Ridge Count*

Mnemonic	RCN2		Conditionality	M ↑	
			Status	Active	
Description	The Ridge Count Number (RCN1 and RCN2) represents the number of ridges between the core and the delta. For right and left slant loops, this count identifies the ridges crossed on a line between the core and the delta. For whorls, both the RCN1 and the RCN2 values have meaning. Permissible values are 1 to 30 for actual ridge counts and 30 if there are more than 30 ridges. The count of 31 indicates an unknown number of ridges, and 0 indicates that the ridge count is not applicable. Deprecated for this set only.				
Field Min	1		Occur Min	0	
Field Max	2		Occur Max	2	
Char Types	N		Special Chars		
Format			Constraints	n/a	
Code List	RIDGE COUNT NUMBER				
Source	NGI-DOC-01078-10.0				
XML Level 1	fbi-ebts:RecordSubject			Cardinality	0...1
XML Level 2	fbi-ebts:PersonFingerprintSet/ fbi-ebts:FingerprintImageFinger			Cardinality	0...1
XML Level 3	fbi-ebts:RidgeCoreDelta			Cardinality	0...10
XML Level 4	biom_2:RidgeCountValue			Cardinality	0...2
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.095Repository Statistics Response

Mnemonic	RFR		Conditionality	0	
			Status	Active	
Description	This one-character alpha field is used to indicate a user’s desire to have CJIS return a Type-9 features record associated with an image requested via IRQ, LFIS, and LFFS transactions. For the Latent Investigative Search, the features and matched minutiae will be returned to allow for an overlay on the image for comparison purposes. A features record will be returned if the RFR value equals “Y.” A features record will not be returned if the field is omitted, its use is optional or if the value of RFR equals “N.”				
Field Min	1		Occur Min	0	
Field Max	1		Occur Max	1	
Char Types	A		Special Chars		
Format	n/a		Constraints	RFR = 'Y' or 'N'	
Code List	YES NO CODES				
Source	NGI-DOC-01078-10.0				
XML Level 1	fbi-ebts:RecordFeaturesRequestIndicator			Cardinality	0...1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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2.096

Request Photo Record

Mnemonic	RPR			Conditionality	O		
				Status	Sunset		
Description	This one-character alpha field is used to indicate a user’s desire to have the repository return a Type-10 photo record if one is on file and disseminable. This field is used in conjunction with a Rapid Fingerprint Identification Search transaction RPIS.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	Y = Photo Record Requested or N = Photo Record Not Requested						
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordPhotoRequestIndicator				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.098

Name of Designated Repository

Mnemonic	NDR			Conditionality	O			
				Status	Active			
Description	This field contains the numerical designation of the repository to be searched. Repository numbers are assigned by the CJIS Division. Multiple entries in this field will indicate a desire to search more than one repository.							
Field Min	1			Occur Min	0			
Field Max	3			Occur Max	10			
Char Types	N			Special Chars				
Format	n/a			Constraints	n/a			
Code List	DESIGNATED REPOSITORY NAME							
Source	NGI-DOC-01078-10.0							
XML Level 1	fbi-fbi-ebts:RecordFBIRepositoryCode					Cardinality	0...10	
XML Level 2						Cardinality		
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes	

2.3

BAT Global Unique Identifier

Mnemonic	GUID			Conditionality	0		
				Status	Active		
Description	This optional field shall contain the Biometrics Automated Toolset BAT Global Unique Identifier GUID as assigned to the subject by the BAT.						
Field Min	36			Occur Min	0		
Field Max	38			Occur Max	1		
Char Types	ANS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	DOD_BTf_TS_EBTS_Nov06_01.02.00						
XML Level 1	dod-ebts:BATGlobalUniqueIdentification/nc:IdentificationID				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.302

Internment Serial Number

Mnemonic	ISN		Conditionality	0	
			Status	Active	
Description	The internment serial number (ISN) is a unique identification number assigned to each EPW, RP and CI taken into the custody of the U.S. Armed Forces. The ISN will consist of three components, with the first two separated by a dash as follows: A. First Component. The first component will contain five characters. The first two will be the alpha-characters 'US'. The third character will be either the alpha or numeric designation for the command/theater under which the EPW, RP and CI came into the custody of the U.S. The fourth and fifth positions are alpha-characters designating the EPW, RP and CI serving power. B. Second Component. The second component is a six character numeric identifier. These numbers will be assigned consecutively to all EPW, RP and CI processed through ISN assigning organizations. The Branch PWIC will assign blocks of numbers to ISN assigning organization/elements in the supported theater. c. Third Component. The third component will consist of an acronym identifying the classification of the individual: either EPW, RP, or CI, to represent Enemy Prisoner of War, Retained Person, or Civilian Internee, respectively. Should an individual that was initially classified as an EPW later determined to be a medically or religiously qualified retained person, the classification may be changed to "RP"with the approval of the EPW command/brigade.				
Field Min	15		Occur Min	0	
Field Max	16		Occur Max	1	
Char Types	ANS		Special Chars		
Format	n/a		Constraints	n/a	
Code List					
Source	Army Regulation 190-8				
XML Level 1	dod-ebts:Internment Serial Number/nc:IdentificationID			Cardinality	0...1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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2.303

DoD Number

Mnemonic	DOD_NO			Conditionality	0
				Status	Active
Description	Number assigned to the enrollment by a DoD repository.				
Field Min	1			Occur Min	0
Field Max	9			Occur Max	5
Char Types	AN			Special Chars	
Format	n/a			Constraints	n/a
Code List					
Source	DOD_BTf_TS_EBTS_Nov06_01.02.00				
XML Level 1	dod-ebts:DoDNumber/nc:IdentificationID			Cardinality	0..5
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.308

Electronic Data Interchange Personal Identifier

Mnemonic	EDIPI			Conditionality	0
				Status	Active
Description	The identifier for the dossier collection of documents about the subject.				
Field Min	1			Occur Min	0
Field Max	50			Occur Max	1
Char Types	ANS			Special Chars	
Format	n/a			Constraints	n/a
Code List					
Source	DOD_BTf_TS_EBTS_Nov06_01.02.00				
XML Level 1	dod-ebts:ElectronicDataInterchangePersonalIdentification/nc:IdentificationID				Cardinality0...1
XML Level 2					Cardinality
XML Level 3					Cardinality
XML Level 4					Cardinality
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.309Defense Biometric Identification System Identifier

Mnemonic	DBIDS_ID			Conditionality	0		
				Status	Active		
Description	This optional field shall contain the DBIDS ID unique identifier for a DBIDS user.						
Field Min	10			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	ANS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	DOD_BTf_TS_EBTS_Nov06_01.02.00						
XML Level 1	dod-ebts:DBIDSIdentification/nc:IdentificationID				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.31Biometric Subject Personnel Type

Mnemonic	PER_TYPE			Conditionality	0		
				Status			
Description	Contains a code that describes a general category or classification of a biometric subject by the reason they are of interest when encountered.						
Field Min	3			Occur Min	0		
Field Max	50			Occur Max	47		
Char Types	AS			Special Chars			
Format	n/a			Constraints	n/a		
Code List	PERSON CATEGORY CODES						
Source	DOD_BTf_TS_EBTS_Nov06_01.02.00						
XML Level 1	dod-ebts:PersonCategoryCode				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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2.316

Request Mug Shot

Mnemonic	RMS			Conditionality	0		
				Status	Active		
Description	An indicator that requests a return of the most recent mug shot frontal pose on file with DoD for the given biometric subject. Otherwise, this field may be omitted.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	YES NO CODES						
Source	DOD_BTFS_TS_EBTS_Nov06_01.02.00						
XML Level 1	dod-ebts:MugShotRequestIndicator				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.317

Request IAFIS Search

Mnemonic	RIS				Conditionality	0	
					Status	Active	
Description	This optional field shall indicate a request to search IAFIS in addition to the DoD ABIS.						
Field Min	1				Occur Min	0	
Field Max	1				Occur Max	1	
Char Types	A				Special Chars		
Format	n/a				Constraints	n/a	
Code List	YES NO CODES						
Source	DOD_BTFS_TS_EBTS_Nov06_01.02.00						
XML Level 1	dod-ebts:IAFISSearchRequestIndicator				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.318

XML-based Rap Sheet

Mnemonic	XML				Conditionality	0			
					Status	Active			
Description	An electronic rap sheet for the biometric subject in XML format. Notes: The electronic rap sheet shall consist of lines with a maximum of 174 characters per line. The response formatting shall conform to a future DoD standard.								
Field Min	4				Occur Min	0			
Field Max	400000				Occur Max	1			
Char Types	ANS				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	DOD_BTf_TS_EBTS_Nov06_01.02.00								
XML Level 1	dod-ebts:TransactionXMLRapSheetText					Cardinality	0...1		
XML Level 2						Cardinality			
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes		

2.334

Submission Color Code

Mnemonic	SCC			Conditionality	0		
				Status	Active		
Description	The color classification of the biometric subject. Red Force includes persons that are Enemy Prisoners of War and Enemy Combatants. Blue Force includes persons that are U.S. Military, DoD Contractors, or DoD civilians. Grey Force includes person that are local nationals, Third Country Nationals or Contractors, or Coalition.						
Field Min	3			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	COLOR CLASSIFICATION CODES						
Source	DOD_BTf_TS_EBTS_Nov06_01.02.00						
XML Level 1	dod-ebts:PersonSubmissionColorCode				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.335

Dossier Number

Mnemonic	DOSSIER	Conditionality	0
		Status	Active
Description	The identifier for the dossier collection of documents about the subject.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	DOD_BTFS_TS_EBTS_Nov06_01.02.00		
XML Level 1	dod-ebts:DossierNumber/nc:IdentificationID		Cardinality 0...1
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.35

Alert

Mnemonic	ALERT	Conditionality	0
		Status	Active
Description	This field contains alert information that will be used in the case where a new submission into the system results in an IDENTED response against the submission containing the alert data. This field contains five information items and all five must be completed if this field is used. It consists of Alert Function, Alert Category, Alert Value, Alert Contact and Alert Detail.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	DOD_BTFS_TS_EBTS_Nov06_01.02.00		
XML Level 1	dod-ebts:Alert		Cardinality 0...1
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Alert

Subfields: Repeating sets of information items

Mnemonic	ALERT_0				Conditionality	M↑		
					Status	New-Active		
Description	Repeating subfield for Alert.							
Field Min	n/a				Occur Min	1		
Field Max	n/a				Occur Max	*		
Char Types	n/a				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	EBTS 4.0							
XML Level 1	dod-ebts:Alert					Cardinality	0...*	
XML Level 2						Cardinality		
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.350_1

Alert

Alert Function

Mnemonic	ALERT_FUN			Conditionality	M↑		
				Status	Active		
Description	An Indication of whether the alert on a biometric subject is currently set ON or OFF.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List	ON/OFF CODES						
Source	DOD_BTf_TS_EBTS_Nov06_01.02.00						
XML Level 1	dod-ebts:Alert				Cardinality	0...*	
XML Level 2	dod-ebts:AlertFunctionCode (0 = OFF, 1 = ON)				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Alert

Alert Category

Mnemonic	ALERT_CAT			Conditionality	M↑		
				Status	Active		
Description	The alert category assigned to a biometric subject indicating what action, if any, should be taken regarding the biometric subject if he/she is encountered. BEWL Categorical Watchlist has changed - need to resolve and update (48 categories). Coordinate with BIMA.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List	ALERT CATEGORY CODES						
Source	DOD_BTFS_TS_EBTS_Nov06_01.02.00						
XML Level 1	dod-ebts:Alert				Cardinality	0...*	
XML Level 2	dod-ebts:AlertCategoryCode				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.350_3

Alert

Alert Value

Mnemonic	ALERT_VAL				Conditionality	M↑		
					Status	Active		
Description	The level of interest in a given biometric subject who has been flagged for alert.							
Field Min	1				Occur Min	1		
Field Max	1				Occur Max	1		
Char Types	N				Special Chars			
Format	n/a				Constraints	n/a		
Code List	VALUE CODES							
Source	DOD_BTFS_TS_EBTS_Nov06_01.02.00							
XML Level 1	dod-ebts:Alert					Cardinality	0...*	
XML Level 2	dod-ebts:AlertLevelCode					Cardinality	1...1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes	

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2.350_4

Alert

Alert Contact

Mnemonic	ALERT_CONTACT			Conditionality	M↑		
				Status	Active		
Description	The agency and individual contact reference responsible for establishing the alert.						
Field Min	1			Occur Min	1		
Field Max	80			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	DOD_BTFS_TS_EBTS_Nov06_01.02.00						
XML Level 1	dod-ebts:Alert				Cardinality	0...*	
XML Level 2	dod-ebts:AlertContactName				Cardinality	0...1	
XML Level 3	nc:PersonDescriptionText				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.350_5

Alert

Alert Detail

Mnemonic	ALERT_DETAIL			Conditionality	M↑		
				Status	Active		
Description	Special handling instructions or other information about the individual identified in an alert.						
Field Min	1			Occur Min	0		
Field Max	255			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	DOD_BTFS_TS_EBTS_Nov06_01.02.00						
XML Level 1	dod-ebts:Alert				Cardinality	0...*	
XML Level 2	dod-ebts:AlertDetailDescriptionText				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.351**Encounter Protection**

Mnemonic	EP	Conditionality	O
		Status	Active
Description	The encounter protection fields defined below allow for an incoming submission to identify and conceal associations made with other previously submitted transactions. This set of fields can be used by an individual ORI to either protect or unprotect a single associated match or all associated matches. This field contains information that will be used in the case where a new submission wants the subject's association(s) to be protected or unprotected. Protection of either an individual encounter or multiple encounters will be decided based on the entries in this field. This field contains two subfields and both must be completed if this field is used. DoD EBTS v3.0 identifies Field 2.351 for Encounter Protection. However, Field 2.351 Encounter Protection shall not be configurable by the user or the biometric capturing device i.e., Encounter Protection is for internal use only at this time. Submissions from organizations that must use Encounter Protection should contact BIMA operations and coordinate the use of Encounter Protection with them. It is the responsibility of ABIS to follow the Encounter Protection business rules based on the ORI		
Field Min	Encoding Specific	Occur Min	0
Field Max	Encoding Specific	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	DOD_BTFS_TS_EBTS_Nov06_01.02.00		
XML Level 1	dod-ebts:EncounterProtection	Cardinality	0...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.351_1**Encounter Protection*****Encounter Protection Function***

Mnemonic	EP_FUN	Conditionality	M↑
		Status	Active
Description	This field contains information that will be used to determine the action to be taken. It will contain a single numeric value 0=Unprotect, 1=Protect.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List	ENCOUNTER PROTECTION FUNCTION CODES		
Source	DOD_BTFS_TS_EBTS_Nov06_01.02.00		
XML Level 1	dod-ebts:EncounterProtection	Cardinality	0...1
XML Level 2	dod-ebts:EncounterProtectionFunctionCode	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.351_2Encounter Protection*Encounter Protection Level*

Mnemonic	EP_LEVEL			Conditionality	M ↑		
				Status	Active		
Description	This field contains information that will be used to determine the level of protection being assigned to the subject being searched. This field will contain a single numeric value 0 = Single Encounter, 1 = All Encounter.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List	ENCOUNTER PROTECTION LEVEL CODES						
Source	DOD_BTFS_TS_EBTS_Nov06_01.02.00						
XML Level 1	dod-ebts:EncounterProtection				Cardinality	0...1	
XML Level 2	dod-ebts:EncounterProtectionLevelCode				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.85Biometric Modality Available

Mnemonic	BIO_MOD_0			Conditionality	0		
				Status	Emerging		
Description	List the biometric modalities available within a specific designated repository and the identifier assigned to it by the repository if applicable. Part of a response from a submission or search.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Blue Force capability. Pending approval						
XML Level 1	dod-ebts:BiometricModality				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.850_0Biometric Modality Available*Subfields: Repeating sets of information items*

Mnemonic	BIO_MOD	Conditionality	O
		Status	Emerging
Description	Repeating subfield for Biometric Modality Available.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	*
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	EBTS 4.0		
XML Level 1	dod-ebts:BiometricModality		Cardinality 0...*
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.850_1Biometric Modality Available*Modality Type*

Mnemonic	MOD_TYPE	Conditionality	O
		Status	Emerging
Description	The type of biometric modality indicated.		
Field Min	3	Occur Min	0
Field Max	6	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	MODALITY TYPE CODES		
Source	Developed for Blue Force capability. Pending approval		
XML Level 1	dod-ebts:BiometricModality		Cardinality 0...*
XML Level 2	dod-ebts:ModalityTypeCode		Cardinality 0..1
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Biometric Modality Available

Modality Sub-Type

Mnemonic	MOD_TYPE	Conditionality	O
		Status	Emerging
Description	A more specific type of the particular biometric modality being referenced. For example, finger position code is the Modality Sub-Type of Fingerprint Image, the left or right position of the eye is the Biometric Sub-Type of Iris Image, and subject pose code is the Biometric Sub-Type of a Facial Photo Image.		
Field Min	1	Occur Min	0
Field Max	5	Occur Max	1
Char Types	AN	Special Chars	
Format	n/a	Constraints	n/a
Code List	MODALITY SUB-TYPE CODES		
Source	Developed for Blue Force capability. Pending approval		
XML Level 1	dod-ebts:BiometricModality	Cardinality	0...*
XML Level 2	dod-ebts:ModalitySubTypeCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.850_3

Biometric Modality Available

Name of Designated Repository

Mnemonic	MOD_REPO	Conditionality	O
		Status	Emerging
Description	This field contains the numerical designation of the repositories to be searched. Repository numbers are assigned by the CJIS Division. Multiple entries will be separated by the {RS} separator. This information item indicates the repository where the modality is located.		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List	DESIGNATED REPOSITORY NAME		
Source	Developed for Blue Force capability. Pending approval		
XML Level 1	dod-ebts:BiometricModality	Cardinality	0...*
XML Level 2	FBI:"ebts:RecordFBIRepositoryCode" /nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Biometric Modality Available

Modality Location Originating Agency Identifier

Mnemonic	MOD_LOC	Conditionality	O
		Status	Emerging
Description	The Originating Agency Identifier of the location which has the biometric modality available for the identified biometric subject.		
Field Min	9	Occur Min	1
Field Max	9	Occur Max	1
Char Types	AN	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Blue Force capability. Pending approval		
XML Level 1	dod-ebts:BiometricModality	Cardinality	0...*
XML Level 2	nc:Agency	Cardinality	0..1
XML Level 3	nc:OrganizationDescriptionText	Cardinality	1.1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.850_5

Biometric Modality Available

Modality Retrieval Identifier Type

Mnemonic	MOD_ID_TYPE	Conditionality	O
		Status	Emerging
Description	The type of identifier used to retrieve the biometric modality e.g. TCN, FNU, DOD, SSN, ISN, GUID, etc. It is up to the Application Profile to determine what the appropriate identifier types should be.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	IDENTIFIER TYPE CODES		
Source	Developed for Blue Force capability. Pending approval		
XML Level 1	dod-ebts:BiometricModality	Cardinality	0...*
XML Level 2	dod-ebts:ModalityIdentifierTypeCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.850_6Biometric Modality Available*Modality Retrieval Identifier*

Mnemonic	MOD_ID	Conditionality	O
		Status	Emerging
Description	The identifier used to retrieve the biometric modality.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Blue Force capability. Pending approval		
XML Level 1	dod-ebts:BiometricModality	Cardinality	0...*
XML Level 2	dod-ebts:RetrievalID/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.850_7Biometric Modality Available*Comment*

Mnemonic	MOD_COM	Conditionality	O
		Status	Emerging
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.		
Field Min	1	Occur Min	0
Field Max	126	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Blue Force capability. Pending approval		
XML Level 1	dod-ebts:BiometricModality	Cardinality	0...*
XML Level 2	nc:CommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.851**Biometric Modality Request**

Mnemonic	BIO_MODR	Conditionality	0
		Status	Emerging
Description	Specify the biometric modality being requested.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Blue Force capability. Pending approval		
XML Level 1	dod-ebts:BiometricModalityRequest	Cardinality	0...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

2.851_1**Biometric Modality Request****Modality Type**

Mnemonic	MODR_TYPE	Conditionality	M↑
		Status	Emerging
Description	The type of biometric modality indicated.		
Field Min	3	Occur Min	1
Field Max	6	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	MODALITY TYPE CODES		
Source	Developed for Blue Force capability. Pending approval		
XML Level 1	dod-ebts:BiometricModalityRequest	Cardinality	0...1
XML Level 2	dod-ebts:ModalityTypeCode	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

2.851_2Biometric Modality Request*Modality Sub-Type*

Mnemonic	MODR_SUBTYPE			Conditionality	0		
				Status	Emerging		
Description	A more specific type of the particular biometric modality being referenced.						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	AN			Special Chars			
Format	n/a			Constraints	n/a		
Code List	MODALITY SUB-TYPE CODES						
Source	Developed for Blue Force capability. Pending approval						
XML Level 1	dod-ebts:BiometricModalityRequest				Cardinality	0...1	
XML Level 2	dod-ebts:SubTypeCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.851_3Biometric Modality Request*Name of Designated Repository*

Mnemonic	MODR_REPO			Conditionality	O		
				Status	Emerging		
Description	This field contains the numerical designation of the repositories to be searched. Repository numbers are assigned by the CJIS Division. Multiple entries will be separated by the {RS} separator. This information item indicates the repository where the modality is located.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars			
Format				Constraints	n/a		
Code List	DESIGNATED REPOSITORY NAME						
Source	Developed for Blue Force capability. Pending approval						
XML Level 1	dod-ebts:BiometricModalityRequest				Cardinality	0...1	
XML Level 2	dod-ebts:RespositoryCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Biometric Modality Request

Modality Location Originating Agency Identifier

Mnemonic	MODR_AGENCY			Conditionality	0		
				Status	Emerging		
Description	The Originating Agency Identifier of the location which has the biometric modality available for the identified biometric subject.						
Field Min	9			Occur Min	1		
Field Max	9			Occur Max	1		
Char Types	AN			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Blue Force capability. Pending approval						
XML Level 1	dod-ebts:BiometricModalityRequest				Cardinality	0...1	
XML Level 2	nc:Agency				Cardinality	0..1	
XML Level 3	nc:OrganizationDescriptionText				Cardinality	1.1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.851_5

Biometric Modality Request

Modality Retrieval Identifier Type

Mnemonic	MODR_ID_TYPE			Conditionality	O		
				Status	Emerging		
Description	The type of identifier used to retrieve the biometric modality e.g. TCN, FNU, DOD, SSN, ISN, GUID, etc. It is up to the Application Profile to determine what the appropriate identifier types should be.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	IDENTIFIER TYPE CODES						
Source	Developed for Blue Force capability. Pending approval						
XML Level 1	dod-ebts:BiometricModalityRequest				Cardinality	0...1	
XML Level 2	dod-ebts:ModalityIdentifierCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.851_6

Biometric Modality Request

Modality Retrieval Identifier

Mnemonic	MODR_ID	Conditionality	O
		Status	Emerging
Description	The identifier used to retrieve the biometric modality.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Blue Force capability. Pending approval		
XML Level 1	dod-ebts:BiometricModalityRequest	Cardinality	0...1
XML Level 2	dod-ebts:ModalityRetrievalID/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.851_7

Biometric Modality Request

Requested Image Quantity

Mnemonic	MODR_QUAL	Conditionality	O
		Status	Emerging
Description	The maximum number of images the requester desires to receive.		
Field Min	0	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Blue Force capability. Pending approval		
XML Level 1	dod-ebts:BiometricModalityRequest	Cardinality	0...1
XML Level 2	dod-ebts:ImageQuantity	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Biometric Subject Body Build

Mnemonic	SUBJ_BUILD				Conditionality	0	
					Status	Emerging	
Description	The physique of an individual.						
Field Min	1				Occur Min	0	
Field Max	1				Occur Max	1	
Char Types	A				Special Chars		
Format	n/a				Constraints	n/a	
Code List	BODY BUILD CODES						
Source	Developed for BAT V5 AP. Pending approval.						
XML Level 1	nc:PersonBuild				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.853

Biometric Subject Education

Mnemonic	SUBJ_ED				Conditionality	0	
					Status	Emerging	
Description	The highest level of education the biometric subject has obtained.						
Field Min	2				Occur Min	0	
Field Max	2				Occur Max	1	
Char Types	N				Special Chars		
Format	n/a				Constraints	n/a	
Code List	EDUCATION CODES						
Source	Developed for BAT V5 AP. Pending approval.						
XML Level 1	dod-ebts:BiometricSubjEducation					Cardinality	0...1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Collection Unit

Mnemonic	SUBJ_SPEC				Conditionality	0	
					Status	Emerging	
Description	Information regarding the unit that collected the biometric sample.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	Developed for BAT V5 Application Profile. Pending approval.						
XML Level 1	dod-ebts:BiometricCollectionUnit					Cardinality	0..1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.854_1

Collection Unit

Superior Unit

Mnemonic	SUBJ_SPEC_VAL				Conditionality	M↑			
					Status	Emerging			
Description	The name of the superior unit.								
Field Min	1				Occur Min	1			
Field Max	50				Occur Max	1			
Char Types	U				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	Developed for BAT V5 Application Profile. Pending approval.								
XML Level 1	dod-ebts:BiometricCollectionUnit					Cardinality	0...1		
XML Level 2	dod-ebts:SuperiorUnitDescriptor					Cardinality	1..1		
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

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Collection Unit

SubSuperior Unit

Mnemonic	SUBJ_SPEC_PRO				Conditionality	O			
					Status	Emerging			
Description	The name of the sub superior unit.								
Field Min	1				Occur Min	0			
Field Max	50				Occur Max	1			
Char Types	U				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	Developed for BAT V5 Application Profile. Pending approval.								
XML Level 1	dod-ebts:BiometricCollectionUnit					Cardinality	0...1		
XML Level 2	dod-ebts:SubSuperiorUnitDescription					Cardinality	0..1		
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

2.855

Military Association

Mnemonic	MIL_ASSOC			Conditionality	O		
				Status	Emerging		
Description	The military branch that the subject is affiliated with. The set consists of the country that the military branch belongs in, the name of the military branch, the subject's rank/grade, and an indicator regarding if the subject is active or inactive in the military branch.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for BAT V5 Application Profile. Pending approval.						
XML Level 1	dod-ebts:MilitaryAssoc				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Military Association

Military Branch Country Code

Mnemonic	MIL_CNTRY	Conditionality	M↑
		Status	Emerging
Description	The country the military branch belongs in.		
Field Min	2	Occur Min	1
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	
Format	n/a	Constraints	n/a
Code List	GENC ALPHA3 CODES		
Source	Developed for BAT V5 Application Profile. Pending approval.		
XML Level 1	dod-ebts:MilitaryAssoc	Cardinality	0...1
XML Level 2	dod-ebts:MilitaryCountryGENCCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.855_2

Military Association

Military Branch Name

Mnemonic	MIL_BRNCH	Conditionality	M↑
		Status	Emerging
Description	The name of the military branch that the subject belongs in. E.G. Army, Navy, Air Force, Marine Corps. If this does not apply, then enter "Unknown".		
Field Min	1	Occur Min	1
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for BAT V5 Application Profile. Pending approval.		
XML Level 1	dod-ebts:MilitaryAssoc	Cardinality	0...1
XML Level 2	nc:MilitaryBranchName	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Military Association

Rank Grade Code

Mnemonic	MIL_RANK	Conditionality	O
		Status	Emerging
Description	The military rank or civilian rank of the person. Rank/Grade Codes of the Military Branch of the Country indicated.		
Field Min	1	Occur Min	0
Field Max	20	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List	MILITARY RANK GRADE CODES		
Source	Developed for BAT V5 Application Profile. Pending approval.		
XML Level 1	dod-ebts:MilitaryAssoc	Cardinality	0...1
XML Level 2	dod-ebts:MilitaryRankCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.855_4

Military Association

Military Active Indicator

Mnemonic	MIL_IND	Conditionality	O
		Status	Emerging
Description	Indicator whether the subject is active or inactive in the associated military.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	MILITARY ACTIVE INDICATOR CODES		
Source	Developed for BAT V5 Application Profile. Pending approval.		
XML Level 1	dod-ebts:MilitaryAssoc	Cardinality	0...1
XML Level 2	dod-ebts:MilitaryIndicator	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.856

Previous Transaction

Identification

Mnemonic	PREV_TRAN	Conditionality	O
		Status	Emerging
Description	The set shall contain a transaction identifier from an earlier submission. One usage might be to obtain the current transaction status. Another usage might be to request cancellation of the transaction. Different types of identifiers might be used to reference the transaction.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Blue Force capability. Pending approval.		
XML Level 1		Cardinality	0...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.856_1

Previous Transaction

Identifier Type

Mnemonic	PREV_TRAN_1	Conditionality	M↑
		Status	Emerging
Description	The category of the identifier such as TCN, EncounterID, etc. used to identify a previous transaction.		
Field Min	1	Occur Min	1
Field Max	20	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Blue Force capability. Pending approval.		
XML Level 1	dod-ebts:PreviousTransaction	Cardinality	0...1
XML Level 2	nc:ActivityCategoryText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.856_2Previous Transaction*Previous Transaction Identifier*

Mnemonic	PREV_TRAN_2	Conditionality	M↑
		Status	Emerging
Description	The value of the identifier used to identify a previous transaction.		
Field Min	1	Occur Min	1
Field Max	100	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Blue Force capability. Pending approval.		
XML Level 1	dod-ebts:PreviousTransaction	Cardinality	0...1
XML Level 2	dod-ebts:PreviousActivity/nc:IdentificationID	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.856_3Previous Transaction*Transaction Association*

Mnemonic	PREV_TRAN_3	Conditionality	O
		Status	New-Emerging
Description	An augmentation point for the previous activity.		
Field Min	1	Occur Min	0
Field Max	100	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Added in NEIM Core to nc:PreviousActivity		
XML Level 1	dod-ebts:PreviousTransaction	Cardinality	0...1
XML Level 2	nc:PreviousActivityAssociationAugmentationPoint	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.858

Vendor Software

Mnemonic	SOFT_VEN				Conditionality	0	
					Status	Emerging	
Description	Information regarding the software application provided by vendor. The set consists of Software Vendor Name, Software Application Name and Software Application Version Number.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	Developed for BAT V5 Application Profile.						
XML Level 1	dod-ebts:VendorSoftware					Cardinality	0...1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.858_0

Vendor Software

Subfields: Repeating sets of information items

Mnemonic	SOFT_VEN_0				Conditionality	M↑	
					Status	Emerging	
Description	Repeating subfield for Vendor Software.						
Field Min	n/a				Occur Min	1	
Field Max	n/a				Occur Max	99	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	EBTS 4.0						
XML Level 1	dod-ebts:VendorSoftware					Cardinality	1..99
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.858_1

Vendor Software

Software Vendor Name

Mnemonic	SOFT_VEN_1				Conditionality	M↑		
					Status	Emerging		
Description	The name of the software vendor e.g. Microsoft.							
Field Min	1				Occur Min	1		
Field Max	50				Occur Max	1		
Char Types	U				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	Developed for BAT V5 Application Profile.							
XML Level 1	dod-ebts:VendorSoftware					Cardinality	1..1	
XML Level 2	dod-ebts:SoftwareVendorNameText					Cardinality	1..1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.858_2

Vendor Software

Software Application Name

Mnemonic	SOFT_VEN_2			Conditionality	O		
				Status	Emerging		
Description	The name of the software application e.g. Excel.						
Field Min	1			Occur Min	1		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for BAT V5 Application Profile.						
XML Level 1	dod-ebts:VendorSoftware				Cardinality	0..1	
XML Level 2	nc:SoftwareName				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.858_3

Vendor Software

Software Application Version Number

Mnemonic	SOFT_VEN_3			Conditionality	O		
				Status	Emerging		
Description	The number that specifies the software vendor application version number. May consist the Major, Minor, Revision and Build number the vendor assigned to the application.						
Field Min	1			Occur Min	1		
Field Max	255			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for BAT V5 Application Profile.						
XML Level 1	dod-ebts:VendorSoftware				Cardinality	0..1	
XML Level 2	nc:softwareVersionText				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.859

Biometric Subject Previous Residence

Mnemonic	SUBJ_PREV_RESIDE			Conditionality	0		
				Status	Emerging		
Description	The addresses of the previous residence of the biometric subject.						
Field Min				Occur Min	0		
Field Max				Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for BAT V5 Application Profile.						
XML Level 1	dod-ebts:BiometricSubjectPreviousResidence				Cardinality	PersonPreviousResidenceLoca tion	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.859_1

Biometric Subject Previous Residence

Address Line 1

Mnemonic	SUBJ_PREV_RESIDE_1			Conditionality	O		
				Status	Emerging		
Description	The street, including both number and name.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for BAT V5 Application Profile.						
XML Level 1	dod-ebts:BiometricSubjectPreviousResidence				Cardinality	0...1	
XML Level 2	nc:StreetFullText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.859_2

Biometric Subject Previous Residence

Address Line 2

Mnemonic	SUBJ_PREV_RESIDE_2			Conditionality	O		
				Status	Emerging		
Description	Additional information about the street e.g. apt #.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for BAT V5 Application Profile.						
XML Level 1	dod-ebts:BiometricSubjectPreviousResidence				Cardinality	0...1	
XML Level 2	nc:StreetFullText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.859_3

Biometric Subject Previous Residence

City

Mnemonic	SUBJ_PREV_RESIDE_3			Conditionality	O		
				Status	Emerging		
Description	Name of the city.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for BAT V5 Application Profile.						
XML Level 1	dod-ebts:BiometricSubjectPreviousResidence				Cardinality	0...1	
XML Level 2	nc:LocationCityName				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.859_4

Biometric Subject Previous Residence

State / Province

Mnemonic	SUBJ_PREV_RESIDE_4			Conditionality	O		
				Status	Emerging		
Description	The state, province or subdivision of a location.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for BAT V5 Application Profile.						
XML Level 1	dod-ebts:BiometricSubjectPreviousResidence				Cardinality	0...1	
XML Level 2	nc:LocationStateName				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.859_5

Biometric Subject Previous Residence

Country Code

Mnemonic	SUBJ_PREV_RESIDE_5				Conditionality	0		
					Status	Emerging		
Description	The GENC alpha3 country code. The DoD EBTS 4.0 default for this field is the GENC three character alpha codelist (genc:CountryAlpha3CodeType).							
Field Min	3				Occur Min	0		
Field Max	3				Occur Max	1		
Char Types	A				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	Developed for BAT V5 Application Profile.							
XML Level 1	dod-ebts:BiometricSubjectPreviousResidence					Cardinality	0...1	
XML Level 2	nc:LocationCountryGENCCode					Cardinality	0..1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.859_6

Biometric Subject Previous Residence

Postal Code

Mnemonic	SUBJ_PREV_RESIDE_6			Conditionality	O		
				Status	Emerging		
Description	Alphanumeric code assigned to groups of addresses by various national postal systems throughout the world.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	ANS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for BAT V5 Application Profile.						
XML Level 1	dod-ebts:BiometricSubjectPreviousResidence				Cardinality	0...1	
XML Level 2	nc:LocationPostalCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.859_7

Biometric Subject Previous Residence

Neighborhood / District

Mnemonic	SUBJ_PREV_RESIDE_7				Conditionality	0		
					Status	Emerging		
Description	A geographically localized community within a larger city, town or suburb.							
Field Min	1				Occur Min	0		
Field Max	50				Occur Max	1		
Char Types	U				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	Developed for BAT V5 Application Profile.							
XML Level 1	dod-ebts:BiometricSubjectPreviousResidence					Cardinality	0...1	
XML Level 2	nc:LocaleNeighborhoodName					Cardinality	0..1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.859_8

Biometric Subject Previous Residence

Village

Mnemonic	SUBJ_PREV_RESIDE_8			Conditionality	0		
				Status	Emerging		
Description	Small population unit, typically rural, held together by common economic and political ties.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for BAT V5 Application Profile.						
XML Level 1	dod-ebts:BiometricSubjectPreviousResidence				Cardinality	0...1	
XML Level 2	dod-ebts:LocationVillageName				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.859_9

Biometric Subject Previous Residence

Address Validity

Mnemonic	SUBJ_PREV_RESIDE_9			Conditionality	0		
				Status	Emerging		
Description	This field defines the validity of the address information.						
Field Min	3			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	VALIDITY CODES						
Source	Developed for BAT V5 Application Profile.						
XML Level 1	dod-ebts:BiometricSubjectPreviousResidence				Cardinality	0...1	
XML Level 2	dod-ebts:LocationAddressValidityCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.859_10

Biometric Subject Previous Residence

Start Date

Mnemonic	SUBJ_PREV_RESIDE_10			Conditionality	0		
				Status	Emerging		
Description	The date that the subject began residing at this address.						
Field Min	Encoding Specific			Occur Min	0		
Field Max	Encoding Specific			Occur Max	1		
Char Types	N			Special Chars			
Format	YYYYMMDD			Constraints	n/a		
Code List							
Source	Developed for BAT V5 Application Profile.						
XML Level 1	dod-ebts:BiometricSubjectPreviousResidence				Cardinality	0...1	
XML Level 2	nc:StartDate/nc:Date				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.859_11

Biometric Subject Previous Residence

End Date

Mnemonic	SUBJ_PREV_RESIDE_11				Conditionality	O			
					Status	Emerging			
Description	The date that the subject ceased to reside at this address.								
Field Min	Encoding Specific				Occur Min	0			
Field Max	Encoding Specific				Occur Max	1			
Char Types	N				Special Chars				
Format	YYYYMMDD				Constraints	n/a			
Code List									
Source	Developed for BAT V5 Application Profile.								
XML Level 1	dod-ebts:BiometricSubjectPreviousResidence					Cardinality	0...1		
XML Level 2	nc:EndDate/nc:Date					Cardinality	0..1		
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

2.201

Number of Images Requested

Mnemonic	NIR		Conditionality	O	
			Status	Emerging	
Description	This optional field contains the number of maximum candidate images the submitter desires to receive in response to a biometric Investigative search request for a given candidate list. If multiple candidate lists are to be returned the NIR value applies to each. If NIR is omitted in a biometric investigative search request, it defaults to 20. This field is also found in the responses to a biometric Investigative search where it reflects the actual number of candidates with image returned in the CNL field for the entire concatenated list.				
Field Min	1		Occur Min	0	
Field Max	2		Occur Max	1	
Char Types	N		Special Chars		
Format	n/a		Constraints	n/a	
Code List					
Source	NGI-DOC-01078-10.0				
XML Level 1	fbi-ebts:RecordImagesRequestedQuantity			Cardinality	0...1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

2.2022Contributor Assigned Identification Number

Mnemonic	CIDN	Conditionality	0
		Status	Emerging
Description	This field is the unique number assigned to a single biographic search by the contributor. This field shall contain ten bytes of alphanumeric data. This is a field in a Type-2 biographic search request EQHR.		
Field Min	10	Occur Min	0
Field Max	10	Occur Max	1
Char Types	AN	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionActivity	Cardinality	0...1
XML Level 2	fbi-ebts:ContributorAssignedIdentificationNumber/nc:IdentificationID	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2023Supplementary Identity Information

Mnemonic	SII	Conditionality	0
		Status	Emerging
Description	This field will contain identity information not within the scope of the standard NGI Identity History Summary. The format and content of the information in this field may vary for different transactions.		
Field Min	4	Occur Min	0
Field Max	10000	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionResponseData(0...1)/fbi-ebts:TransactionCandidateList(0...3)	Cardinality	0...1
XML Level 3	fbi-ebts:TransactionSupplementaryIdentityInformationText	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.2024

Hit Type Indicator

Mnemonic	HTI	Conditionality	O
		Status	Emerging
Description	This field will contain a code for the type of hit that generated an unsolicited notification. In the future, a fixed list of values will be created to populate this field. This field will initially be used for the UHN TOT for RISC Notifications. The value will be "RISC" for this initial use.		
Field Min	1	Occur Min	0
Field Max	10	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	HIT TYPE		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 3	fbi-ebts:TransactionHitCategoryCode	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2028

Biometric Image Description

Mnemonic	BID	Conditionality	O
		Status	Emerging
Description	This repeating set contains information about biometric images the user is requesting in the submission. Each repeating set consists of the following subfields: 1. UCN of the identity or latent record, 2. IMT image type of the image to be retrieved, 3. BSI of the biometric set to be retrieved, 4. FNR is the fingerprint or palmprint position code of the image to be retrieved, 5. PPD of the supplemental image to be retrieved, E. PPD of the supplemental image to be retrieved when FNR equals supplemental. F. POS of a face image, G. SMT code for a scar, mark, or tattoo image.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionBiometricImagesRequested (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:BiometricImageDescription	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.2028_0

Biometric Image Description

Subfields: Repeating sets of information items

Mnemonic	BID_0	Conditionality	O
		Status	Emerging
Description	Repeating subfield for Biometric Image Description.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	1000
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	EBTS 4.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionBiometricImagesRequested (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:BiometricImageDescription	Cardinality	0...1000
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2028_1

Biometric Image Description

FBI Number/UCN

Mnemonic	SI	Conditionality	O
		Status	Emerging
Description	SI (Subject Identifier) of the identity or latent record.		
Field Min	1	Occur Min	1
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionBiometricImagesRequested (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:BiometricImageDescription	Cardinality	0...1000
XML Level 3	j:PersonFBIIdentification/nc:IdentificationID	Cardinality	1...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2028_2Biometric Image Description*Image Type*

Mnemonic	IMT	Conditionality	M↑
		Status	Emerging
Description	The Image Type information items can be used to specify which types of biometric sets are requested. The list of IMT values to be used in an electronic latent submittal to identify the Type-7 or Type-13 records present in Biometric Image code.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	IMT = 1, 2, 3 or 4; integer
Code List	BIOMETRIC IMAGE		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionBiometricImagesRequested (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:BiometricImageDescription	Cardinality	0...1000
XML Level 3	fbi-ebts:BiometricImageCategoryCode	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2028_3Biometric Image Description*Biometric Set Identifier*

Mnemonic	BSI	Conditionality	O
		Status	Emerging
Description	Code used to identify the specific biometric set being requested. If the BSI (2.2028_3) information item is not present, the representative biometric set(s) are retrieved for the identity specified in the Subject Identifier (SI) item. The representative set for fingerprints will be a composite fingerprint set of images, while the representative set for palm prints or supplemental fingerprint and palm print will be the latest set enrolled.		
Field Min	4	Occur Min	0
Field Max	24	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	integer
Code List	BSI		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionBiometricImagesRequested (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:BiometricImageDescription	Cardinality	0...1000
XML Level 3	fbi-ebts:BiometricSetID	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2028_4

Biometric Image Description

Friction Ridge Position Requested

Mnemonic	FNR	Conditionality	O
		Status	Emerging
Description	The friction ridge number requested.		
Field Min	2	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	fingerprint or palmprint position code
Code List	FINGER POSITION CODES and PALM POSITION CODES		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionBiometricImagesRequested (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:BiometricImageDescription	Cardinality	0...1000
XML Level 3	biom_1:FrictionRidgePositionCode	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2028_5

Biometric Image Description

Print Position Descriptors

Mnemonic	PPD	Conditionality	O
		Status	Emerging
Description	This field is used to specify which Supplemental Fingerprint and Palm Print images are being requested. This PPD is a subfield to fields of Type Set. This subfield will be present if and only if the subfield Friction ridge Generalized Position code FGP or the Friction ridge Numbers Requested FNR code "19" appears in the Set field. These PPD subfields have no subfields unlike PPD 2.2030. This field shall consist of two mandatory information items. The first is the Probable Decimal finger Position code 0-10 taken from the ANSI/NIST-ITL specification. But for the finger position it must be a two character numeric; implying a leading zero for positions 0 thru 9. The second code information item is the Finger Image Code; it also is taken from the ANSI/NIST-ITL specification to indicate the portion of the EJI or tip image. There may be up to 8 such images for a single finger, but NGI only expects the values of EJI. Both the probable decimal friction ridge code and the image code are concatenated into 1 information item without any separator.		
Field Min	5	Occur Min	0
Field Max	5	Occur Max	1
Char Types	AN	Special Chars	
Format	n/a	Constraints	n/a
Code List	FINGER POSITION CODES and PALM POSITION CODES		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionBiometricImagesRequested (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:BiometricImageDescription	Cardinality	0...1000
XML Level 3	biom_1:FrictionRidgePositionCode	Cardinality	0...1
XML Level 4	fbi-ebts:PrintPositionDescriptors (0...1)/biom_1:FingerPositionCode, fbi-ebts:FingerImageCodes (1...1)	Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2028_6

Biometric Image Description

Pose Code

Mnemonic	POS	Conditionality	O
		Status	New-Emerging
Description	The POS (2.2028_6) information item specifies the subject pose code of the facial photo image to be retrieved.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionBiometricImagesRequested (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:BiometricImageDescription	Cardinality	0...1000
XML Level 3	biom_1:FacelImageSubjectPoseCode	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2028_7

Biometric Image Description

SMT Code

Mnemonic	SMT	Conditionality	O
		Status	New-Emerging
Description	SMT code for a scar, mark, or tattoo image. The SMT is required when an SMT image is to be retrieved.		
Field Min	3	Occur Min	0
Field Max	10	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	SMT DESCRIPTORS		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionBiometricImagesRequested (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:BiometricImageDescription	Cardinality	0...1000
XML Level 3	j:PhysicalFeatureCategoryCode	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2029

Biometric Set Identifier

Mnemonic	BSI			Conditionality	0		
				Status	Emerging		
Description	This numeric field will uniquely identify each biometric image set or photo, such as a facial photo, a fingerprint set, a palm print set, or a supplemental print set.						
Field Min	4			Occur Min	0		
Field Max	24			Occur Max	1000		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:BiometricSetID				Cardinality	0...1000	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2030

Print Position Descriptors

Mnemonic	PPD			Conditionality	0		
				Status	Emerging		
Description	This field will be present if and only if the finger position code "19" appears in Field 2.074. This field will consist of two mandatory information items: The first is the probable integer finger position code 0-10 taken from finger position table. The second information item is the code taken from Table P-1, found in Appendix P of NGI-DOC-01078-10.0, to indicate the portion of the EJI or tip image that is a part of the transaction.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	10		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionData				Cardinality	0...1	
XML Level 2	fbi-ebts:TransactionPrintPositionDescriptors				Cardinality	0...10	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2030_1

Print Position Descriptors

Friction Ridge Generalized Position

Mnemonic	FGP			Conditionality	M↑		
				Status	Emerging		
Description	This field is used in Record types dealing with friction ridges. It specifies which friction ridge biometric sample was collected. Use finger position code 0-10.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	0 <= FGP <= 10; integer		
Code List	FINGER COMBINATION CODES						
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionData				Cardinality	0...1	
XML Level 2	fbi-ebts:TransactionPrintPositionDescriptors				Cardinality	0...10	
XML Level 3	biom_1:FingerPositionCode				Cardinality	1...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2030_2

Print Position Descriptors

Finger Image Code

Mnemonic	FIC			Conditionality	M↑		
				Status	Emerging		
Description	A code to indicate the portion of the EJI or tip image that is a part of the transaction. See Look Up Codes for valid entries. Only EJI, TIP, FV1, FV2, FV3, FV4, PRX, DST, MED are allowed.						
Field Min	3			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	AN			Special Chars			
Format	n/a			Constraints	n/a		
Code List	PRINT POSITION DISCRIPTOR						
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionData				Cardinality	0...1	
XML Level 2	fbi-ebts:TransactionPrintPositionDescriptors				Cardinality	0...10	
XML Level 3	fbi-ebts:FingerImageCode				Cardinality	1...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2031

Biometric Image Available

Mnemonic	BIA	Conditionality	0
		Status	Emerging
Description	This field will indicate the existence of available biometric images (fingerprint, palmprint, supplemental print, facial photo, and SMT photo) for an Identity in the NGI AFIS/FBI repository. Allowable BIA values are listed in the codelist table. The following abbreviations are used in the table for each image type: FP – Fingerprint, PP – Palmprint, SP – Supplemental Print, PHF – Photo Facial, and PSMT – Photo Scar, Mark, & Tattoo.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	6
Char Types	N	Special Chars	
Format	n/a	Constraints	0 <= BIA <= 31; integer
Code List	BIA		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordSubject	Cardinality	0...1
XML Level 2	fbi-ebts:BiometricImageAvailableCode	Cardinality	0...6
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2032

Audit Trail Record

Mnemonic	ATR	Conditionality	M↑
		Status	Emerging
Description	This repeating record contains the information associated with the dissemination of the owner's images. The FNR and PPD items are present in ATR to identify the image within the biometric set that was disseminated when the entire set was not returned.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionAuditTrailRecordList	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2032_0

Audit Trail Record

Subfields: Repeating sets of information items

Mnemonic	ATR_0			Conditionality	M↑		
				Status	Emerging		
Description	Repeating subfield for Audit Trail Record.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	100		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	EBTS 4.0						
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)				Cardinality	0...1	
XML Level 2	fbi-ebts:TransactionAuditTrailRecordList				Cardinality	0...1	
XML Level 3	fbi-ebts:AuditTrailRecord				Cardinality	1...100	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2032_1

Audit Trail Record

Originating Agency Identifier

Mnemonic	ORI			Conditionality	M↑		
				Status	Emerging		
Description	The origination field shall contain the ORI identifying the agency or organization submitting the transaction.						
Field Min	9			Occur Min	1		
Field Max	9			Occur Max	1		
Char Types	AN			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)				Cardinality	0...1	
XML Level 2	fbi-ebts:TransactionAuditTrailRecordList				Cardinality	0...1	
XML Level 3	fbi-ebts:AuditTrailRecord				Cardinality	1...100	
XML Level 4	fbi-ebts:RecordReceivingAgency/nc:IdentificationID				Cardinality	1...1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2032_2

Audit Trail Record

Date of Dissemination

Mnemonic	DAT	Conditionality	O
		Status	Emerging
Description	Date the images were disseminated.		
Field Min	8	Occur Min	1
Field Max	8	Occur Max	1
Char Types	N	Special Chars	
Format	YYYYMMDD	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionAuditTrailRecordList	Cardinality	0...1
XML Level 3	fbi-ebts:AuditTrailRecord	Cardinality	1...100
XML Level 4	fbi-ebts:RecordDisseminationDate/nc:Date	Cardinality	1...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2032_3

Audit Trail Record

TOT of Dissemination

Mnemonic	TOT	Conditionality	O
		Status	Emerging
Description	TOT used to acquire the image set.		
Field Min	3	Occur Min	1
Field Max	5	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionAuditTrailRecordList	Cardinality	0...1
XML Level 3	fbi-ebts:AuditTrailRecord	Cardinality	1...100
XML Level 4	fbi-ebts:RecordTransactionCategoryCode	Cardinality	1...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2032_4

Audit Trail Record

Biometric Set Identifier Disseminated

Mnemonic	BSI	Conditionality	O
		Status	Emerging
Description	BSI of the image disseminated.		
Field Min	4	Occur Min	0
Field Max	24	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionAuditTrailRecordList	Cardinality	0...1
XML Level 3	fbi-ebts:AuditTrailRecord	Cardinality	1...100
XML Level 4	fbi-ebts:BiometricSetID	Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2032_5

Audit Trail Record

Image Type Disseminated

Mnemonic	IMT	Conditionality	O
		Status	Emerging
Description	Type of image disseminated.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List	BIOMETRIC IMAGE		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionAuditTrailRecordList	Cardinality	0...1
XML Level 3	fbi-ebts:AuditTrailRecord	Cardinality	1...100
XML Level 4	fbi-ebts:BiometricImageCategoryCode	Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2032_6

Audit Trail Record

Friction Ridge Position Requested

Mnemonic	FNR	Conditionality	O
		Status	Emerging
Description	The friction ridge number requested.		
Field Min	2	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	Fingerprint and Palmprint position codes
Code List	FINGER POSITION		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionAuditTrailRecordList	Cardinality	0...1
XML Level 3	fbi-ebts:AuditTrailRecord	Cardinality	1...100
XML Level 4	biom_1:FrictionRidgePositionCode	Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2032_7

Audit Trail Record

Print Position Descriptors

Mnemonic	PPD	Conditionality	O
		Status	Emerging
Description	This PPD is an information item included within other fields. This item will be present if and only if the Friction ridge Generalized Position code (FGP) or the Friction ridge Number(s) Requested (FNR) code (19) appears in the field. These instances of PPD shall consist of a string containing two mandatory pieces of information. The first is the Probable Decimal finger Position code (0-10) taken from the ANSI/NIST-ITL specification. The finger position must include a leading zero for positions 0 through 9. Both the probable decimal friction ridge code and the image code are concatenated into 1 information item without any separator.		
Field Min	5	Occur Min	0
Field Max	5	Occur Max	1
Char Types	AN	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionAuditTrailRecordList	Cardinality	0...1
XML Level 3	fbi-ebts:AuditTrailRecord	Cardinality	1...100
XML Level 4	fbi-ebts:PrintPositionDescriptors/biom_2:FingerPositionCode(1...1), fbi-ebts:PrintPositionDescriptors/fbi-ebts:FingerImageCode(1...1)	Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2032_8

Audit Trail Record

Subject Pose

Mnemonic	POS	Conditionality	O
		Status	New-Emerging
Description	POS of facial image.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionAuditTrailRecordList	Cardinality	0...1
XML Level 3	fbi-ebts:AuditTrailRecord	Cardinality	1...100
XML Level 4	biom_1:FacelImageSubjectPoseCode	Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2032_9

Audit Trail Record

NCIC SMT Code

Mnemonic	SMT	Conditionality	O
		Status	New-Emerging
Description	SMT code of SMT images.		
Field Min	3	Occur Min	0
Field Max	10	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	SMT DESCRIPTORS		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionAuditTrailRecordList	Cardinality	0...1
XML Level 3	fbi-ebts:AuditTrailRecord	Cardinality	1...100
XML Level 4	nc:PhysicalFeatureCategoryCode	Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2033

Candidate Investigative List

Mnemonic	CNL / CAN	Conditionality	0
		Status	Emerging
Description	This field is added to the Investigative search response TOTs, providing a candidate list that supports a multi-biometric type and multi-event repository. The legacy CAN field in the SRL is still supported as well for Fingerprint-only candidate lists. It is possible for the CNL to contain multiple ranked lists concatenated together due to multiple biometric types being searched. For friction ridge, NGI supports three biometric types for a latent investigative search: fingerprint, upper-palm, and lower-palm. Therefore, an SRL can contain one, two, or three ranked lists where the number of candidates in each list is determined by the NCR from the request. Therefore, the maximum number of candidates for an SRL is 3 x NCR. When multiple biometric types are searched, a maximum of NIR images are returned for each type. Therefore, the maximum number of images for an SRL is 3 x NIR. Multiple candidates in traditional encoding will be separated by the {RS} separator.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)		Cardinality 0...1
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2033_0

Candidate Investigative List

Subfields: Repeating sets of information items

Mnemonic	CNL_0 / CAN_0	Conditionality	M↑
		Status	Emerging
Description	Repeating subfield for Candidate Investigative List.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	3
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	EBTS 4.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)		Cardinality 0...1
XML Level 2	fbi-ebts:TransactionCandidateList		Cardinality 0...3
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2033_1

Candidate Investigative List

FBI Number/UCN

Mnemonic	SI	Conditionality	M↑
		Status	Emerging
Description	The FBI or UCN number assigned by FBI.		
Field Min	1	Occur Min	1
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	integer
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionCandidateList	Cardinality	0...3
XML Level 3	fbi-ebts:Candidate	Cardinality	1...99
XML Level 4	j:PersonFBIIdentification/nc:IdentificationID	Cardinality	1...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2033_2

Candidate Investigative List

Master Name

Mnemonic	NAM	Conditionality	0
		Status	Emerging
Description	Indicates the name of the subject.		
Field Min	3	Occur Min	0
Field Max	50	Occur Max	1
Char Types	AS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionCandidateList	Cardinality	0...3
XML Level 3	fbi-ebts:Candidate	Cardinality	1...99
XML Level 4	fbi-ebts:PersonName (0...1), nc:PersonGivenName (0...1), nc:PersonMiddleName(0...1), nc:PersonSurName (1...1)	Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2033_3

Candidate Investigative List

Biometric Set Identifier

Mnemonic	BSI			Conditionality	0		
				Status	Emerging		
Description	This numeric field will uniquely identify a fingerprint set, palmprint set, or a supplemental print set.						
Field Min	4			Occur Min	0		
Field Max	24			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	integer		
Code List	BID						
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)				Cardinality	0...1	
XML Level 2	fbi-ebts:TransactionCandidateList				Cardinality	0...3	
XML Level 3	fbi-ebts:Candidate				Cardinality	1...99	
XML Level 4	fbi-ebts:BiometricSetID				Cardinality	0...1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2033_4

Candidate Investigative List

Image Type

Mnemonic	IMT			Conditionality	0		
				Status	Emerging		
Description	This field identifies the type of image e.g., palmprints, toe prints included in an electronic submittal. The list of IMT values to be used in an electronic latent submittal to identify the Type-7 or Type-13 records present [is listed in the look up codes below].						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List	BIOMETRIC IMAGE						
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)				Cardinality	0...1	
XML Level 2	fbi-ebts:TransactionCandidateList				Cardinality	0...3	
XML Level 3	fbi-ebts:Candidate				Cardinality	1...99	
XML Level 4	fbi-ebts:RecordBiometricImageCategoryCode				Cardinality	0...1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2033_5

Candidate Investigative List

Friction Ridge Generalized Position

Mnemonic	FGP	Conditionality	O
		Status	Emerging
Description	This field is used in Record types dealing with friction ridges. It specifies which friction ridge biometric sample was collected.		
Field Min	2	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	1 <= FGP <= 19 or FGP = 33 or 36 or 40 <= FGP <= 50; integer
Code List	FINGER COMBINATION		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionCandidateList	Cardinality	0...3
XML Level 3	fbi-ebts:Candidate	Cardinality	1...99
XML Level 4	biom_1:FrictionRidgePositionCode	Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2033_6

Candidate Investigative List

Print Position Descriptors [Type-2, subfield to fields of Type Set]

Mnemonic	PPD	Conditionality	O
		Status	Emerging
Description	This PPD is an information item included within other fields. This item will be present if and only if the Friction ridge Generalized Position code (FGP) or the Friction ridge Number(s) Requested (FNR) code (19) appears in the field. These instances of PPD shall consist of a string containing two mandatory pieces of information. The first is the Probable Decimal finger Position code (0-10) taken from the ANSI/NIST-ITL specification. The finger position must include a leading zero for positions 0 through 9. Both the probable decimal friction ridge code and the image code are concatenated into 1 information item without any separator.		
Field Min	5	Occur Min	0
Field Max	5	Occur Max	1
Char Types	AN	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionCandidateList	Cardinality	0...3
XML Level 3	fbi-ebts:Candidate	Cardinality	1...99
XML Level 4	fbi-ebts:PrintPositionDescriptors(0...1)/biom_1:FingerPositionCode (1...1), fbi-ebts:PrintPositionDescriptors(0...1)/fbi-ebts:FingerImageCode (1...1)	Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2033_7

Candidate Investigative List

Match Score

Mnemonic	MSC			Conditionality	O		
				Status	Emerging		
Description	This field contains the match score from AFIS for each candidate listed in the 2.064 CAN field.						
Field Min	1			Occur Min	0		
Field Max	6			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)				Cardinality	0...1	
XML Level 2	fbi-ebts:TransactionCandidateList				Cardinality	0...3	
XML Level 3	fbi-ebts:Candidate				Cardinality	1...99	
XML Level 4	fbi-ebts:CandidateMatchScoreValue				Cardinality	0...1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2033_8

Candidate Investigative List

Biometric Image Available

Mnemonic	BIA			Conditionality	O		
				Status	Emerging		
Description	This field will indicate the existence of available biometric images fingerprint, palmprint, supplemental print, facial photo, and SMT photo for an Identity in the NGI AFIS/FBI repository. Allowable BIA values are shown in the table below. The following abbreviations are used in the table for each image type: FP – Fingerprint, PP – Palmprint, SP – Supplemental Print, PHF – Photo Facial, and PSMT – Photo Scar, Mark, & Tattoo. integer						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	<= BIA <= 31		
Code List	BIA						
Source	NGI-DOC-01078-10.0						
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)				Cardinality	0...1	
XML Level 2	fbi-ebts:TransactionCandidateList				Cardinality	0...3	
XML Level 3	fbi-ebts:Candidate				Cardinality	1...99	
XML Level 4	fbi-ebts:BiometricImageAvailableCode				Cardinality	0...6	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2033_9

Candidate Investigative List

Name of Designated Repository

Mnemonic	NDR		Conditionality	O	
			Status	Emerging	
Description	This field contains the numerical designation of the repository to be searched. Repository numbers are assigned by the CJIS Division. Multiple entries in this field will indicate a desire to search more than one repository.				
Field Min	1		Occur Min	0	
Field Max	400		Occur Max	1	
Char Types	N		Special Chars		
Format	n/a		Constraints	n/a	
Code List	DESIGNATED REPOSITORY NAME				
Source	NGI-DOC-01078-10.0				
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)			Cardinality	0...1
XML Level 2	fbi-ebts:TransactionCandidateList			Cardinality	0...3
XML Level 3	fbi-ebts:Candidate			Cardinality	1...99
XML Level 4	fbi-ebts:RecordFBIRepositoryCodenc:IdentificationID			Cardinality	0...100
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

2.2033_10

Candidate Investigative List

Information Designation Character

Mnemonic	IDC	Conditionality	O
		Status	Emerging
Description	The value of the IDC shall be a sequentially assigned positive integer starting from zero and incremented by one up to a maximum of 99. IDC references are stated in Type-1 Field 1.003 Transaction content (CNT) and shall be used to relate information items in the CNT field of the Type-1 record to the other records in the transaction. Two or more records may share a single IDC solely to identify and link together records that pertain to different representations of the same biometric trait.		
Field Min	2	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	0 < IDC < 99; integer
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)		Cardinality 0...1
XML Level 2	fbi-ebts:TransactionCandidateList		Cardinality 0...3
XML Level 3	fbi-ebts:Candidate		Cardinality 1...99
XML Level 4	biom_1:ImageReferenceIdentification/nc:IdentificationID		Cardinality 0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2033_11

Candidate Investigative List

Note Field

Mnemonic	NOT	Conditionality	0
		Status	Emerging
Description	NOT provides owning ORI information when no image is available for candidate		
Field Min	1	Occur Min	0
Field Max	1000	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)		Cardinality 0...1
XML Level 2	fbi-ebts:TransactionCandidateList		Cardinality 0...3
XML Level 3	fbi-ebts:Candidate		Cardinality 1...99
XML Level 4	fbi-ebts:ORIPointOfContactText		Cardinality 0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2033_12

Candidate Investigative List

Subject Pose

Mnemonic	POS	Conditionality	0
		Status	New-Emerging
Description	A pose of a subject.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)		Cardinality 0...1
XML Level 2	fbi-ebts:TransactionCandidateList		Cardinality 0...3
XML Level 3	fbi-ebts:Candidate		Cardinality 1...99
XML Level 4	biom_1:FacedImageSubjectPoseCode		Cardinality 0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.2033_13

Candidate Investigative List

SMT Code

Mnemonic	SMT	Conditionality	O
		Status	New-Emerging
Description	SMT provides SMT codes for SMT images.		
Field Min	3	Occur Min	0
Field Max	10	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List	SMT DESCRIPTORS		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData (0...1)/fbi-ebts:TransactionResponseData (0...1)	Cardinality	0...1
XML Level 2	fbi-ebts:TransactionCandidateList	Cardinality	0...3
XML Level 3	fbi-ebts:Candidate	Cardinality	1...99
XML Level 4	nc:PhysicalFeatureCategoryCode	Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.2034

Unsolved Latent Retained

Mnemonic	ULR	Conditionality	O
		Status	Emerging
Description	This field is used in a Biometric Decision BDEC when the decision is a positive identification and the user requests that the unsolved record is to be retained in the unsolved file. A value of "Y" indicates that the latent record should be retained in the ULF. No value or a value of "N" indicates that the user does not want the unsolved record retained.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	ULR = Y or N
Code List	Y - Yes or N = No		
Source	NGI-DOC-01078-10.0		
XML Level 1	fbi-ebts:RecordTransactionData	Cardinality	0..1
XML Level 2	fbi-ebts:TransactionUnsolvedLatentFileIndicator	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8003

Biometric Subject Birth Date

Mnemonic	SUBJ_BIRTHDATE				Conditionality	0	
					Status	Active	
Description	The biometric subject's complete date of birth.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonBirthDate					Cardinality	0..1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8003_0

Biometric Subject Birth Date

Subfields: Repeating sets of information items

Mnemonic	SUBJ_BIRTHDATE_0				Conditionality	0	
					Status	New-Active	
Description	Repeating subfield for Biometric Subject Birth Date.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	5	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	EBTS 4.0						
XML Level 1	dod-ebts:PersonBirthDate					Cardinality	0...5
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8003_1

Biometric Subject Birth Date

Birth Date

Mnemonic	DOB	Conditionality	M↑
		Status	Active
Description	The 8 digit calendar date for the person's birth date. Pad any portion of the date with zero's when unknown or not used. For example, 00000000 when the field is mandatory, but the date is unknown. 20100000 when the year is known but month and day are unknown or not used.		
Field Min	Dependent on Encoding	Occur Min	0
Field Max	Dependent on Encoding	Occur Max	1
Char Types	ANS	Special Chars	
Format	YYYYMMDD	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonBirthDate	Cardinality	0...5
XML Level 2	dod-ebts:PersonBirthDate/nc:Date	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8003_2

Biometric Subject Birth Date

Date Validity

Mnemonic	DATEVLD	Conditionality	0
		Status	Active
Description	This field defines the validity of the date. When any part of the date value is padded with zero's, the date validity shall be set to 'EST' for estimated.		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	See Look Up Codes
Code List	VALIDITY CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonBirthDate	Cardinality	0...5
XML Level 2	dod-ebts:DateValidityCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8003_3

Biometric Subject Birth Date

Calendar Type

Mnemonic	CALTYP	Conditionality	O
		Status	Active
Description	The type of calendar the date is being specified in e.g. Gregorian and Islamic.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	See Look Up Codes
Code List	CALENDAR TYPE CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonBirthDate	Cardinality	0...5
XML Level 2	dod-ebts:CalendarCategoryCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8005

Biometric Subject Death Date

Mnemonic	SUBJ_DEATHDATE	Conditionality	O
		Status	Active
Description	The biometric subject's complete date of death. Pad any portion of the date with zero's when unknown or not used. For example, 00000000 when the field is mandatory, but the date is unknown. 20100000 when the year is known but month and day are unknown or not used.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonDeathDate	Cardinality	0...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8005_1

Biometric Subject Death Date

Death Date

Mnemonic	DOD	Conditionality	M↑
		Status	Active
Description	The 8 digit calendar date for the person's death date. Dependent on Profile		
Field Min	Dependent on Encoding	Occur Min	1
Field Max	Dependent on Encoding	Occur Max	1
Char Types	ANS	Special Chars	
Format	YYYYMMDD	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonDeathDate	Cardinality	0...1
XML Level 2	nc:PersonDeathDate/nc:Date	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8005_2

Biometric Subject Death Date

Date Validity

Mnemonic	DATEVLD	Conditionality	0
		Status	Active
Description	This field defines the validity of the date.		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	See Look Up Codes
Code List	VALIDITY CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonDeathDate	Cardinality	0...1
XML Level 2	dod-ebts:CalendarValidCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8005_3

Biometric Subject Death Date

Calendar Type

Mnemonic	CALTYP			Conditionality	O		
				Status	Active		
Description	The type of calendar the date is being specified in e.g. Gregorian and Islamic.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	See Look Up Codes		
Code List	CALENDAR TYPE CODES						
Source	BSWG						
XML Level 1	dod-ebts:PersonDeathDate				Cardinality	0...1	
XML Level 2	dod-ebts:CalendarCategoryCode				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8007

Biometric Subject Citizenship

Mnemonic	SUBJ_CTZ				Conditionality	O			
					Status	Active			
Description	The country of which the biometric subject is a citizen. GENC alpha3 country codes are used. The DoD EBTS 4.0 default for this field is the GENC three character alpha codelist (genc:CountryAlpha3CodeType).								
Field Min	3				Occur Min	0			
Field Max	3				Occur Max	1			
Char Types	A				Special Chars				
Format					Constraints	n/a			
Code List									
Source	BSWG								
XML Level 1	nc:PersonCitizenship				Cardinality	0...5			
XML Level 2	nc:LocationCountryGENCCode				Cardinality	0...1			
XML Level 3					Cardinality				
XML Level 4					Cardinality				
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes		

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8008

Biometric Subject Ethnic/Racial Characteristic

Mnemonic	SUBJ_RAC			Conditionality	O		
				Status	Active		
Description	The observed or reported ethnic/racial physical characteristic of the biometric subject. Code Mappings from DoD EBTS 3.0 to/from FBI EBTS 9.3. DoD Field 2.8008 Biometric Subject Ethnic/Racial Characteristic map to FBI Field 2.025 Race: A <-> A B <-> B I <-> I W <-> W U <-> U P I -> A HL -> W AR -> U AI -> A AS -> A NA -> I XX -> U						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	3		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	ETHNIC/RACIAL CODES						
Source	BSWG						
XML Level 1	dod-ebts:PersonEthnicRacialCharacteristicCode				Cardinality	0...3	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8013

Biometric Subject Blood Type

Mnemonic	SUBJ_BLOOD				Conditionality	0	
					Status	Active	
Description	The blood type of the biometric subject. It consists of Blood Type Value and Blood Type Validity.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonBloodGroup					Cardinality	0...1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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2.8013_0

Biometric Subject Blood Type

Subfields: Repeating sets of information items

Mnemonic	SUBJ_BLOOD_0				Conditionality	0		
					Status	New-Active		
Description	Repeating subfield for Biometric Subject Blood Type.							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	3		
Char Types	n/a				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	EBTS 4.0							
XML Level 1	dod-ebts:PersonBloodGroup					Cardinality	0...3	
XML Level 2						Cardinality		
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.8013_1

Biometric Subject Blood Type

Blood Type Code

Mnemonic	BLTCD			Conditionality	M↑		
				Status	Active		
Description	The biometric subject's blood type/classification. Notes: Any of the four main types into which human blood is divided: A, B, AB, and O. Blood types are based on the presence or absence of specific antigens on red blood cells. Also called blood group.						
Field Min	4			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	See Look Up Codes		
Code List	BLOOD TYPE CODES						
Source	BSWG						
XML Level 1	dod-ebts:PersonBloodGroup				Cardinality	0...3	
XML Level 2	j:PersonBloodTypeCodeType				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8013_2Biometric Subject Blood Type*Blood Type Validity*

Mnemonic	BLTVLD	Conditionality	O
		Status	Active
Description	This field defines the validity of the biometric subject blood type.		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	See Look Up Codes
Code List	VALIDITY CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonBloodGroup	Cardinality	0...3
XML Level 2	dod-ebts:PersonBloodTypeValidityCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8014Biometric Subject Vital Status

Mnemonic	SUBJ_VITAL_0	Conditionality	O
		Status	Active
Description	The set of fields to indicate the condition of the biometric subject at the time of biometric sample collection.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonVitalStatus	Cardinality	0...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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2.8014_0

Biometric Subject Vital Status

Subfields: Repeating sets of information items

Mnemonic	SUBJ_VITAL				Conditionality	0			
					Status	New-Active			
Description	Repeating subfield for Biometric Subject Vital Status.								
Field Min	n/a				Occur Min	0			
Field Max	n/a				Occur Max	3			
Char Types	n/a				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	EBTS 4.0								
XML Level 1	dod-ebts:PersonVitalStatus					Cardinality	0...3		
XML Level 2						Cardinality			
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

2.8014_1

Biometric Subject Vital Status

Vital Status Validity

Mnemonic	VSVLD			Conditionality	M↑		
				Status	Active		
Description	This field defines the validity of the vital status of the biometric subject.						
Field Min	3			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	VALIDITY CODES						
Source	BSWG						
XML Level 1	dod-ebts:PersonVitalStatus				Cardinality	0...3	
XML Level 2	dod-ebts:PersonVitalValidityCode				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8014_2

Biometric Subject Vital Status

Vital Status Code

Mnemonic	VSCD	Conditionality	O
		Status	Active
Description	The condition alive, dead of the biometric subject at the time of biometric sample collection. This field should be used only when taking biometric sample of the subject and not for latent sample.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	SUBJECT STATUS CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonVitalStatus	Cardinality	0...3
XML Level 2	dod-ebts:PersonVitalCode	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8016

Biometric Subject Marital Status

Mnemonic	SUBJ_MARITAL	Conditionality	O
		Status	Active
Description	Marital status of the biometric subject.		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	MARITAL STATUS CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonMaritalStatusCode	Cardinality	0...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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2.8019

Collected Identification

Mnemonic	COL_IDENT				Conditionality	0	
					Status	Active	
Description	Information about an identification issued by an agency. It is a set of fields that consists of Identification Type, Identification Identifier, Issuance Organization, Issuance Office, Issuance Date, Expiration Date, and Comment.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	BSWG						
XML Level 1	dod-ebts:CollectedIdentification					Cardinality	0...1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8019_0

Collected Identification

Subfields: Repeating sets of information items

Mnemonic	COL_IDENT_0				Conditionality	0	
					Status	New-Active	
Description	Repeating subfield for Collected Identification.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	100	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	EBTS 4.0						
XML Level 1	dod-ebts:CollectedIdentification					Cardinality	0...100
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8019_1

Collected Identification

Collected Identification Type

Mnemonic	CITYP	Conditionality	O
		Status	Active
Description	The category of the collected identification, such as passport, employee id, and internment serial number.		
Field Min	2	Occur Min	0
Field Max	6	Occur Max	4
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	IDENTIFICATION CODES		
Source	BSWG		
XML Level 1	dod-ebts:CollectedIdentification	Cardinality	0...100
XML Level 2	dod-ebts:CollectedIdentificationTypeCode	Cardinality	0..4
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8019_2

Collected Identification

Collected Identification Identifier

Mnemonic	CIID	Conditionality	O
		Status	Active
Description	The identifying value for the issued identification. Examples include passport number, ssn, or drivers license number. This field is free form text.		
Field Min	1	Occur Min	0
Field Max	100	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectedIdentification	Cardinality	0...100
XML Level 2	nc:PersonOtherIdentification/nc:IdentificationID	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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2.8019_3

Collected Identification

Collected Identification Issuance Organization

Mnemonic	CII	Conditionality	O
		Status	Active
Description	The organization or system that issued the identification collected. This field is free form text and contains values such as "US Government", a country name, a state name, an agency name.		
Field Min	1	Occur Min	0
Field Max	100	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectedIdentification	Cardinality	0...100
XML Level 2	nc:OrganizationName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8019_4

Collected Identification

Collected Identification Issuance Date

Mnemonic	CISSDT	Conditionality	O
		Status	Active
Description	The date when the collected identification was issued.		
Field Min	Encoding Specific	Occur Min	0
Field Max	Encoding Specific	Occur Max	1
Char Types	ANS	Special Chars	
Format	YYYYMMDD	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectedIdentification	Cardinality	0...100
XML Level 2	nc:IdentificationEffectiveDate/nc:Date	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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2.8019_5

Collected Identification

Collected Identification Expiration Date

Mnemonic	CIEXPDT	Conditionality	O
		Status	Active
Description	The date the issued identification expires.		
Field Min	Encoding Specific	Occur Min	0
Field Max	Encoding Specific	Occur Max	1
Char Types	ANS	Special Chars	
Format	YYYYMMDD	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectedIdentification	Cardinality	0...100
XML Level 2	nc:IdentificationExpirationDate/nc:Date	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8019_6

Collected Identification

Collected Identification Issuance Office

Mnemonic	CISSOFF	Conditionality	O
		Status	Active
Description	A location or branch identifier for the office or system which issued the identification. This field is free form text. E.G. The location where the biometric subject receives their card after verification.		
Field Min	1	Occur Min	0
Field Max	100	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectedIdentification	Cardinality	0...100
XML Level 2	dod-ebts:IdentificationIssuranceOfficeText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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2.8019_7

Collected Identification

Collected Identification Comment

Mnemonic	CICOM	Conditionality	O
		Status	Active
Description	The notes and comments concerning the issued identification collected.		
Field Min	1	Occur Min	0
Field Max	250	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectedIdentification	Cardinality	0...100
XML Level 2	nc:CommentText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8021

Biometric Subject Clearance

Mnemonic	SUBJ_CLEAR	Conditionality	O
		Status	Active
Description	The set of fields to indicate the biometric subject clearance level and validity.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonSecurityClearance	Cardinality	0...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8021_1Biometric Subject Clearance*Clearance Code*

Mnemonic	CLRCD	Conditionality	M↑
		Status	Active
Description	The clearance level that the biometric subject claims to have. This field is not authoritative.		
Field Min	0	Occur Min	1
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	CLEARANCE CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonSecurityClearance	Cardinality	0...1
XML Level 2	dod-ebts:ClearanceCategoryCode	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8021_2Biometric Subject Clearance*Clearance Validity*

Mnemonic	CLRVLD	Conditionality	0
		Status	Active
Description	The state or quality of being valid of the clearance level that the biometric subject claims to hold.		
Field Min	0	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	VALIDITY CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonSecurityClearance	Cardinality	0...1
XML Level 2	dod-ebts:ClearanceValidityCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8022**Biometric Subject Compartments**

Mnemonic	SUBJ_COMPART				Conditionality	0	
					Status	Active	
Description	A freeform text to describe the compartments or section of information that might bear special community controls and might require restricted handling that the biometric subject claims to be cleared for.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	50	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonCompartment					Cardinality	0...50
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8022_1**Biometric Subject Compartments*****Compartment Description***

Mnemonic	CMPDESC			Conditionality	M↑		
				Status	Active		
Description	A freeform text to describe the compartments or section of information that might bear special community controls and might require restricted handling that the biometric subject claims to be cleared for.						
Field Min	1			Occur Min	1		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonCompartment				Cardinality	0...50	
XML Level 2	dod-ebts:PersonCompartmentValueText				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8022_2Biometric Subject Compartments*Compartments Validity*

Mnemonic	CMPVLD				Conditionality	0	
					Status	Active	
Description	The state or quality of being valid for the compartments that the biometric subject claims to hold.						
Field Min	3				Occur Min	0	
Field Max	3				Occur Max	1	
Char Types	A				Special Chars		
Format	n/a				Constraints	n/a	
Code List	VALIDITY CODES						
Source	BSWG						
XML Level 1	dod-ebts:PersonCompartment				Cardinality	0...50	
XML Level 2	dod-ebts:PersonCompartmentValidityCode				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8023Biometric Subject Comment

Mnemonic	SUBJ_COM			Conditionality	0		
				Status	Active		
Description	The comments or remarks on the biometric subject for which the biometric sample was collected.						
Field Min	1			Occur Min	0		
Field Max	120			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonCommentText				Cardinality	0...1	
XML Level 2	nc:CommentText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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2.8024

Biometric Subject Specialty

Biometric Subject US Person Indicator

Mnemonic	US_IND			Conditionality	O		
				Status	Active		
Description	The indicator of whether a biometric subject is a citizen of the United States, an alien lawfully admitted for permanent residence in the United States, or a member of the U.S. Armed Forces.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	YES NO CODE						
Source	BSWG						
XML Level 1	dod-ebts:USPersonIndicator				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8025

Biometric Subject Derogatory Comment

Mnemonic	DEROG_COM				Conditionality	O	
					Status	Active	
Description	The derogatory notes and comments concerning a biometric subject.						
Field Min	1				Occur Min	0	
Field Max	120				Occur Max	1	
Char Types	U				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonDerogatoryCommentText					Cardinality	0...1
XML Level 2	nc:CommentText					Cardinality	0..1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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2.8026

Biometric Subject Alternate Name

Mnemonic	SUBJ_AKA				Conditionality	0	
					Status	Active	
Description	An alternate name used by the biometric subject.				Can also be used to capture the subject's full maiden name.		
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonAlternateName					Cardinality	0..1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8026_0

Biometric Subject Alternate Name

Subfields: Repeating sets of information items

Mnemonic	SUBJ_AKA_0			Conditionality	0		
				Status	New-Active		
Description	Repeating subfield for Biometric Subject Alternate Name. Can also be used to capture the subject's full maiden name.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	10		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	EBTS 4.0						
XML Level 1	dod-ebts:PersonAlternateName				Cardinality	0...10	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8026_1

Biometric Subject Alternate Name

Person Alternate Name Category Code

Mnemonic	NAMCATCD			Conditionality	M↑		
				Status	Active		
Description	Defines the type of name such as maiden name, nickname, alias.						
Field Min	3			Occur Min	1		
Field Max	4			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	ALTERNATE NAME CATEGORY CODES						
Source	BSWG						
XML Level 1	dod-ebts:PersonAlternateName				Cardinality	0...10	
XML Level 2	dod-ebts:PersonAlternateNameCategoryCode				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8026_2

Biometric Subject Alternate Name

Name - One

Mnemonic	NAM1			Conditionality	M↑		
				Status	Active		
Description	The last name, surname or the family name of the person. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Nasab name, a patronymic or series of patronymics.						
Field Min	1			Occur Min	1		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonAlternateName				Cardinality	0...10	
XML Level 2	nc:PersonSurName				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Biometric Subject Alternate Name

Name - Two

Mnemonic	NAM2			Conditionality	M↑		
				Status	Active		
Description	The personal name of a person. It is typically the first name in western culture. Enter "UNKNOWN" if this information item is required and not available at the time of collection.						
Field Min	1			Occur Min	1		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonAlternateName				Cardinality	0...10	
XML Level 2	nc:PersonGivenName				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8026_4

Biometric Subject Alternate Name

Name - Three

Mnemonic	NAM3			Conditionality	O		
				Status	Active		
Description	The middle name of a person. It is placed between the first given name and the surname. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Kunya name, the person's first-born son is used as a substitute for the ism.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonAlternateName				Cardinality	0...10	
XML Level 2	nc:PersonMiddleName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8026_5

Biometric Subject Alternate Name

Name - Four

Mnemonic	NAM4			Conditionality	O		
				Status	Active		
Description	A name of a person to represent the fourth name for a culture using four or five names e.g., a tribal or village name. It will be given the ranking of fourth importance of naming in the culture from which the person is associated. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Nisbah name, describes a person's occupation, geographic home area, or descent tribe, family, etc..						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonAlternateName				Cardinality	0...10	
XML Level 2	fbi-ebts:PersonFourthImportanceName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8026_6

Biometric Subject Alternate Name

Name - Five

Mnemonic	NAM5			Conditionality	O		
				Status	Active		
Description	A name of a person to represent the fifth name for a culture using four or five names e.g., a tribal or village name. It will be given the ranking of fifth importance of naming in the culture from which the person is associated. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Laqab name, intended as a description of the person. Also can be used for the honorific title.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonAlternateName				Cardinality	0...10	
XML Level 2	fbi-ebts:PersonFifthImportanceName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8026_7

Biometric Subject Alternate Name

Name Validity

Mnemonic	NAME_VLD	Conditionality	O
		Status	Active
Description	This field defines the validity of the individual's name.		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	VALIDITY CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonAlternateName	Cardinality	0...10
XML Level 2	dod-ebts:PersonNameValidityCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8026_8

Biometric Subject Alternate Name

Transliteration Code

Mnemonic	TRANSLIT_CD	Conditionality	O
		Status	Active
Description	An encoding to transcribe from one alphabet to another.		
Field Min	4	Occur Min	0
Field Max	6	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	TRANSLITERATION CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonAlternateName	Cardinality	0...10
XML Level 2	dod-ebts:TransliterationCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8026_9

Biometric Subject Alternate Name

Comment

Mnemonic	COM	Conditionality	O
		Status	Active
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.		
Field Min	1	Occur Min	0
Field Max	126	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonAlternateName	Cardinality	0...10
XML Level 2	nc:CommentText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8028

Employment

Mnemonic	EMPLOY	Conditionality	O
		Status	Active
Description	The information about the biometric subject's employment.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonEmploymentSummary	Cardinality	0...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8028_0

Employment

Subfields: Repeating sets of information items

Mnemonic	EMPLOY_0				Conditionality	0			
					Status	New-Active			
Description	Repeating subfield for Employment.								
Field Min	n/a				Occur Min	0			
Field Max	n/a				Occur Max	5			
Char Types	n/a				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	EBTS 4.0								
XML Level 1	dod-ebts:PersonEmploymentSummary					Cardinality	0...5		
XML Level 2						Cardinality			
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

2.8028_1

Employment

Employer Name

Mnemonic	EMPNAM			Conditionality	M↑		
				Status	Active		
Description	The organization name of the employer, such as company name or corporate name.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonEmploymentSummary				Cardinality	0...5	
XML Level 2	nc:Employer or nc:EntityOrganization				Cardinality	1...1	
XML Level 3	nc:OrganizationName				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8028_2

Employment

Employee Position Name

Mnemonic	POSNAM	Conditionality	O
		Status	Active
Description	A job title or position of an employee.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonEmploymentSummary	Cardinality	0...5
XML Level 2	nc:EmployeePositionName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8028_3

Employment

Address Line 1

Mnemonic	ADD1	Conditionality	O
		Status	Active
Description	The street, including both number and name.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonEmploymentSummary	Cardinality	0...5
XML Level 2	dod-ebts:LocationAddress	Cardinality	0...1
XML Level 3	nc:StreetFullText	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8028_4

Employment

Address Line 2

Mnemonic	ADD2			Conditionality	0		
				Status	Active		
Description	Additional information about the street e.g. apt #.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonEmploymentSummary				Cardinality	0...5	
XML Level 2	dod-ebts:LocationAddress				Cardinality	0...1	
XML Level 3	nc:StreetFullText				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8028_5

Employment

City

Mnemonic	CITY			Conditionality	O		
				Status	Active		
Description	Name of the city.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonEmploymentSummary				Cardinality	0...5	
XML Level 2	dod-ebts:LocationAddress				Cardinality	0...1	
XML Level 3	nc:LocationCityName				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8028_6

Employment

State / Province

Mnemonic	STATE	Conditionality	O
		Status	Active
Description	The state, province or subdivision of a location.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonEmploymentSummary	Cardinality	0...5
XML Level 2	dod-ebts:LocationAddress	Cardinality	0...1
XML Level 3	nc:LocationStateName	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8028_7

Employment

Country Code

Mnemonic	CTRY	Conditionality	O
		Status	Active
Description	The GENC alpha3 country code. The DoD EBTS Default for this field is the GENC three character alpha codelist (genc:CountryAlpha3CodeType).		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonEmploymentSummary	Cardinality	0...5
XML Level 2	dod-ebts:LocationAddress	Cardinality	0...1
XML Level 3	nc:LocationCountryGENCCode	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8028_8

Employment

Postal Code

Mnemonic	POSTAL	Conditionality	O
		Status	Active
Description	Alphanumeric code assigned to groups of addresses by various national postal systems throughout the world.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonEmploymentSummary	Cardinality	0...5
XML Level 2	dod-ebts:LocationAddress	Cardinality	0...1
XML Level 3	nc:LocationPostalCode	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8028_9

Employment

Village

Mnemonic	VLG	Conditionality	O
		Status	Active
Description	Small population unit, typically rural, held together by common economic and political ties.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonEmploymentSummary	Cardinality	0...5
XML Level 2	dod-ebts:LocationAddress	Cardinality	0...1
XML Level 3	dod-ebts:LocationVillageName	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8028_10

Employment

Phone Number

Mnemonic	PHNUM	Conditionality	O
		Status	Active
Description	The full telephone number including international country code and area code. Space and hyphen are allowed.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonEmploymentSummary	Cardinality	0...5
XML Level 2	nc:TelephoneNumberFullID	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8028_11

Employment

Email Address

Mnemonic	EMAIL	Conditionality	O
		Status	Active
Description	Identifies an email box to which email messages are delivered. Application Profile might be more specific to what characters are allowed to be entered for the email address.		
Field Min	1	Occur Min	0
Field Max	254	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonEmploymentSummary	Cardinality	0...5
XML Level 2	nc:ContactEmailID	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8028_12

Employment

Clearance Code

Mnemonic	CLRCD			Conditionality	0		
				Status	Active		
Description	The clearance level that the biometric subject claims to have. This field is not authoritative.						
Field Min	3			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	CLEARANCE CODES						
Source	BSWG						
XML Level 1	dod-ebts:PersonEmploymentSummary				Cardinality	0...5	
XML Level 2	dod-ebts:PersonSecurityClearance				Cardinality	0...1	
XML Level 3	dod-ebts:PersonSecurityClearanceCode				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8028_13

Employment

Job Duties

Mnemonic	DUTY				Conditionality	0	
					Status	Active	
Description	A list of tasks performed at a job.						
Field Min	1				Occur Min	0	
Field Max	126				Occur Max	1	
Char Types	U				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonEmploymentSummary					Cardinality	0...5
XML Level 2	dod-ebts:EmployeeJobDutyText					Cardinality	0...1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8028_14

Employment

Job Description

Mnemonic	JOBDESC	Conditionality	O
		Status	Active
Description	Freeform text to describe a job such as responsibilities, expected outcome, etc.		
Field Min	1	Occur Min	0
Field Max	126	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonEmploymentSummary	Cardinality	0...5
XML Level 2	nc:EmployeeOccupationText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8028_15

Employment

Supervisor Name

Mnemonic	SUPV	Conditionality	O
		Status	Active
Description	The name of the person who is in charge of a particular department or unit.		
Field Min	1	Occur Min	0
Field Max	100	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonEmploymentSummary	Cardinality	0...5
XML Level 2	nc:EmployeeSupervisor	Cardinality	0...1
XML Level 3	nc:PersonName	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8028_16

Employment

Start Date

Mnemonic	STARTDATE	Conditionality	O
		Status	Active
Description	The begin date.		
Field Min	Encoding Specific	Occur Min	0
Field Max	Encoding Specific	Occur Max	1
Char Types	ANS	Special Chars	
Format	YYYYMMDD	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonEmploymentSummary	Cardinality	0...5
XML Level 2	nc:StartDate/nc:Date	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8028_17

Employment

Start Date

Mnemonic	ENDDATE	Conditionality	O
		Status	Active
Description	The end date.		
Field Min	Encoding Specific	Occur Min	0
Field Max	Encoding Specific	Occur Max	1
Char Types	ANS	Special Chars	
Format	YYYYMMDD	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonEmploymentSummary	Cardinality	0...5
XML Level 2	nc:EndDate/nc:Date	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8028_18

Employment

Comment

Mnemonic	COM	Conditionality	O
		Status	Active
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.		
Field Min	1	Occur Min	0
Field Max	126	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonEmploymentSummary	Cardinality	0...5
XML Level 2	nc:CommentText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8029

Biometric Subject Contact Email

Mnemonic	SUBJ_EMAIL	Conditionality	O
		Status	Active
Description	The email address of the biometric subject. This field was previously part of 2.8002 SUBJ_CNTCT in DoD EBTS 2.0. To achieve better harmonization with other agencies as well to improve alignment to the NIEM XML, the subject's email address has been split out into a new Field with ID 2.8029, as assigned in DoD EBTS 3.0.		
Field Min	1	Occur Min	0
Field Max	254	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:BiometricSubjectContactEmail	Cardinality	0..10
XML Level 2	nc:ContactEmailID	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8031

Biometric Subject Current Residence

Mnemonic	SUBJ_ADDR		Conditionality	0	
			Status	Active	
Description	The address of the current residence of the biometric subject. This field was previously 2.8001 SUBJ_ADDR in DoD EBTS 2.0. To achieve better harmonization with other agencies as well to improve alignment to the NIEM XML, the previous normalized field has been restructured and a new Field ID 2.8031 was assigned in DoD EBTS 3.0. In addition, Village, Neighborhood and Address Validity are also supported. This field has been updated the various parts of a street address with GENC Alpha3 country codes.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars		
Format			Constraints	n/a	
Code List					
Source	BSWG				
XML Level 1	dod-ebts:PersonCurrentResidenceLocation			Cardinality	0...1
XML Level 2	dod-ebts:LocationAddress or nc:StructuredAddress			Cardinality	0...1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.8031_1

Biometric Subject Current Residence

Address Line 1

Mnemonic	ADD1			Conditionality	0		
				Status	Active		
Description	The street, including both number and name.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonCurrentResidenceLocation				Cardinality	0...1	
XML Level 2	nc:StreetFullText				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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2.8031_2

Biometric Subject Current Residence

Address Line 2

Mnemonic	ADD2	Conditionality	O
		Status	Emerging
Description	Additional information about the street e.g. apt #.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonCurrentResidenceLocation	Cardinality	0...1
XML Level 2	nc:StreetFullText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8031_3

Biometric Subject Current Residence

City

Mnemonic	CITY	Conditionality	O
		Status	Active
Description	Name of the city.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonCurrentResidenceLocation	Cardinality	0...1
XML Level 2	nc:LocationCityName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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2.8031_4

Biometric Subject Current Residence

State / Province

Mnemonic	STATE	Conditionality	O
		Status	Active
Description	The state, province or subdivision of a location.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonCurrentResidenceLocation	Cardinality	0...1
XML Level 2	nc:LocationStateName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8031_5

Biometric Subject Current Residence

Country Code

Mnemonic	CTRY	Conditionality	O
		Status	Active
Description	The GENC alpha3 country code. The DoD EBTS 4.0 Default for this field is the GENC three character alpha codelist (genc:CountryAlpha3CodeType).		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonCurrentResidenceLocation	Cardinality	0...1
XML Level 2	nc:LocationCountryGENCCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8031_6

Biometric Subject Current Residence

Postal Code

Mnemonic	POSTAL	Conditionality	O
		Status	Active
Description	Alphanumeric code assigned to groups of addresses by various national postal systems throughout the world.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonCurrentResidenceLocation	Cardinality	0...1
XML Level 2	nc:LocationPostalCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8031_7

Biometric Subject Current Residence

Neighborhood / District

Mnemonic	NEIG	Conditionality	O
		Status	Active
Description	A geographically localized community within a larger city, town or suburb.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonCurrentResidenceLocation	Cardinality	0...1
XML Level 2	nc:LocaleNeighborhoodName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8031_8

Biometric Subject Current Residence

Village

Mnemonic	VLG	Conditionality	O
		Status	Active
Description	Small population unit, typically rural, held together by common economic and political ties.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonCurrentResidenceLocation	Cardinality	0...1
XML Level 2	dod-ebts:LocationVillageName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8031_9

Biometric Subject Current Residence

Address Validity

Mnemonic	ADDR_VLD	Conditionality	O
		Status	Active
Description	This field defines the validity of the address information.		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	VALIDITY CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonCurrentResidenceLocation	Cardinality	0...1
XML Level 2	dod-ebts:LocationAddressValidityCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8032Biometric Subject Contact Telephone

Mnemonic	SUBJ_PHONE			Conditionality	0
				Status	Active
Description	The telephone number including extension (if available) that you might contact the biometric subject. Different categories of telephone number (e.g. cell, home, work, etc.) are supported. This field was previously part of 2.8002 SUBJ_CNTCT in DoD EBTS 2.0.To achieve better harmonization with other agencies as well to improve alignment to the NIEM XML, the subject's telephone number(s) has been split out into a new Field with ID 2.8032 has been assigned in DoD EBTS 3.0. This field continue to support the various categories of telephone that the subject can be contacted by. The telephone number and extension are supported.				
Field Min	n/a			Occur Min	0
Field Max	n/a			Occur Max	1
Char Types	n/a			Special Chars	
Format	n/a			Constraints	n/a
Code List					
Source	BSWG				
XML Level 1	nc:ContactTelephoneNumber			Cardinality	0...1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.8032_1Biometric Subject Contact TelephoneTelephone Category Code

Mnemonic	PH_TYP			Conditionality	0		
				Status	Active		
Description	The method of contact for the individual e.g. phone, email.						
Field Min	2			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	TELEPHONE CATEGORY CODES						
Source	BSWG						
XML Level 1	nc:ContactTelephoneNumber				Cardinality	0...1	
XML Level 2	nc:TelephoneNumberCategoryText				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8032_2Biometric Subject Contact Telephone*Phone Number*

Mnemonic	PHNUM	Conditionality	O
		Status	Active
Description	The full telephone number including international country code and area code. Space and hyphen are allowed.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	nc:ContactTelephoneNumber	Cardinality	0...1
XML Level 2	nc:TelephoneNumberFullID	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8032_3Biometric Subject Contact Telephone*Phone Extension*

Mnemonic	PHEXT	Conditionality	O
		Status	Active
Description	The number for an additional telephone wired to the same telephone line as another.		
Field Min	1	Occur Min	0
Field Max	20	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	nc:ContactTelephoneNumber	Cardinality	0...1
XML Level 2	dod-ebts:PhoneExtension	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8033

Biometric Subject Birth Location

Mnemonic	SUBJ_POB	Conditionality	O
		Status	Active
Description	Information identifying where the biometric subject was born. This field was previously 2.8004 POB in DoD EBTS 2.0. To achieve better harmonization with other agencies as well to improve alignment to the NIEM XML, the previously normalized field has been renamed and restructured. A new Field with ID 2.8033 has been assigned in DoD EBTS 3.0. For all location type field, city, state/province, village and comment are supported. This field has been updated to contain the GENC 3166-1 Alpha3 country code.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonBirthLocation	Cardinality	0...1
XML Level 2	nc:PersonBirthLocation	Cardinality	0...1
XML Level 3	nc:AddressFullText	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8033_1

Biometric Subject Birth Location

City

Mnemonic	CITY	Conditionality	O
		Status	Active
Description	Name of the city.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonBirthLocation	Cardinality	0...1
XML Level 2	nc:PersonBirthLocation	Cardinality	0...1
XML Level 3	nc:LocationCityName	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8033_2

Biometric Subject Birth Location

State / Province

Mnemonic	STATE			Conditionality	O		
				Status	Active		
Description	The state, province or subdivision of a location.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonBirthLocation				Cardinality	0...1	
XML Level 2	nc:PersonBirthLocation				Cardinality	0...1	
XML Level 3	nc:LocationStateName				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8033_3

Biometric Subject Birth Location

Country Code

Mnemonic	CTRY			Conditionality	0		
				Status	Active		
Description	The GENC alpha3 country code. (genc:CountryAlpha3CodeType).			The DoD EBTS 4.0 default for this field is the GENC three character alpha codelist			
Field Min	3			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonBirthLocation				Cardinality	0...1	
XML Level 2	nc:PersonBirthLocation				Cardinality	0...1	
XML Level 3	nc:LocationCountryGENCCode				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8033_4

Biometric Subject Birth Location

Village

Mnemonic	VLG	Conditionality	O
		Status	Active
Description	Small population unit, typically rural, held together by common economic and political ties.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonBirthLocation	Cardinality	0...1
XML Level 2	nc:PersonBirthLocation	Cardinality	0...1
XML Level 3	dod-ebts:LocationVillageName	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8033_5

Biometric Subject Birth Location

Comment

Mnemonic	COM	Conditionality	O
		Status	Active
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.		
Field Min	1	Occur Min	0
Field Max	126	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonBirthLocation	Cardinality	0...1
XML Level 2	nc:PersonBirthLocation	Cardinality	0...1
XML Level 3	nc:LocationDescriptionText	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8034

Biometric Subject Death Location

Mnemonic	SUBJ_POD	Conditionality	O
		Status	Active
Description	Defines the biometric subject's place of death. This field was previously 2.8006 POD in DoD EBTS 2.0. To achieve better harmonization with other agencies as well to improve alignment to the NIEM XML, the previously normalized field has been renamed and restructured. A new Field with ID 2.8034 has been assigned in DoD EBTS 3.0. For all location type field, city, state/province, village and comment are supported. The GENC Alpha3 country code should now be used in place of the ISO 3166-1 Alpha3 country code.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonDeathLocation	Cardinality	0...1
XML Level 2	dod-ebts:LocationAddress	Cardinality	0...1
XML Level 3	nc:AddressFullText	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8034_1

Biometric Subject Death Location

City

Mnemonic	CITY	Conditionality	O
		Status	Active
Description	Name of the city.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonDeathLocation	Cardinality	0...1
XML Level 2	nc:LocationCityName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8034_2

Biometric Subject Death Location

State / Province

Mnemonic	STATE	Conditionality	O
		Status	Active
Description	The state, province or subdivision of a location.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonDeathLocation	Cardinality	0...1
XML Level 2	nc:LocationStateName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8034_3

Biometric Subject Death Location

Country Code

Mnemonic	CTRY	Conditionality	O
		Status	Active
Description	The GENC alpha3 country code. The DoD EBTS 4.0 default for this field is the GENC three character alpha codelist (genc:CountryAlpha3CodeType).		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonDeathLocation	Cardinality	0...1
XML Level 2	nc:LocationCountryGENCCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8034_4Biometric Subject Death Location*Village*

Mnemonic	VLG	Conditionality	O
		Status	Active
Description	Small population unit, typically rural, held together by common economic and political ties.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonDeathLocation	Cardinality	0...1
XML Level 2	dod-ebts:LocationVillageName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8034_5Biometric Subject Death Location*Biometric Subject Death Location*

Mnemonic	COM	Conditionality	O
		Status	Active
Description	Comment		
Field Min	0	Occur Min	0
Field Max	126	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:PersonDeathLocation	Cardinality	0...1
XML Level 2	nc:LocationDescriptionText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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2.8035

Biometric Subject Height Measurement

Mnemonic	SUBJ_HEIGHT			Conditionality	0		
				Status	Active		
Description	The set of data describing the height measurement including measurement range of a biometric subject. This field was previously 2.8009 HGT. Measurement Type has been removed from the set. A new field ID, 2.8035 SUBJ_HEIGHT has been assigned by DoD EBTS 3.0. For measurement range, provide 2 subfields of the same measurement type where validity is set to estimated.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonHeightMeasure				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8035_1

Biometric Subject Height Measurement

Height Value

Mnemonic	HGT		Conditionality	0	
			Status	Active	
Description	The value of the height measurement. Mininum height shall be 4'0" and maximum height shall be 7'11". The metric equivalent is also allowed min = 1.22M, max = 2.41M. The following rules apply when measuring an individual's height: Height FTIN - Three-character value, the first leftmost digit is used to show feet while the two rightmost digits are used to show inches between 00 and 11. Height IN - Two-character value. Height M - Four-character value, the first leftmost digit is used.				
Field Min	2		Occur Min	0	
Field Max	4		Occur Max	1	
Char Types	NS		Special Chars		
Format	n/a		Constraints	n/a	
Code List					
Source	BSWG				
XML Level 1	dod-ebts:PersonHeightMeasure			Cardinality	0...1
XML Level 2	nc:RangeMaximumIntegerValue and/or nc:RangeMaximumIntegerValue			Cardinality	0...1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.8035_2Biometric Subject Height Measurement*Length Unit*

Mnemonic	LENUNIT	Conditionality	O
		Status	Active
Description	The units of measure associated with a given height measurement e.g., inches, centimeters, etc		
Field Min	1	Occur Min	0
Field Max	4	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	UNIT OF MEASURE CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonHeightMeasure	Cardinality	0...1
XML Level 2	nc:MeasureUnitText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8035_3Biometric Subject Height Measurement*Measurement Validity*

Mnemonic	MEASVLD	Conditionality	O
		Status	Active
Description	Captures the validity of the measurement.		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	VALIDITY CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonHeightMeasure	Cardinality	0...1
XML Level 2	dod-ebts:PersonMeasureValidityCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8036

Biometric Subject Weight Measurement

Mnemonic	SUBJ_WEIGHT		Conditionality	O	
			Status	Active	
Description	The set of data describing the weight measurement including measurement range of a biometric subject. This field was previously 2.8010 WGT. Measurement Type has been removed from the set. A new field ID, 2.8036 SUBJ_WEIGHT has been assigned by DoD EBTS 3.0. For measurement range, provide 2 subfields of the same measurement type where validity is set to estimated.				
Field Min	n/a		Occur Min	1	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars		
Format	n/a		Constraints	n/a	
Code List					
Source	BSWG				
XML Level 1	dod-ebts:PersonWeightMeasure			Cardinality	0...1
XML Level 2	nc:RangeMaximumIntegerValue and/or nc:RangeMaximumIntegerValue			Cardinality	1...1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.8036_1

Biometric Subject Weight Measurement

Weight Value

Mnemonic	WGT		Conditionality	O	
			Status	Active	
Description	The value of the weight measurement. The minimum weight shall be 0 LB/KG. The maximum weight shall be 499 LB or 227 KG. Measurement shall be rounded up to the nearest pound or kilogram. Note: If the measurement is unknown but mandatory, use "000" to represent unknown measurement.				
Field Min	1		Occur Min	0	
Field Max	3		Occur Max	1	
Char Types	N		Special Chars		
Format	n/a		Constraints	n/a	
Code List					
Source	BSWG				
XML Level 1	dod-ebts:PersonWeightMeasure			Cardinality	0...1
XML Level 2	nc:PersonWeightMeasure/nc:MeasureValue			Cardinality	0...1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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Biometric Subject Weight Measurement

Mass Unit

Mnemonic	MASSUNIT	Conditionality	M↑
		Status	Active
Description	The units of measure associated with a given weight measurement e.g., pounds.		
Field Min	2	Occur Min	1
Field Max	2	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	UNIT OF MEASURE CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonWeightMeasure	Cardinality	0...1
XML Level 2	nc:measureunitText	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8036_3

Biometric Subject Weight Measurement

Measurement Validity

Mnemonic	MEASVLD	Conditionality	M↑
		Status	Active
Description	Captures the validity of the measurement.		
Field Min	3	Occur Min	1
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	VALIDITY CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonWeightMeasure	Cardinality	0...1
XML Level 2	dod-ebts:PersonMeasureValidityCode	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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Biometric Subject Eye Color

Mnemonic	SUBJ_EYE_0				Conditionality	0	
					Status	Active	
Description	The color of the biometric subject's eyes.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonEyeColor					Cardinality	0..1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8037_0

Biometric Subject Eye Color

Subfields: Repeating sets of information items

Mnemonic	SUBJ_EYE				Conditionality	0		
					Status	New-Active		
Description	Repeating subfield for Biometric Subject Eye Color.							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	2		
Char Types	n/a				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	EBTS 4.0							
XML Level 1	dod-ebts:PersonEyeColor					Cardinality	0...2	
XML Level 2						Cardinality		
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

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Biometric Subject Eye Color

Eye Position

Mnemonic	EPOS	Conditionality	M↑
		Status	Active
Description	The position of the eye.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	EPOS = 0, 1, or 2, biom_2:EyePositionCodeType
Code List	FEATURE IDENTIFIER CODE		
Source	BSWG		
XML Level 1	dod-ebts:PersonEyeColor	Cardinality	0...2
XML Level 2	biom_2:IrisEyePositionCode	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8037_2

Biometric Subject Eye Color

Mnemonic	ECOL	Conditionality	M↑
		Status	Active
Description	This field shall specify the subject's eye color.		
Field Min	3	Occur Min	1
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	ALPHA EYE COLOR CODES		
Source	BSWG		
XML Level 1	dod-ebts:PersonEyeColor	Cardinality	0...2
XML Level 2	j:PersonEyeColorCode	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Biometric Subject Group Membership

Mnemonic	GRPMBR			Conditionality	0		
				Status	Active		
Description	This set of fields identifies the names, gender, roles, address information and contact information of an individual who is associated with the biometric subject. This field was previously 2.8017 IASSOC in DoD EBTS 2.0.To achieve better harmonization with other agencies as well to improve alignment to the NIEM XML, the previous normalized field has been restructured and a new Field ID 2.8038 has been assigned in DoD EBTS 3.0. This field continues to support the associated individual gender, role, name, address and contact phone. The associated individual birth date, occupation and comment have been added to the set.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:AssociatedIndividual				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8038_0

Biometric Subject Group Membership

Subfields: Repeating sets of information items

Mnemonic	GRPMBR_0					Conditionality	0		
						Status	New-Active		
Description	Repeating subfield for Biometric Subject Group Membership.								
Field Min	n/a					Occur Min	0		
Field Max	n/a					Occur Max	100		
Char Types	n/a					Special Chars			
Format	n/a					Constraints	n/a		
Code List									
Source	EBTS 4.0								
XML Level 1	dod-ebts:AssociatedIndividual						Cardinality	0...100	
XML Level 2							Cardinality		
XML Level 3							Cardinality		
XML Level 4							Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8038_1

Biometric Subject Associated Individual

Associated Individual Gender

Mnemonic	IASSOC_SEX			Conditionality	O		
				Status	Active		
Description	This field is used to report the gender of the associated individual. The entry is a single character selected from the look-up code list.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	see Look Up Codes		
Code List	GENDER CODES						
Source	BSWG						
XML Level 1	dod-ebts:AssociatedIndividual				Cardinality	0...100	
XML Level 2	j:PersonSexCode				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8038_2

Biometric Subject Associated Individual

Associated Individual Role

Mnemonic	IASSOC_ROLE			Conditionality	M↑		
				Status	Active		
Description	The role of an individual who is affiliated with the biometric subject.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	see Look Up Codes		
Code List	ASSOCIATED INDIVIDUAL ROLE CODES						
Source	BSWG						
XML Level 1	dod-ebts:AssociatedIndividual				Cardinality	0...100	
XML Level 2	dod-ebts:AssociatedIndividualCategoryCode				Cardinality	1...1	
XML Level 3	dod-ebts:AssociatedIndividualName				Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8038_3Biometric Subject Associated Individual*Name - One*

Mnemonic	NAM1			Conditionality	M↑		
				Status	Emerging		
Description	The last name, surname or the family name of the person. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Nasab name, a patronymic or series of patronymics.						
Field Min	1			Occur Min	1		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:AssociatedIndividual				Cardinality	0...100	
XML Level 2	nc:PersonFullName				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8038_4Biometric Subject Associated Individual*Name - Two*

Mnemonic	NAM2			Conditionality	M↑		
				Status	Active		
Description	The personal name of a person. It is typically the first name in western culture. Enter "UNKNOWN" if this information item is required and not available at the time of collection.						
Field Min	1			Occur Min	1		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:AssociatedIndividual				Cardinality	0...100	
XML Level 2	nc:PersonGivenName				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Biometric Subject Associated Individual

Name - Three

Mnemonic	NAM3			Conditionality	O		
				Status	Active		
Description	The middle name of a person. It is placed between the first given name and the surname. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Kunya name, the person's first-born son is used as a substitute for the ism.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:AssociatedIndividual				Cardinality	0...100	
XML Level 2	nc:PersonMiddleName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8038_6

Biometric Subject Associated Individual

Name - Four

Mnemonic	NAM4		Conditionality	O	
			Status	Active	
Description	A name of a person to represent the fourth name for a culture using four or five names e.g., a tribal or village name. It will be given the ranking of fourth importance of naming in the culture from which the person is associated. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Nisbah name, describes a person's occupation, geographic home area, or descent tribe, family, etc..				
Field Min	1		Occur Min	0	
Field Max	50		Occur Max	1	
Char Types	U		Special Chars		
Format	n/a		Constraints	n/a	
Code List					
Source	BSWG				
XML Level 1	dod-ebts:AssociatedIndividual			Cardinality	0...100
XML Level 2	fbi-ebts:PersonFourthImportanceName			Cardinality	0...1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.8038_7

Biometric Subject Associated Individual

Name - Five

Mnemonic	NAM5	Conditionality	O
		Status	Active
Description	A name of a person to represent the fifth name for a culture using four or five names e.g., a tribal or village name. It will be given the ranking of fifth importance of naming in the culture from which the person is associated. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Laqab name, intended as a description of the person. Also can be used for the honorific title.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:AssociatedIndividual	Cardinality	0...100
XML Level 2	fbi-ebts:PersonFifthImportanceName	Cardinality	0...1
XML Level 3	dod-ebts:PersonCurrentResidenceLocationdod-ebts:LocationAddressnc:StructuredAddress	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8038_8

Biometric Subject Associated Individual

Address Line 1

Mnemonic	ADD1	Conditionality	O
		Status	Active
Description	The street, including both number and name.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:AssociatedIndividual	Cardinality	0...100
XML Level 2	dod-ebts:LocationAddress	Cardinality	0...1
XML Level 3	nc:StreetFullText	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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Biometric Subject Associated Individual

Address Line 2

Mnemonic	ADD2	Conditionality	O
		Status	Active
Description	Additional information about the street e.g. apt #.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:AssociatedIndividual	Cardinality	0...100
XML Level 2	dod-ebts:LocationAddress	Cardinality	0...1
XML Level 3	nc:StreetFullText	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8038_10

Biometric Subject Associated Individual

City

Mnemonic	CITY	Conditionality	O
		Status	Active
Description	Name of the city.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:AssociatedIndividual	Cardinality	0...100
XML Level 2	nc:LocationCityName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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Biometric Subject Associated Individual

State / Province

Mnemonic	STATE	Conditionality	O
		Status	Active
Description	The state, province or subdivision of a location.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:AssociatedIndividual	Cardinality	0...100
XML Level 2	nc:LocationStateName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8038_12

Biometric Subject Associated Individual

Country Code

Mnemonic	CTRY	Conditionality	O
		Status	Active
Description	The GENC alpha3 country code. The DoD EBTS 4.0 default for this field is the GENC three character alpha codelist (genc:CountryAlpha3CodeType).		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:AssociatedIndividual	Cardinality	0...100
XML Level 2	nc:LocationCountryGENCCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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Biometric Subject Associated Individual

Postal Code

Mnemonic	POSTAL	Conditionality	O
		Status	Active
Description	Alphanumeric code assigned to groups of addresses by various national postal systems throughout the world.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:AssociatedIndividual	Cardinality	0...100
XML Level 2	nc:LocationPostalCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8038_14

Biometric Subject Associated Individual

Village

Mnemonic	VLG	Conditionality	O
		Status	Active
Description	Small population unit, typically rural, held together by common economic and political ties.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:AssociatedIndividual	Cardinality	0...100
XML Level 2	nc:LocaleNeighborhoodName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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Biometric Subject Associated Individual

Phone Number

Mnemonic	PHNUM	Conditionality	O
		Status	Active
Description	The full telephone number including international country code and area code. Space and hyphen are allowed.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:AssociatedIndividual	Cardinality	0...100
XML Level 2	dod-ebts:LocationVillageName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8038_16

Biometric Subject Associated Individual

Birth Date

Mnemonic	DOB	Conditionality	O
		Status	Active
Description	The 8 digit calendar date for the person's birth date.		
Field Min	Dependent on Encoding	Occur Min	0
Field Max	Dependent on Encoding	Occur Max	1
Char Types	ANS	Special Chars	
Format	YYYYMMDD	Constraints	8 digit date
Code List			
Source	BSWG		
XML Level 1	dod-ebts:AssociatedIndividual	Cardinality	0...100
XML Level 2	dod-ebts:PersonBirthDate/nc:Date	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8038_17Biometric Subject Associated Individual*Occupation*

Mnemonic	OCP	Conditionality	O
		Status	Active
Description	This free-text field contains the person's occupation. The OCP returned in a response is the same as the one submitted.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:AssociatedIndividual	Cardinality	0...100
XML Level 2	nc:EmployeeOccupationText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8038_18Biometric Subject Associated Individual*Comment*

Mnemonic	COM	Conditionality	O
		Status	Active
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.		
Field Min	1	Occur Min	0
Field Max	126	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:AssociatedIndividual	Cardinality	0...100
XML Level 2	nc:CommentText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8039

Biometric Subject Group Membership

Biometric Subject Group Membership Biometric Subject Group Membership

Mnemonic	GRPMBR			Conditionality	O		
				Status	Active		
Description	Provide summary information on organizations the biometric subject is a member of. This field was previously 2.8018 GRPMBR in DoD EBTS 2.0.To achieve better harmonization with other agencies as well to improve alignment to the NIEM XML, the previous normalized field has been restructured and a new Field ID 2.8039 has been assigned in DoD EBTS 3.0. This field continues to support the group name, type, member role, address, contact phone and comment.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:OrganizationMembership				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8039_0

Biometric Subject Group Membership

Subfields: Repeating sets of information items

Mnemonic	GRPMBR_0				Conditionality	O	
					Status	New-Active	
Description	Repeating subfield for Biometric Subject Group Membership.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	100	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	EBTS 4.0						
XML Level 1	dod-ebts:OrganizationMembership					Cardinality	0...100
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8039_1Biometric Subject Group Membership*Group Name*

Mnemonic	GMNAM	Conditionality	M↑
		Status	Active
Description	The name of the group that the biometric subject is associated with.		
Field Min	1	Occur Min	1
Field Max	100	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:OrganizationMembership	Cardinality	0...100
XML Level 2	nc:OrganizationName	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8039_2Biometric Subject Group Membership*Group Type*

Mnemonic	GMTYP	Conditionality	M↑
		Status	Active
Description	The type of group that the biometric subject is associated with.		
Field Min	3	Occur Min	1
Field Max	5	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	see Look Up Codes
Code List	GROUP TYPE CODES		
Source	BSWG		
XML Level 1	dod-ebts:OrganizationMembership	Cardinality	0...100
XML Level 2	dod-ebts:OrganizationCategoryCode	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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Biometric Subject Group Membership

Group Member Role

Mnemonic	GMRL			Conditionality	0		
				Status	Active		
Description	The role within the associated group that the biometric subject is acting as.						
Field Min	1			Occur Min	0		
Field Max	100			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:OrganizationMembership				Cardinality	0...100	
XML Level 2	nc:AddressFullText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8039_4

Biometric Subject Group Membership

Address Line 1

Mnemonic	ADD1			Conditionality	O		
				Status	Active		
Description	The street, including both number and name.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:OrganizationMembership				Cardinality	0...100	
XML Level 2	nc:StreetFullText				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Biometric Subject Group Membership

Address Line 2

Mnemonic	ADD2	Conditionality	O
		Status	Active
Description	Additional information about the street e.g. apt #.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:OrganizationMembership	Cardinality	0...100
XML Level 2	nc:StreetFullText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8039_6

Biometric Subject Group Membership

City

Mnemonic	CITY	Conditionality	O
		Status	Active
Description	Name of the city.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:OrganizationMembership	Cardinality	0...100
XML Level 2	nc:LocationCityName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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Biometric Subject Group Membership

State / Province

Mnemonic	STATE	Conditionality	O
		Status	Active
Description	The state, province or subdivision of a location.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:OrganizationMembership	Cardinality	0...100
XML Level 2	nc:LocationStateName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8039_8

Biometric Subject Group Membership

Country Code

Mnemonic	CTRY	Conditionality	O
		Status	Active
Description	The GENC alpha3 country code. The DoD EBTS 4.0 default for this field is the GENC three character alpha codelist (genc:CountryAlpha3CodeType).		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:OrganizationMembership	Cardinality	0...100
XML Level 2	Genc:countryAlpha3CodeType	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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2.8039_9

Biometric Subject Group Membership

Postal Code

Mnemonic	POSTAL	Conditionality	O
		Status	Active
Description	Alphanumeric code assigned to groups of addresses by various national postal systems throughout the world.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:OrganizationMembership	Cardinality	0...100
XML Level 2	nc:LocationPostalCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8039_10

Biometric Subject Group Membership

Village

Mnemonic	VLG	Conditionality	O
		Status	Active
Description	Small population unit, typically rural, held together by common economic and political ties.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:OrganizationMembership	Cardinality	0...100
XML Level 2	dod-ebts:LocationVillageName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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2.8039_11

Biometric Subject Group Membership

Phone Number

Mnemonic	PHNUM	Conditionality	O
		Status	Active
Description	The full telephone number including international country code and area code. Space and hyphen are allowed.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:OrganizationMembership	Cardinality	0...100
XML Level 2	nc:TelephoneNumberFullID	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8039_12

Biometric Subject Group Membership

Comment

Mnemonic	COM	Conditionality	O
		Status	Active
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.		
Field Min	1	Occur Min	0
Field Max	126	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:OrganizationMembership	Cardinality	0...100
XML Level 2	nc:CommentText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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2.804

Biometric Subject Name

Mnemonic	SUBJ_NAME			Conditionality	0		
				Status	Active		
Description	The name of the biometric subject. This field was previously 2.8000 SUBJ_NAM in DoD EBTS 2.0.To achieve better harmonization with other agencies as well to improve alignment to the NIEM XML, the previous normalized field has been restructured and a new Field ID 2.8030 has been assigned in DoD EBTS 3.0. This field continues to support Arabic names. For aliases, see Field 2.8206 SUBJ_AKA for Biometric Subject Alternate Name.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonName				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8040_1

Biometric Subject Name

Name - One

Mnemonic	NAM1			Conditionality	0		
				Status	Active		
Description	The last name, surname or the family name of the person. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Nasab name, a patronymic or series of patronymics.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonName				Cardinality	0...1	
XML Level 2	nc:PersonSurName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8040_2

Biometric Subject Name

Name - Two

Mnemonic	NAM2			Conditionality	M↑		
				Status	Active		
Description	The personal name of a person. It is typically the first name in western culture. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Ism name, the main name of an Arab person; his or her personal name e.g. "Kareem" or "Fatimah".						
Field Min	1			Occur Min	1		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonName				Cardinality	0...1	
XML Level 2	nc:PersonGivenName				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8040_3

Biometric Subject Name

Name - Three

Mnemonic	NAM3			Conditionality	O		
				Status	Active		
Description	The middle name of a person. It is placed between the first given name and the surname. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Kunya name, the person's first-born son is used as a substitute for the ism.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonName				Cardinality	0...1	
XML Level 2	nc:PersonMiddleName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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2.8040_4

Biometric Subject Name

Name - Four

Mnemonic	NAM4			Conditionality	0		
				Status	Active		
Description	A name of a person to represent the fourth name for a culture using four or five names e.g., a tribal or village name. It will be given the ranking of fourth importance of naming in the culture from which the person is associated. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Nisbah name, describes a person's occupation, geographic home area, or descent tribe, family, etc..						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonName				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonFourthImportanceName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8040_5

Biometric Subject Name

Name - Five

Mnemonic	NAM5			Conditionality	0		
				Status	Active		
Description	A name of a person to represent the fifth name for a culture using four or five names e.g., a tribal or village name. It will be given the ranking of fifth importance of naming in the culture from which the person is associated. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Laqab name, intended as a description of the person. Also can be used for the honoric title.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:PersonName				Cardinality	0...1	
XML Level 2	fbi-ebts:PersonFifthImportanceName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8040_6

Biometric Subject Name

Name Validity

Mnemonic	NAME_VLD				Conditionality	O			
					Status	Active			
Description	This field defines the validity of the individual's name.								
Field Min	3				Occur Min	0			
Field Max	3				Occur Max	1			
Char Types	A				Special Chars				
Format	n/a				Constraints	see Look Up Codes			
Code List	VALIDITY CODES								
Source	BSWG								
XML Level 1	dod-ebts:PersonName					Cardinality	0...1		
XML Level 2	dod-ebts:PersonNameValidityCode					Cardinality	0...1		
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes		

2.8040_7

Biometric Subject Name

Transliteration Code

Mnemonic	TRANSLIT_CD			Conditionality	O		
				Status	Active		
Description	An encoding to transcribe from one alphabet to another.						
Field Min	4			Occur Min	0		
Field Max	6			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	see Look Up Codes		
Code List	TRANSLITERATION CODES						
Source	BSWG						
XML Level 1	dod-ebts:PersonName				Cardinality	0...1	
XML Level 2	dod-ebts:TransliterationCode				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8102Encounter Mission Type

Mnemonic	ENCTR_MSN				Conditionality	0	
					Status	Active	
Description	The kind of mission under which the biometric subject's data was collected.						
Field Min	2				Occur Min	0	
Field Max	5				Occur Max	1	
Char Types	A				Special Chars		
Format	n/a				Constraints	see Look Up Codes	
Code List	MISSION CODES						
Source	BSWG						
XML Level 1	dod-ebts:EncounterMissionCategoryCode					Cardinality	0..1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8103Collection Reason

Mnemonic	COL_RSN			Conditionality	0
				Status	Active
Description	The purpose for which a biometric sample was obtained from the biometric subject.				
Field Min	1			Occur Min	0
Field Max	300			Occur Max	1
Char Types	U			Special Chars	
Format	n/a			Constraints	n/a
Code List					
Source	BSWG				
XML Level 1	dod-ebts:CollectionReasonText			Cardinality	0...1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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2.8106

Triggering Event

Mnemonic	EVENT			Conditionality	0
				Status	Active
Description	Something that happens at a given place and time that triggers subsequent collection encounter.				
Field Min	n/a			Occur Min	0
Field Max	n/a			Occur Max	Unlimited
Char Types	n/a			Special Chars	
Format	n/a			Constraints	n/a
Code List					
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required. Pending approval.				
XML Level 1	dod-ebts:TriggeringEvent			Cardinality	0..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.8106_0

Triggering Event

Subfields: Repeating sets of information items

Mnemonic	EVENT_0				Conditionality	0			
					Status	New-Active			
Description	Repeating subfield for Triggering Event.								
Field Min	n/a				Occur Min	0			
Field Max	n/a				Occur Max	*			
Char Types	n/a				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	EBTS 4.0								
XML Level 1	dod-ebts:TriggeringEvent					Cardinality	0..*		
XML Level 2						Cardinality			
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

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2.8106_1

Triggering Event

Triggering Event Identifier

Mnemonic	EVENT_ID			Conditionality	O		
				Status	Active		
Description	The unique identifier for the triggering event.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	ANS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required. Pending approval.						
XML Level 1	dod-ebts:TriggeringEvent				Cardinality	0..*	
XML Level 2	nc:Activity				Cardinality	0...1	
XML Level 3	nc:ActivityIdentification/nc:IdentificationID				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8106_2

Triggering Event

Address Line 1

Mnemonic	ADD1			Conditionality	O	
				Status	Active	
Description	The street, including both number and name.					
Field Min	1			Occur Min	0	
Field Max	50			Occur Max	1	
Char Types	U			Special Chars		
Format	n/a			Constraints	n/a	
Code List						
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required. Pending approval.					
XML Level 1	dod-ebts:TriggeringEvent				Cardinality	0..*
XML Level 2	nc:Activity				Cardinality	0...1
XML Level 3	nc:AddressFullText				Cardinality	0...1
XML Level 4					Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0
						Yes

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2.8106_3

Triggering Event

Address Line 2

Mnemonic	ADD2	Conditionality	O
		Status	Active
Description	Additional information about the street e.g. apt #.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required. Pending approval.		
XML Level 1	dod-ebts:TriggeringEvent	Cardinality	0..*
XML Level 2	nc:Activity	Cardinality	0...1
XML Level 3	nc:StreetFullText	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8106_4

Triggering Event

City

Mnemonic	CITY	Conditionality	O
		Status	Active
Description	Name of the city.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required. Pending approval.		
XML Level 1	dod-ebts:TriggeringEvent	Cardinality	0..*
XML Level 2	nc:Activity	Cardinality	0...1
XML Level 3	nc:LocationCityName	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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2.8106_6

Triggering Event

Country Code

Mnemonic	CTRY				Conditionality	O		
					Status	Active		
Description	The GENC alpha3 country code. (genc:CountryAlpha3CodeType).				The DoD EBTS 4.0 default for this field is the GENC three character alpha codelist			
Field Min	3				Occur Min	0		
Field Max	3				Occur Max	1		
Char Types	A				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required. Pending approval.							
XML Level 1	dod-ebts:TriggeringEvent					Cardinality	0..*	
XML Level 2	nc:Activity					Cardinality	0...1	
XML Level 3	Genc:countryAlpha3CodeType					Cardinality	0...1	
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes	

2.8106_7

Triggering Event

Village

Mnemonic	VLG			Conditionality	O		
				Status	Active		
Description	Small population unit, typically rural, held together by common economic and political ties.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required. Pending approval.						
XML Level 1	dod-ebts:TriggeringEvent				Cardinality	0..*	
XML Level 2	nc:Activity				Cardinality	0...1	
XML Level 3	dod-ebts:village				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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2.8106_8

Triggering Event

Event Description

Mnemonic	EVENT_DESC		Conditionality	O
			Status	Active
Description	The textual description of an event that triggers subsequent collection encounter.			
Field Min	1	Occur Min	0	
Field Max	255	Occur Max	1	
Char Types	U	Special Chars		
Format	n/a	Constraints	n/a	
Code List				
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required. Pending approval.			
XML Level 1	dod-ebts:TriggeringEvent		Cardinality	0..*
XML Level 2	nc:Activity		Cardinality	0...1
XML Level 3	nc:ActivityName		Cardinality	0...1
XML Level 4			Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0
				Yes
				DoD EBTS 4.0
				Yes

2.8106_9

Triggering Event

Comment

Mnemonic	COM		Conditionality	O
			Status	Active
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.			
Field Min	1	Occur Min	0	
Field Max	126	Occur Max	1	
Char Types	U	Special Chars		
Format	n/a	Constraints	n/a	
Code List				
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required. Pending approval.			
XML Level 1	dod-ebts:TriggeringEvent		Cardinality	0..*
XML Level 2	nc:Activity		Cardinality	0...1
XML Level 3	nc:ActivityDescriptionText		Cardinality	0...1
XML Level 4			Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0
				Yes
				DoD EBTS 4.0
				Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8106_10

Triggering Event

Event Status

Mnemonic	EVENT-STATUS			Conditionality	0		
				Status	New-Emerging		
Description	The status of the related actions, events, or process steps.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	AN			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI NIST ITL 2011: Update 13 Type 11 Field Addition and NIEM 3.0						
XML Level 1	dod-ebts:TriggeringEvent				Cardinality	0..*	
XML Level 2	nc:Activity				Cardinality	0...1	
XML Level 3	nc:StatusCommentText				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8106_11

Triggering Event

Event Date

Mnemonic	EVENT_DATE			Conditionality	0		
				Status	New-Emerging		
Description	The date for related actions, events, or process steps.						
Field Min	Encoding Specific			Occur Min	0		
Field Max	Encoding Specific			Occur Max	1		
Char Types	ANS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI NIST ITL 2011: Update 13 Type 11 Field Addition and NIEM 3.0						
XML Level 1	dod-ebts:TriggeringEvent				Cardinality	0..*	
XML Level 2	nc:Activity				Cardinality	0...1	
XML Level 3	nc:ActivityDateRepresentation/nc:Date				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8107

Biometric Subject Privacy Act Indicator

Mnemonic	PRI_ACT			Conditionality	0		
				Status	Active		
Description	This field indicates whether U.S. citizens or U.S. persons who are being enrolled have signed a privacy act disclosure that would allow their biometrics to be captured.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	See Look Up Codes		
Code List	YES NO CODE						
Source	BSWG						
XML Level 1	dod-ebts:PersonPrivacyActIndicator				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8108

Employment

Encounter Comment

Mnemonic	ENCTR_COM			Conditionality	0		
				Status	Active		
Description	The comments or notes on the encounter mission in which the biometric sample was collected including any extenuating circumstances of the encounter.						
Field Min	1			Occur Min	0		
Field Max	1000			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:EncounterCommentText				Cardinality	0...1	
XML Level 2	nc:CommentText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8109

Repository Candidate List

Mnemonic	REPO_CAN			Conditionality	0		
				Status	Active		
Description	This grouped field shall contain a candidate list. It is composed of four information items: Name of DesignatedRepository, Candidate Identifier Type, Candidate Identifier and Candidate Name. These fields will be provided for each candidate in the list.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Referenced by DoD EBTS 2.0.Coordination with DoD ABIS required.Pending approval.						
XML Level 1	dod-ebts:RepositoryCandidateList				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8109_0

Repository Candidate List

Subfields: Repeating sets of information items

Mnemonic	REPO_CAN_0			Conditionality	0		
				Status	New-Active		
Description	Repeating subfield for Repository Candidate List.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	EBTS 4.0						
XML Level 1	dod-ebts:RepositoryCandidateList				Cardinality	0...*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8109_1

Repository Candidate List

Name of Designated Repository

Mnemonic	NDR			Conditionality	O		
				Status	Active		
Description	This field contains the numerical designation of the repository to be searched. Repository numbers are assigned by the CJIS Division. Multiple entries in this field will indicate a desire to search more than one repository.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List	DESIGNATED REPOSITORY NAME						
Source	Referenced by DoD EBTS 2.0.						
XML Level 1	dod-ebts:RepositoryCandidateList				Cardinality	0...*	
XML Level 2	nc:RepositoryID/nc:IdentificationID				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8109_2

Repository Candidate List

Repository Candidate Identifier Category Code

Mnemonic	CAN_ID_CAT_CD			Conditionality	0		
				Status	Active		
Description	The category of the candidate identification such as DoD Number, FBI Number, etc.						
Field Min	3			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	IDENTIFIER TYPE CODES						
Source	Referenced by DoD EBTS 2.0.						
XML Level 1	dod-ebts:RepositoryCandidateList				Cardinality	0...*	
XML Level 2	dod-ebts:RepositoryCandidateCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8109_3

Repository Candidate List

Repository Candidate Identifier

Mnemonic	CAN_ID	Conditionality	O
		Status	Active
Description	The identifying value for the candidate's identification.		
Field Min	1	Occur Min	0
Field Max	100	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Referenced by DoD EBTS 2.0.		
XML Level 1	dod-ebts:RepositoryCandidateList	Cardinality	0...*
XML Level 2	dod-ebts:CandidateID/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8109_4

Repository Candidate List

Repository Candidate Name

Mnemonic	CAN_NAM	Conditionality	O
		Status	Active
Description	The name of a person included in a Repository Candidate List. For DoD Candidate List/Candidate Name, use the "UNKNOWN, XX" when the name of the subject is unknown and is mandatory.		
Field Min	1	Occur Min	0
Field Max	100	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Referenced by DoD EBTS 2.0.		
XML Level 1	dod-ebts:RepositoryCandidateList	Cardinality	0...*
XML Level 2	nc:PersonFullName	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.811

Iris Image Omitted Reason

Mnemonic	IOMITTED			Conditionality	0
				Status	Active
Description	Reason why the iris image aka Type-17 record is not present in the associated file.				
Field Min	1			Occur Min	0
Field Max	1			Occur Max	1
Char Types	A			Special Chars	
Format	n/a			Constraints	n/a
Code List	IRIS IMAGE OMITTED REASON CODES				
Source	BSWG				
XML Level 1	dod-ebts:IrisImageOmittedReasoncode			Cardinality	0..1
XML Level 2	dod-ebts:IrisImageOmittedReason			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.8114

Collection Location

Mnemonic	COLL_BLO		Conditionality	0	
			Status	Active	
Description	The field is used to capture the geographic location where the biometric sample was collected for the entire submission. This field can also be used to capture the geographic location where the Type-2 data was collected if it is captured at a different location. This field was previously 2.301 BLO in DoD EBTS 1.2 and 2.8100 COLL_BLO with extended size in DoD EBTS 2.0. With ANSI/NIST ITL 1-2011, many logical records have included a field X.998 GEO that captures the geographic location where the data was collected. A Type-2 field is still needed for response transactions.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars		
Format	n/a		Constraints	n/a	
Code List					
Source	BSWG				
XML Level 1	dod-ebts:CollectionLocationDetail			Cardinality	0...1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8114_0

Collection Location

Subfields: Repeating sets of information items

Mnemonic	COLL_BLO_0				Conditionality	0		
					Status	New-Active		
Description	Repeating subfield for Collection Location.							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	*		
Char Types	n/a				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	EBTS 4.0							
XML Level 1	dod-ebts:CollectionLocationDetail					Cardinality	0...*	
XML Level 2						Cardinality		
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.8114_01

Collection Location

Universal Time Entry

Mnemonic	UTE			Conditionality	0		
				Status	Active		
Description	The coordinated universal time (UTC) where the biometric sample was collected. This time is independent of the actual time zone where the time and date is recorded. The date is YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. If sample collection time is unknown, set it to "00000000000000Z."						
Field Min	15			Occur Min	0		
Field Max	15			Occur Max	1		
Char Types	ANS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:CollectionLocationDetail				Cardinality	0...*	
XML Level 2	biom_2:CaptureUTCDateTime/nc:DateTime				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8114_02

Collection Location

Latitude Degree Value

Mnemonic	LTD	Conditionality	M↑
		Status	Active
Description	The second information item is latitude degree value (LTD). This is a value that specifies the degree of latitude. The value shall be between -90 (inclusive) and +90 (inclusive). The degrees may be expressed as an integer (without a decimal) or a real number including decimals. If decimals are present, then minutes and seconds shall be empty. Examples: Buenos Aires, Argentina: -34 (with minutes LTM = 36) NIST, Gaithersburg, Maryland: 39.137627 (no LTM or LTS)		
Field Min	1	Occur Min	1
Field Max	9	Occur Max	1
Char Types	NS	Special Chars	
Format	n/a	Constraints	=90 <= LTD <= 90
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectionLocationDetail	Cardinality	0...*
XML Level 2	nc:LatitudeDegreeValue	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8114_03

Collection Location

Latitude Minute Value

Mnemonic	LTM	Conditionality	O
		Status	Active
Description	This information item is latitude minute value (LTM). This is a value that specifies a minute of a degree. The value shall be between 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall be empty. Thus, the allowed special character is a period. The minute value can be empty, even if the degree value is an integer. LTM and LGM are co-conditional, so they shall both be present if either is present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	
Format	n/a	Constraints	0 <= LTM < 60
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectionLocationDetail	Cardinality	0...*
XML Level 2	nc:LatitudeMinuteValue	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8114_04

Collection Location

Latitude Second Value

Mnemonic	LTS	Conditionality	O
		Status	Active
Description	The fourth information item is the latitude second value (LTS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	0 <= LTS < 60
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectionLocationDetail	Cardinality	0...*
XML Level 2	nc:LatitudeSecondValue	Cardinality	0...1
XML Level 3	nc:GeographicCoordinateLongitude	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8114_05

Collection Location

Longitude Degree Value

Mnemonic	LGD	Conditionality	M↑
		Status	Active
Description	The fifth information item is the longitude degree value (LGD). It is a value that specifies the degree of a longitude. The value shall be between -180 (inclusive) and +180 (inclusive). If LTD is present, then LGD shall be present. The degrees may be expressed as whole numbers (without a decimal) or real numbers including decimals. If decimals are present, then minutes and seconds are empty. Examples: Buenos Aires, Argentina: -58 (with minutes LGM = 22), NIST, Gaithersburg, Maryland: -77.216032 (no LGM or LGS)		
Field Min	1	Occur Min	1
Field Max	10	Occur Max	1
Char Types	NS	Special Chars	
Format	n/a	Constraints	=-80 <= LGD <= 180
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectionLocationDetail	Cardinality	0...*
XML Level 2	nc:LongitudeDegreeValue	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8114_06

Collection Location

Longitude Minute Value

Mnemonic	LGM	Conditionality	0
		Status	Active
Description	The sixth information item is the longitude minute value (LGM). It is a value that specifies a minute of a degree. The value shall be from 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall not appear. The minute value is empty, even if the degree value is an integer. If LTM is present, then LGM shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	
Format	n/a	Constraints	0 <=LGS<60
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectionLocationDetail	Cardinality	0...*
XML Level 2	nc:LongitudeMinuteValue	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8114_07

Collection Location

Longitude Second Value

Mnemonic	LGS	Conditionality	0
		Status	Active
Description	The seventh information item is the longitude second value (LGS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer. If LTS is present, then LGS shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	0 <=LGM<60
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectionLocationDetail	Cardinality	0...*
XML Level 2	nc:LongitudeSecondValue	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8114_08

Collection Location

Elevation

Mnemonic	ELE	Conditionality	O
		Status	Active
Description	The eighth information item is elevation (ELE). It is expressed in meters. It is a numeric value. It is between -422 meters (Dead Sea) and 8848 meters (Mount Everest). Allowed special characters are the negative sign and the period.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	
Format	n/a	Constraints	-422.000 <ELE< 8848.000; real number
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectionLocationDetail	Cardinality	0...*
XML Level 2	nc:LocationElevation	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8114_09

Collection Location

Geodetic Datum Code

Mnemonic	GDC	Conditionality	O
		Status	Active
Description	The ninth information item is the geodetic datum code (GDC11). It is an alphanumeric value of 3 to 6 characters in length. This information item is used to indicate which coordinate system was used to represent the values in information items 2 through 7. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values.		
Field Min	3	Occur Min	0
Field Max	6	Occur Max	1
Char Types	AN	Special Chars	
Format	n/a	Constraints	n/a
Code List	GEOGRAPHIC COORDINATE DATUM CODE		
Source	BSWG		
XML Level 1	dod-ebts:CollectionLocationDetail	Cardinality	0...*
XML Level 2	biom_1:GeodeticDatumCoordinateSystemCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8114_10Collection Location*Geographic Coordinate Universal Transverse Mercator Zone*

Mnemonic	GCM	Conditionality	M↑
		Status	Active
Description	It is an alphanumeric value of 2 to 3 characters. This is a one or two digit UTM zone number followed by the 8 degree latitudinal band designator (which is a single letter).		
Field Min	2	Occur Min	1
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	
Format	n/a	Constraints	One or two integers followed by a single letter
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectionLocationDetail	Cardinality	0...*
XML Level 2	nc:UTMZoneNumeric	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8114_11Collection Location*Geographic Coordinate Universal Transverse Mercator Easting*

Mnemonic	GCE	Conditionality	M↑
		Status	Active
Description	The eleventh information item is the geographic coordinate universal transverse Mercator easting (GCE). It is an integer of 1 to 6 digits.		
Field Min	1	Occur Min	1
Field Max	6	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	integer
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectionLocationDetail	Cardinality	0...*
XML Level 2	nc:UTMEastingValue	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8114_12

Collection Location

Geographic Coordinate Universal Transverse Mercator Northing

Mnemonic	GCN			Conditionality	M↑		
				Status	Active		
Description	The twelfth information item is the geographic coordinate universal transverse Mercator northing (GCN). It is an integer of 1 to 8 digits.						
Field Min	1			Occur Min	1		
Field Max	8			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	integer		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:CollectionLocationDetail				Cardinality	0...*	
XML Level 2	nc:UTMNorthingValue				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8114_13

Collection Location

Geographic Reference Text

Mnemonic	GRT			Conditionality	0		
				Status	Active		
Description	It is a free form text describing a street address or other physical location (such as ‘Corner of Washington and Madison, Geneva, NY’).						
Field Min	1			Occur Min	0		
Field Max	150			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:CollectionLocationDetail				Cardinality	0...*	
XML Level 2	nc:LocationDescriptionText				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8114_14Collection Location*Geographic Coordinate Other System Identifier*

Mnemonic	OSI			Conditionality	M ↑		
				Status	Active		
Description	A fourteenth optional information item geographic coordinate other system identifier (OSI) allows for other coordinate systems. This information items specifies the system identifier. It is up to 10 characters in length. Examples are: • MGRS (Military Grid Reference System), • USNG (United States National Grid), • GARS (Global Area Reference System), • GEOREF (World Geographic Reference), • LANDMARK landmark (e.g. hydant) and position relative to the landmark.						
Field Min	1			Occur Min	1		
Field Max	10			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:CollectionLocationDetail				Cardinality	0...*	
XML Level 2	biom_1:GeographicLocationSystemName				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8114_15Collection Location*Geographic Coordinate Other System Value*

Mnemonic	OCV		Conditionality	M↑	
			Status	Active	
Description	A fifteenth optional information item, is the geographic coordinate other system value (OCV). It shall only be present if OSI is present in the record. It can be up to 126 characters in length. If OSI is LANDMARK, OCV is free text and may be up to 126 characters. For details on the formatting of OCV for the other coordinate systems shown in OSI as examples, see http://earth-info.nga.mil/GandG/coordsys/grids/referencesys.html .				
Field Min	1		Occur Min	1	
Field Max	126		Occur Max	1	
Char Types	U		Special Chars		
Format	n/a		Constraints	n/a	
Code List					
Source	BSWG				
XML Level 1	dod-ebts:CollectionLocationDetail			Cardinality	0...*
XML Level 2	biom_2:GeographicLocationText			Cardinality	1...1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8114_16

Collection Location

City

Mnemonic	CITY	Conditionality	O
		Status	Active
Description	Name of the city.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectionLocationDetail	Cardinality	0...*
XML Level 2	nc:LocationCityName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8114_17

Collection Location

State / Province

Mnemonic	STATE	Conditionality	O
		Status	Active
Description	The state, province or subdivision of a location.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:CollectionLocationDetail	Cardinality	0...*
XML Level 2	nc:LocationStateName	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8114_18

Collection Location

Country Code

Mnemonic	CTRY	Conditionality	M↑
		Status	Active
Description	The GENC alpha3 country code.		
Field Min	3	Occur Min	1
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	GENC ALPHA3 CODES		
Source	BSWG		
XML Level 1	dod-ebts:CollectionLocationDetail	Cardinality	0...*
XML Level 2	Genc:countryAlpha3CodeType	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8114_19

Collection Location

Village

Mnemonic	VLG	Conditionality	0
		Status	Active
Description	Small population unit, typically rural, held together by common economic and political ties.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:LocationVillageName	Cardinality	0...*
XML Level 2	dod-ebts:village	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8114_20

Collection Location

Record Category Code Referenced

Mnemonic	REC	Conditionality	O
		Status	Active
Description	The code for the logical record referenced.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:RecordCategoryCode		Cardinality 0...*
XML Level 2			Cardinality 0..1
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8115

Operational Personnel

Mnemonic	OPER	Conditionality	O
		Status	Active
Description	This set of fields shall identify the name information, contact information, unit/organization, role, rank/grade, identification type and the identification identifier of the personnel assigned to specific day-to-day responsibility for program activities.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:OperationalPersonnel		Cardinality 0..1
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8115_0

Operational Personnel

Subfields: Repeating sets of information items

Mnemonic	OPER_0				Conditionality	0		
					Status	New-Active		
Description	Repeating subfield for Operational Personnel.							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	*		
Char Types	n/a				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	EBTS 4.0							
XML Level 1	dod-ebts:OperationalPersonnel					Cardinality	0...*	
XML Level 2						Cardinality		
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.8115_1

Operational Personnel

Operational Personnel Unit/Organization

Mnemonic	OPORG			Conditionality	O		
				Status	Active		
Description	The name or identifier for the operational unit or organization the Operational Personnel belongs to.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:OperationalPersonnel				Cardinality	0...*	
XML Level 2	dod-ebts:OperationalUnitName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Operational Personnel

Operational Personnel Role

Mnemonic	OPRL			Conditionality	M↑		
				Status	Active		
Description	The role of the Operational Personnel.						
Field Min	1			Occur Min	1		
Field Max	50			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	OPERATIONAL PERSONNEL CODES						
Source	BSWG						
XML Level 1	dod-ebts:OperationalPersonnel				Cardinality	0...*	
XML Level 2	dod-ebts:OperationalPersonnelCategoryCode				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8115_3

Operational Personnel

Rank Grade Code

Mnemonic	RANK				Conditionality	0		
					Status	Active		
Description	The military rank or civilian rank of the person.							
Field Min	1				Occur Min	0		
Field Max	20				Occur Max	1		
Char Types	ANS				Special Chars			
Format	n/a				Constraints	n/a		
Code List	MILITARY RANK GRADE CODES							
Source	BSWG							
XML Level 1	dod-ebts:OperationalPersonnel					Cardinality	0...*	
XML Level 2	dod-ebts:RankGradeCode					Cardinality	0...1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes	

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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Operational Personnel

US Person Indicator

Mnemonic	USIND	Conditionality	O
		Status	Active
Description	The indicator of whether an individual is a citizen of the United States, an alien lawfully admitted for permanent residence in the United States, or a member of the U.S. Armed Forces.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	YES NO CODE		
Source	BSWG		
XML Level 1	dod-ebts:OperationalPersonnel	Cardinality	0...*
XML Level 2	dod-ebts:USPersonIndicator or od-ebts:OperationalPersonnelIdentification	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8115_5

Operational Personnel

Operational Personnel Identifier Type

Mnemonic	OPIDCATCD	Conditionality	M↑
		Status	Active
Description	The type of unique identifier of the Operational Personnel, such as Social Security Number.		
Field Min	3	Occur Min	1
Field Max	7	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	OPERATIONAL PERSONNEL IDENTIFIER CODES		
Source	BSWG		
XML Level 1	dod-ebts:OperationalPersonnel	Cardinality	0...*
XML Level 2	dod-ebts:OperationalPersonnelIDCategoryCode	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8115_6Operational Personnel*Operational Personnel Identifier*

Mnemonic	OPID	Conditionality	M↑
		Status	Active
Description	The value of the unique identifier of the Operational Personnel, such as Social Security Number.		
Field Min	1	Occur Min	1
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:OperationalPersonnel	Cardinality	0...*
XML Level 2	dod-ebts:OperationalPersonnelID/nc:IdentificationID	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8115_7Operational Personnel*Name - One*

Mnemonic	NAM1	Conditionality	M↑
		Status	Active
Description	The last name, surname or the family name of the person. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Nasab name, a patronymic or series of patronymics.		
Field Min	1	Occur Min	1
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:OperationalPersonnel	Cardinality	0...*
XML Level 2	nc:PersonSurName	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Operational Personnel

Name - Two

Mnemonic	NAM2			Conditionality	M↑		
				Status	Active		
Description	The personal name of a person. It is typically the first name in western culture. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Ism name, the main name of an Arab person; his or her personal name e.g. "Kareem" or "Fatimah".						
Field Min	1			Occur Min	1		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:OperationalPersonnel				Cardinality	0...*	
XML Level 2	nc:PersonGivenName				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8115_9

Operational Personnel

Name - Three

Mnemonic	NAM3			Conditionality	M↑		
				Status	Active		
Description	The middle name of a person. It is placed between the first given name and the surname. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Kunya name, the person's first-born son is used as a substitute for the ISM.						
Field Min	1			Occur Min	1		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:OperationalPersonnel				Cardinality	0...*	
XML Level 2	nc:PersonMiddleName				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Operational Personnel

Name - Four

Mnemonic	NAM4			Conditionality	0		
				Status	Active		
Description	A name of a person to represent the fourth name for a culture using four or five names e.g., a tribal or village name. It will be given the ranking of fourth importance of naming in the culture from which the person is associated. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Nisbah name, describes a person's occupation, geographic home area, or descent tribe, family, etc..						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:OperationalPersonnel				Cardinality	0...*	
XML Level 2	ebts:PersonFourthImportanceName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8115_11

Operational Personnel

Name - Five

Mnemonic	NAM5			Conditionality	0		
				Status	Active		
Description	A name of a person to represent the fifth name for a culture using four or five names e.g., a tribal or village name. It will be given the ranking of fifth importance of naming in the culture from which the person is associated. Enter "UNKNOWN" if this information item is required and not available at the time of collection. Can be mapped to the Arabic Laqab name, intended as a description of the person. Also can be used for the honorific title.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:OperationalPersonnel				Cardinality	0...*	
XML Level 2	ebts:PersonFifthImportanceName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Operational Personnel

Phone Number

Mnemonic	PHNUM	Conditionality	O
		Status	Active
Description	The full telephone number including international country code and area code. Space and hyphen are allowed.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:OperationalPersonnel	Cardinality	0...*
XML Level 2	nc:ContactTelephoneNumber or nc:FullTelephoneNumber or nc:TelephoneNumberFullID	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8115_13

Operational Personnel

Email Address

Mnemonic	EMAIL	Conditionality	O
		Status	Active
Description	Identifies an email box to which email messages are delivered. Application Profile might be more specific to what characters are allowed to be entered for the email address.		
Field Min	1	Occur Min	0
Field Max	254	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	dod-ebts:OperationalPersonnel	Cardinality	0...*
XML Level 2	nc:ContactEmailID	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Transportation

Mnemonic	TRANSPORT			Conditionality	0		
				Status	Active		
Description	A set of fields for capturing the method of transportation on which the biometric subject was encountered, the type of identification and identifier assigned to the conveyance. This field was previously 2.8105 CONVEY in DoD EBTS 2.0.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:TransportCategoryCode				Cardinality	0...*	
XML Level 2	dod-ebts:Transportation				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8116_1

Transportation

Transport Type

Mnemonic	TRANSPORT_TYP			Conditionality	0		
				Status	Active		
Description	The category of transportation on which the biometric subject was encountered. Additional valid values for TRUCK, BUS, BIKE, MTRB, ANML, and TRAIN have been added.						
Field Min	3			Occur Min	0		
Field Max	6			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	TRANSPORTATION TYPE CODES						
Source	BSWG						
XML Level 1	dod-ebts:TransportCategoryCode				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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2.8116_2

Transportation

Transport Identifier Category Code

Mnemonic	TRANSPORT_IDCATCD			Conditionality	0		
				Status	Active		
Description	The type of identification assigned to a conveyance.						
Field Min	2			Occur Min	0		
Field Max	20			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	TRANSPORTATION IDENTIFIER TYPE CODES						
Source	BSWG						
XML Level 1	dod-ebts:TransportCategoryCode				Cardinality	0...1	
XML Level 2	dod-ebts:TransportIdentificationCategoryCode				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8116_3

Transportation

Transport Identifier

Mnemonic	TRANSPORT_ID				Conditionality	0	
					Status	Active	
Description	The identifier assigned to a conveyance.						
Field Min	1				Occur Min	0	
Field Max	20				Occur Max	1	
Char Types	U				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	BSWG						
XML Level 1	dod-ebts:TransportCategoryCode					Cardinality	0...1
XML Level 2	dod-ebts:TransportIdentification/nc:IdentificationID					Cardinality	0...1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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2.8116_4

Transportation

Transport Make

Mnemonic	TRANSPORT_MAK				Conditionality	0		
					Status	Active		
Description	The manufacturer of the transportation device.							
Field Min	1				Occur Min	0		
Field Max	50				Occur Max	1		
Char Types	U				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	BSWG							
XML Level 1	dod-ebts:TransportCategoryCode					Cardinality	0...1	
XML Level 2	dod-ebts:TransportMakeName					Cardinality	0...1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes	

2.8116_5

Transportation

Transport Model

Mnemonic	TRANSPORT_MOD			Conditionality	O		
				Status	Active		
Description	The model number of the transportation device.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:TransportCategoryCode				Cardinality	0...1	
XML Level 2	dod-ebts:TransportModelName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8116_6Transportation*Transport Model Year*

Mnemonic	TRANSPORT_MODYR			Conditionality	O		
				Status	Active		
Description	The model year of the transportation device.						
Field Min	4			Occur Min	0		
Field Max	4			Occur Max	1		
Char Types	N			Special Chars			
Format	YYYY			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:TransportCategoryCode				Cardinality	0...1	
XML Level 2	dod-ebts:TransportModelYear				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8116_7Transportation*Transport Color*

Mnemonic	TRANSPORT_COL				Conditionality	0	
					Status	Active	
Description	The primary color of the transportation device.						
Field Min	1				Occur Min	0	
Field Max	50				Occur Max	1	
Char Types	AN				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	BSWG						
XML Level 1	dod-ebts:TransportCategoryCode					Cardinality	0...1
XML Level 2	dod-ebts:TransportColorDescriptionText					Cardinality	0...1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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2.8116_8

Transportation

Comment

Mnemonic	COM			Conditionality	O		
				Status	Active		
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard. The FBI field 2.067 Image Capture Equipment is only used with fingerprint image capture equipment. A new field 2.8118 has been created to close the gap to capture the MMS information for Type-2 or the entire submission. An information item for Record Category Code has also been added to allow designation which logical record the information does pertain to, either the entire submission or just the Type-2 data only.						
Field Min	1			Occur Min	0		
Field Max	126			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:TransportCategoryCode				Cardinality	0...1	
XML Level 2	nc:CommentText				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8117

Facial Image Omitted Reason

Mnemonic	FOMITTED				Conditionality	O	
					Status	Active	
Description	Reason why the facial image aka as full frontal pose Type-10 record is not present in the associated file.						
Field Min	2				Occur Min	0	
Field Max	2				Occur Max	1	
Char Types	A				Special Chars		
Format	n/a				Constraints	n/a	
Code List	FACIAL IMAGE OMITTED REASON						
Source	BSWG						
XML Level 1	dod-ebts:FacialImageOmittedReason					Cardinality	
XML Level 2	biom_2:FacialImageMissingReasonCode					Cardinality	0...1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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2.8118

Collection Equipment Make/Model/Serial Number

Mnemonic	COLL_MMS_0	Conditionality	0
		Status	Active
Description	This field is used to capture the Make, Model and Serial Number MMS of the equipment used to collect data for the entire submission. This field can also be used to indicate of the equipment used to capture just the Type-2 data. With ANSI/NIST ITL 1-2011, many logical records include a field X.904 MMS and 17.019 MMS that capture the make/model/serial number of the equipment the sample was collected with. A Type-2 field is still needed to capture the MMS information for just the Type-2 data or for the entire submission.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	biom_2:ImageCaptureType	Cardinality	0...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8118_0

Collection Equipment Make/Model/Serial Number

Subfields: Repeating sets of information items

Mnemonic	COLL_MMS	Conditionality	0
		Status	New-Active
Description	Repeating subfield for Collection Equipment Make/Model/Serial Number.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	*
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	EBTS 4.0		
XML Level 1	biom_2:ImageCaptureType	Cardinality	0..*
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8118_1

Collection Equipment Make/Model/Serial Number

Make

Mnemonic	MAK			Conditionality	O		
				Status	Active		
Description	The name of the manufacturer for the capture device.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	biom_2:ImageCaptureType				Cardinality	0..*	
XML Level 2	biom_2:CaptureDeviceMakeText				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8118_2

Collection Equipment Make/Model/Serial Number

Model

Mnemonic	MOD			Conditionality	O		
				Status	Active		
Description	The model number for the capture device.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	biom_2:ImageCaptureType				Cardinality	0..*	
XML Level 2	biom_2:CaptureDeviceModelText				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8118_3Collection Equipment Make/Model/Serial Number*Serial Number*

Mnemonic	SER	Conditionality	O
		Status	Active
Description	The serial number for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	BSWG		
XML Level 1	biom_2:ImageCaptureType	Cardinality	0..*
XML Level 2	biom_2:CaptureDeviceSerialNumberText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8118_4Collection Equipment Make/Model/Serial Number*Record Category Code Referenced*

Mnemonic	REC	Conditionality	O
		Status	Active
Description	The code for the logical record referenced.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List	RECORD CATEGORY CODE REFERENCED CODES		
Source	BSWG		
XML Level 1	biom_2:ImageCaptureType	Cardinality	0..*
XML Level 2	dod-ebts:RecordCategoryCode	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8118_5Collection Equipment Make/Model/Serial NumberCapture Location

Mnemonic	CAPT_LOC				Conditionality	O			
					Status	New-Emerging			
Description	A location where a biometric sample was collected.								
Field Min	1				Occur Min	0			
Field Max	50				Occur Max	1			
Char Types	U				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	NIEM Biometric Domain								
XML Level 1	biom_2:ImageCaptureType					Cardinality	0..*		
XML Level 2	biom_2:CaptureLocation					Cardinality	0...1		
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

2.8118_6Collection Equipment Make/Model/Serial NumberCapture UTC

Mnemonic	CAPT.UTC			Conditionality	O		
				Status	New-Emerging		
Description	A UTC date and time for the capture of a biometric sample.						
Field Min	Encoding Specific			Occur Min	0		
Field Max	Encoding Specific			Occur Max	1		
Char Types	ANS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NIEM Biometric Domain						
XML Level 1	biom_2:ImageCaptureType				Cardinality	0..*	
XML Level 2	biom_2:CaptureUTCDateTime/nc:DateTime				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8118_7Collection Equipment Make/Model/Serial Number*Capture Date*

Mnemonic	CAPT_DATE				Conditionality	0		
					Status	New-Emerging		
Description	A date that an image was captured.							
Field Min	Encoding Specific				Occur Min	0		
Field Max	Encoding Specific				Occur Max	1		
Char Types	ANS				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	NIEM Biometric Domain							
XML Level 1	biom_2:ImageCaptureType				Cardinality	0..*		
XML Level 2	biom_2:CaptureDate/nc:Date				Cardinality	0...1		
XML Level 3					Cardinality			
XML Level 4					Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.8118_8Collection Equipment Make/Model/Serial Number*Device Identification*

Mnemonic	CAPT_ID			Conditionality	O		
				Status	New-Emerging		
Description	An identification of a capture device or source of an image.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	NIEM Biometric Domain						
XML Level 1	biom_2:ImageCaptureType				Cardinality	0..*	
XML Level 2	biom_2:CaptureDeviceIdentification/nc:IdentificationID				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8118_9

Collection Equipment Make/Model/Serial Number

Capture Organization

Mnemonic	CAPT_ORG				Conditionality	0		
					Status	New-Emerging		
Description	An organization that originally captured an image.							
Field Min	1				Occur Min	0		
Field Max	50				Occur Max	1		
Char Types	U				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	NIEM Biometric Domain							
XML Level 1	biom_2:ImageCaptureType					Cardinality	0..*	
XML Level 2	biom_2:CaptureOrganization					Cardinality	0...1	
XML Level 3	nc:OrganizationDescriptionText					Cardinality	0..1	
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.8118_10

Collection Equipment Make/Model/Serial Number

Capture Resolution

Mnemonic	CAPT_RESOL				Conditionality	0		
					Status	New-Emerging		
Description	A data concept for a minimum or native resolution.							
Field Min	1				Occur Min	0		
Field Max	25				Occur Max	1		
Char Types	U				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	NIEM Biometric Domain							
XML Level 1	biom_2:ImageCaptureType					Cardinality	0..*	
XML Level 2	biom_2:CaptureResolution					Cardinality	0...1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.8118_11Collection Equipment Make/Model/Serial Number*Capture Vertical Pixel Density Value*

Mnemonic	CAPT_PIXEL				Conditionality	O			
					Status	New-Emerging			
Description	A scanned pixel density in the vertical direction.								
Field Min	1				Occur Min	0			
Field Max	25				Occur Max	1			
Char Types	N				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	NIEM Biometric Domain								
XML Level 1	biom_2:ImageCaptureType					Cardinality	0..*		
XML Level 2	biom_2:CaptureVerticalPixelDensityValue					Cardinality	0...1		
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

2.8118_12Collection Equipment Make/Model/Serial Number*Capture Device Monitoring Mode*

Mnemonic	CAPT_MONITOR				Conditionality	O	
					Status	New-Emerging	
Description	A data concept for a level of human monitoring for an image capture device.						
Field Min	1				Occur Min	0	
Field Max	25				Occur Max	1	
Char Types	U				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	NIEM Biometric Domain						
XML Level 1	biom_2:ImageCaptureType					Cardinality	0..*
XML Level 2	biom_2:CaptureDeviceMonitoringMode					Cardinality	0...1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8203Template Extraction Algorithm

Mnemonic	TEA			Conditionality	0		
				Status	Active		
Description	The algorithm used to extract template data from an existing biometric image. It consists of Template Extraction Algorithm Name and Template Extraction Algorithm Version.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Blue Force capability.Pending approval.						
XML Level 1	dod-ebts: TemplateExtractionAlgorithm				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8203_1Template Extraction Algorithm NameTemplate Extraction Algorithm Version

Mnemonic	TEA_NAME			Conditionality	M↑		
				Status	Active		
Description	The name of the algorithm used to extract template data from an existing biometric image.						
Field Min	1			Occur Min	1		
Field Max	100			Occur Max	1		
Char Types	AN			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Blue Force capability.Pending approval.						
XML Level 1	dod-ebts:TemplateExtractionAlgorithm				Cardinality	0..1	
XML Level 2	dod-ebts:ExtractionAlgorithmName				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8203_2Template Extraction Algorithm*Template Extraction Algorithm Version*

Mnemonic	TEA_VER			Conditionality	0		
				Status	Active		
Description	The version of the algorithm used to extract template data from an existing biometric image.						
Field Min	1			Occur Min	0		
Field Max	10			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Blue Force capability.Pending approval.						
XML Level 1	dod-ebts:TemplateExtractionAlgorithm				Cardinality	0..1	
XML Level 2	dod-ebts:ExtractionAlgorithmVersion				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8206Additional Response

Mnemonic	ARSP		Conditionality	0	
			Status	Active	
Description	This set of fields shall be used in responses when an additional repository has been searched. It contains information received from the repository that generated an additional response. Multiple repositories may be searched, therefore multiple occurrences of this field shall be allowed. It consists of Response Source, Response Result, Response Identifier, and Response Rap Sheet.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars		
Format	n/a		Constraints	n/a	
Code List					
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required. Pending approval				
XML Level 1	dod-ebts:AdditionalReponse			Cardinality	0..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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Additional Response

Subfields: Repeating sets of information items

Mnemonic	ARSP_0	Conditionality	O
		Status	New-Active
Description	Repeating subfield for Additional Response.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	*
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	EBTS 4.0		
XML Level 1	dod-ebts:AdditionalReponse		Cardinality 0..*
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8206_1

Additional Response

Name of Designated Repository

Mnemonic	NDR	Conditionality	O
		Status	Active
Description	This field contains the numerical designation of the repository to be searched. Repository numbers are assigned by the CJIS Division. Multiple entries in this field will indicate a desire to search more than one repository. This field identifies the repository that generated the additional response.		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	N	Special Chars	
Format	n/a	Constraints	n/a
Code List	DESIGNATED REPOSITORY NAME		
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required.		
XML Level 1	dod-ebts:AdditionalReponse		Cardinality 0..*
XML Level 2	nc:RepositoryID/nc:IdentificationID		Cardinality 0...1
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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2.8206_2

Additional Response

Additional Response Result Code

Mnemonic	RSLTCD			Conditionality	O		
				Status	Active		
Description	This field contains the result generated by the repository that generated the additional response.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	ADDITIONAL RESPONSE RESULT CODES						
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required.						
XML Level 1	dod-ebts:AdditionalReponse				Cardinality	0..*	
XML Level 2	dod-ebts:ResultCode/nc:IdentificationID				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8206_3

Additional Response

Additional Response Identifier Category Code

Mnemonic	ARIDCATCD			Conditionality	0		
				Status	Active		
Description	The category of the additional response identification such as DoD Number, FBI Number, etc.						
Field Min	3			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	IDENTIFIER TYPE CODES						
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required.						
XML Level 1	dod-ebts:AdditionalReponse				Cardinality	0..*	
XML Level 2	dod-ebts:ResponseIdentifierCategoryCode				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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2.8206_4

Additional Response

Additional Response Identifier

Mnemonic	ARID	Conditionality	O
		Status	Active
Description	This conditional field shall contain the unique identifier used or generated by the repository that generated the additional response.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required.		
XML Level 1	dod-ebts:AdditionalReponse	Cardinality	0..*
XML Level 2	dod-ebts:ReponseID/nc:IdentificationID	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8206_5

Additional Response

Additional Response Rap Sheet

Mnemonic	ERS	Conditionality	O
		Status	Active
Description	This conditional field contains the electronic rap sheet generated by the Secondary Search Repository in the case of an Ident. In the case of an error, this field shall contain the error message returned by the repository that generated the additional response.		
Field Min	1	Occur Min	0
Field Max	200,000	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required.		
XML Level 1	dod-ebts:AdditionalReponse	Cardinality	0..*
XML Level 2	j:RapSheet	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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2.8207

Request Secondary Search

Mnemonic	SCND_SRCH			Conditionality	0		
				Status	Active		
Description	This set of fields, if provided, shall indicate which repository, the transaction type and secondary search retention indicator for a secondary search. The default is NOT to send the EBTS file to any other repository, unless secondary search is requested. Coordination required with DFBA Standards Branch before uage.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required.						
XML Level 1	dod-ebts:SecondarySearch				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8207_1

Request Secondary Search

Name of Designated Repository

Mnemonic	NDR			Conditionality	0		
				Status	Active		
Description	This field contains the numerical designation of the repository to be searched. Repository numbers are assigned by the CJIS Division. Multiple entries in this field will indicate a desire to search more than one repository. A submission will be submitted to the primary repository via the DoD EBTS. This field indicates which additional repository should be searched using the same information.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List	DESIGNATED REPOSITORY NAME						
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required.						
XML Level 1	dod-ebts:SecondarySearch				Cardinality	0..1	
XML Level 2	nc:RepositoryID/nc:IdentificationID				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8207_2

Request Secondary Search

Request Secondary Search Transaction Type

Mnemonic	TOT	Conditionality	O
		Status	Active
Description	This field contains an identifier, designating the type of transaction to secondary search and subsequent processing that the logical file should be given.		
Field Min	3	Occur Min	0
Field Max	100	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	see DFBA before implementation
Code List			
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required.		
XML Level 1	dod-ebts:SecondarySearch	Cardinality	0..1
XML Level 2	dod-ebts:TransactionType	Cardinality	0...1
XML Level 3	Note: Said : look for BIMA before Implement	Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

2.8207_3

Request Secondary Search

Secondary Search Retention Indicator

Mnemonic	RET	Conditionality	O
		Status	Active
Description	A value of "Y" means retention is acceptable, a value of "N" means the secondary repository should not retain the submission. Secondary repositories are not necessarily bound by this field and policy may override the value present.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	see Look Up Codes
Code List	SEARCH RETENTION CODES		
Source	Referenced by DoD EBTS 2.0. Coordination with DoD ABIS required.		
XML Level 1	dod-ebts:SecondarySearch	Cardinality	0..1
XML Level 2	dod-ebts:RetentionIndicator	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8399

Caveat

Mnemonic	CAV			Conditionality	0		
				Status	Active		
Description	The Caveat set allows an EBTS file to be annotated with caveat, usage or handling instructions, disclaimer or general information. The set consists of 6 information items:Caveat Originator Country Code, Caveat Originating Agency Name, Caveat Originating Agency Identifier, Caveat Date, Caveat Type and Caveat Text. Example: **For US DoD training purposes only** This data is provided by Freedomian Forces to your forces//agency//department in confidence, for internal use only. It can only be used to support Operation Global Mission mandates and must not be used in a manner inconsistent with international law. Data must be extinguished from any record under the control of your forces//agency//department 5 years after input the latest, unless the individual poses a current threat. Any use of this data for purposes outside of the above mandate requires prior approval by the Government of Freedomia. **For US DoD training purposes only**						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	ge			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:Caveat				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8399_0

Caveat

Subfields: Repeating sets of information items

Mnemonic	CAV_0				Conditionality	0		
					Status	New-Active		
Description	Repeating subfield for Caveat.							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	4		
Char Types	n/a				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	EBTS 4.0							
XML Level 1	dod-ebts:Caveat					Cardinality	0...4	
XML Level 2						Cardinality		
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8399_1

Caveat

Caveat Originating Agency Country Code

Mnemonic	CAV_CNTRY_CD			Conditionality	M↑		
				Status	Active		
Description	The GENC alpha3 country code of the organization originating the caveat. The DoD EBTS Default for this field is the GENC three character alpha codelist (genc:CountryAlpha3CodeType).						
Field Min	3			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:Caveat				Cardinality	0...4	
XML Level 2	nc:LocationCountryGENCCode				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8399_2

Caveat

Caveat Originating Agency Name

Mnemonic	CAV_ORI_NAME			Conditionality	M↑		
				Status	Active		
Description	The name of the administration or organization originating the caveat.						
Field Min	1			Occur Min	0		
Field Max	100			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:Caveat				Cardinality	0...4	
XML Level 2	dod-ebts:CaveatOriginatingAgencyName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8399_3

Caveat

Caveat Originating Agency Identifier

Mnemonic	CAV_ORI			Conditionality	M ↑
				Status	Active
Description	The identifier of the administration or organization originating the caveat. In some cases, the Caveat Originating Agency is not the same as the Transaction Originating Agency specified in Field 1.008. The Caveat ORI might not be known. Enter 'XXXXXXXX' if the identifier is not applicable.				
Field Min	9			Occur Min	0
Field Max	9			Occur Max	1
Char Types	AN			Special Chars	
Format	n/a			Constraints	n/a
Code List					
Source	BSWG				
XML Level 1	dod-ebts:Caveat			Cardinality	0...4
XML Level 2	dod-ebts:CaveatOriginatingAgencyIdentification/nc:IdentificationID			Cardinality	0...1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

2.8399_4

Caveat

Caveat Date

Mnemonic	CAV_DT			Conditionality	M↑		
				Status	Active		
Description	The date when the caveat is published.						
Field Min	Encoding Specific			Occur Min	0		
Field Max	Encoding Specific			Occur Max	1		
Char Types	ANS			Special Chars			
Format	YYYYMMDD			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:Caveat				Cardinality	0...4	
XML Level 2	dod-ebts:CaveatDate/nc:Date				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8399_5

Caveat

Caveat Category Code

Mnemonic	CAV_CAT_CD			Conditionality	M↑		
				Status	Active		
Description	The kind of caveat described in the text field. Ex: CAVEAT / USAGE / INFO / DISCLAIMER / HANDELING.						
Field Min	1			Occur Min	0		
Field Max	10			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	CAVEAT CATEGORY CODES						
Source	BSWG						
XML Level 1	dod-ebts:Caveat				Cardinality	0...4	
XML Level 2	dod-ebts:CaveatCategoryCode				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

2.8399_6

Caveat

Caveat Text

Mnemonic	CAV_TXT			Conditionality	M↑		
				Status	Active		
Description	The specific text for the type of caveat including retention and restriction requirements. For example, words describing the retention, non-releasability and searching restriction may be in the 'Caveat Text' information item. The first 1500 characters should be used for the Caveat Text itself. The remaining portion is opened for other usage						
Field Min	1			Occur Min	0		
Field Max	30000			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	BSWG						
XML Level 1	dod-ebts:Caveat				Cardinality	0...4	
XML Level 2	nc:CaveatText				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8399_7

Caveat

Caveat Releasability

Mnemonic	CAV_REL				Conditionality	M↑		
					Status	New-Active		
Description	This text contains the releasability requirements for the data in the transmission.							
Field Min	1				Occur Min	0		
Field Max	30000				Occur Max	1		
Char Types	ANS				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	FBSWG							
XML Level 1	dod-ebts:Caveat					Cardinality	0...4	
XML Level 2	nc:CaveatText					Cardinality	0...1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.8399_8

Caveat

Caveat Originating Country POC Information

Mnemonic	CAV_CNT_POC			Conditionality	M↑		
				Status	New-Active		
Description	Point of Contact information for the country or agency which originating the caveat.						
Field Min	1			Occur Min	0		
Field Max	30000			Occur Max	1		
Char Types	ANS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	FBSWG						
XML Level 1	dod-ebts:Caveat				Cardinality	0...4	
XML Level 2	nc:CaveatText				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8399_9

Caveat

Caveat Adjudicator POC Information

Mnemonic	CAV_ADJ_POC				Conditionality	M↑		
					Status	New-Active		
Description	Point of Contact information for the individual adjudicating the data to generate caveat information.							
Field Min	1				Occur Min	0		
Field Max	30000				Occur Max	1		
Char Types	ANS				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	FBSWG							
XML Level 1	dod-ebts:Caveat					Cardinality	0...4	
XML Level 2	nc:CaveatText					Cardinality	0...1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.8399_10

Caveat

Caveat Source Reliability

Mnemonic	CAV_SRC			Conditionality	M↑		
				Status	New-Active		
Description	A code describing the reliability of the source of the information provided, ranging from "Reliable" (A) to "Unreliable" (E). In every instance the reporting is based on previous reporting from the source. If there has been no previous reporting, the source must be rated as "Cannot Be Judged" (F). An "F" rating does not necessarily mean that the source cannot be trusted, but that there is no reporting history and therefore no basis for making a determination. See Look Up Codes for valid entries.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars			
Format	X			Constraints	See Look Up Codes		
Code List	SOURCE RELIABILITY CODES						
Source	FBSWG						
XML Level 1	dod-ebts:Caveat				Cardinality	0...4	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8399_11

Caveat

Caveat Content Reliability

Mnemonic	CAV_CON		Conditionality	M↑	
			Status	New-Active	
Description	A code describing the reliability of the content of the information provided. The highest degree of confidence in reported information is given to that which has been confirmed by outside sources. The degree of confidence decreases if the information is not confirmed, and/or does not make logical sense. The lowest evaluation rating of "5" means that the information is considered to be false. A rating of "6" does not necessarily mean false information, but is generally used to indicate that no determination can be made since the information is completely new. See Look Up Codes for valid entries.				
Field Min	1		Occur Min	0	
Field Max	1		Occur Max	1	
Char Types	A		Special Chars		
Format	X		Constraints	See Look Up Codes	
Code List	INFORMATION CONTENT RELIABILITY CODES				
Source	FBSWG				
XML Level 1	dod-ebts:Caveat			Cardinality	0...4
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

2.8502

Access Location Badge Color

Mnemonic	BADGE_CLR			Conditionality	0		
				Status	Active		
Description	The subject's level of badge color. The set consists of the badge color and the authority approval status code.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:AccessLocationBadgeColor				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8502_1

Access Location Badge Color

Badge Color Code

Mnemonic	BADGE_CLR_CD	Conditionality	O
		Status	Active
Description	The badge color assigned to subject.		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	BADGE COLOR CODES		
Source	Developed for Base Access capability.		
XML Level 1	dod-ebts:AccessLocationBadgeColor	Cardinality	0..1
XML Level 2	dod-ebts:BadgeColorCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8502_2

Access Location Badge Color

Badge Clearance Code

Mnemonic	BADGE_CLR_AUTH_CD	Conditionality	O
		Status	Active
Description	The level of the authority and approval status obtained.		
Field Min	6	Occur Min	0
Field Max	6	Occur Max	1
Char Types	AS	Special Chars	
Format	n/a	Constraints	n/a
Code List	AUTHORITY APPROVAL STATUS CODES		
Source	Developed for Base Access capability.		
XML Level 1	dod-ebts:AccessLocationBadgeColor	Cardinality	0..1
XML Level 2	dod-ebts:BadgeClearanceCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8505

Screening Document Requirement Indicator

Mnemonic	LEP			Conditionality	0		
				Status	Emerging		
Description	An indicator for the Locally Employed Personnel LEP Screening Document is required for applicants for the type of badge requested. As a general guideline, the LEP Screening Document is required for applicants wanting a Red, Yellow, or Orange badge; however the requirement can be overridden based on local security requirements.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	SCREENING DOCUMENT REQUIREMENT INDICATOR CODES						
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:LocallyEmployedIndicator				Cardinality	0..1	
XML Level 2	nc:DocumentTitleText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8507

Project Name

Mnemonic	PROJ			Conditionality	0		
				Status	Emerging		
Description	The name of the project under which employment access is being requested.						
Field Min	2			Occur Min	0		
Field Max	30			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Blue Force capability.						
XML Level 1	dod-ebts:Project				Cardinality	0..*	
XML Level 2	nc:ActivityName				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8508

Contract

Mnemonic	CONTRACT				Conditionality	0	
					Status	Emerging	
Description	The set consists of the contract number and the contract expiration date.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	Developed for Blue Force capability.						
XML Level 1					Cardinality		
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8508_0

Contract

Subfields: Repeating sets of information items

Mnemonic	CONTRACT_0				Conditionality	0		
					Status	Emerging		
Description	Repeating subfield for Contract.							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	*		
Char Types	n/a				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	EBTS 4.0							
XML Level 1	dod-ebts:Contract					Cardinality	0..*	
XML Level 2						Cardinality		
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

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2.8508_1

Contract

Contract Number

Mnemonic	CNTRACT_NUM	Conditionality	O
		Status	Emerging
Description	The number identifying the legal agreement with an employer.		
Field Min	1	Occur Min	0
Field Max	58	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Blue Force capability.		
XML Level 1	dod-ebts:Contract	Cardinality	0..*
XML Level 2	nc:DocumentIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8508_2

Contract

Contract Expiration Date

Mnemonic	CNTRACT_EXPDT	Conditionality	O
		Status	Emerging
Description	The date on which the contract with the employer expires.		
Field Min	Encoding Specific	Occur Min	0
Field Max	Encoding Specific	Occur Max	1
Char Types	N	Special Chars	
Format	YYYYMMDD	Constraints	n/a
Code List			
Source	Developed for Blue Force capability.		
XML Level 1	dod-ebts:Contract	Cardinality	0..*
XML Level 2	dod-ebts:ContractExpirationDate/nc:Date	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8509Access Location Badge

Mnemonic	BADGE	Conditionality	0
		Status	Emerging
Description	The subject's badge for an access location. The set consists of the badge number, badge color code, badge status code, issue date, expiration date, issuance organization, and issuance office.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Base Access capability.		
XML Level 1	dod-ebts:AccessLocationBadge		Cardinality 0..1
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8509_0Access Location Badge*Subfields: Repeating sets of information items*

Mnemonic	BADGE_0	Conditionality	0
		Status	Emerging
Description	Repeating subfield for Access Location Badge.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	*
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	EBTS 4.0		
XML Level 1	dod-ebts:AccessLocationBadge		Cardinality 0..*
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Access Location Badge

Access Location Badge Number

Mnemonic	BADGE_NUM			Conditionality	0		
				Status	Emerging		
Description	The designated number on the badge.						
Field Min	1			Occur Min	0		
Field Max	100			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:AccessLocationBadge				Cardinality	0..*	
XML Level 2	dod-ebts:BadgeNumber				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8509_2

Access Location Badge

Access Location Badge Color Code

Mnemonic	BADGE_CLR_CD			Conditionality	0		
				Status	Emerging		
Description	The badge color assigned to subject.						
Field Min	3			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	BADGE COLOR CODES						
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:AccessLocationBadge				Cardinality	0..*	
XML Level 2	dod-ebts:BadgeColorCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8509_3

Access Location Badge

Access Location Badge Status Code

Mnemonic	BADGE_STAT_CD				Conditionality	0	
					Status	Emerging	
Description	The status of an identification badge, such as valid, replaced, expired.						
Field Min	1				Occur Min	0	
Field Max	1				Occur Max	1	
Char Types	A				Special Chars		
Format	n/a				Constraints	n/a	
Code List	BADGE STATUS CODES						
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:AccessLocationBadge					Cardinality	0..*
XML Level 2	dod-ebts:BadgeStatusCode					Cardinality	0..1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8509_4

Access Location Badge

Access Location Badge Issue Date

Mnemonic	BADGE_ISSDT			Conditionality	0		
				Status	Emerging		
Description	The date the badge was issued.						
Field Min	Encoding Specific			Occur Min	0		
Field Max	Encoding Specific			Occur Max	1		
Char Types	ANS			Special Chars			
Format	YYYYMMDD			Constraints	n/a		
Code List							
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:AccessLocationBadge				Cardinality	0..*	
XML Level 2	nc:IdentificationEffectiveDate/nc:Date				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8509_5

Access Location Badge

Access Location Badge Expiration Date

Mnemonic	BADGE_EXPDT	Conditionality	O
		Status	Emerging
Description	A date after which the badge is no longer valid.		
Field Min	Encoding Specific	Occur Min	0
Field Max	Encoding Specific	Occur Max	1
Char Types	ANS	Special Chars	
Format	YYYYMMDD	Constraints	n/a
Code List			
Source	Developed for Base Access capability.		
XML Level 1	dod-ebts:AccessLocationBadge	Cardinality	0..*
XML Level 2	nc:IdentificationExpirationDate/nc:Date	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8509_6

Access Location Badge

Access Location Badge Issuance Organization Name

Mnemonic	BADGE_ISSORG	Conditionality	O
		Status	Emerging
Description	The name of the organization or system that issued the badge.		
Field Min	1	Occur Min	0
Field Max	100	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Base Access capability.		
XML Level 1	dod-ebts:AccessLocationBadge	Cardinality	0..*
XML Level 2	OrganizationName/nc:TextType	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.851

Access Location

Mnemonic	ACC_LOC_APT_PERM				Conditionality	0			
					Status	Emerging			
Description	The subject's level of airport installation access. The set consists of the airport installation type, the force protection condition and the authority approval status code.								
Field Min	n/a				Occur Min	0			
Field Max	n/a				Occur Max	1			
Char Types	n/a				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	Developed for Base Access capability. Pending approval.								
XML Level 1	dod-ebts:AccessLocationInstalationPermission					Cardinality	0..1		
XML Level 2						Cardinality	0..1		
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

2.8510_0

Access Location

Subfields: Repeating sets of information items

Mnemonic	ACC_LOC_APT_PERM_0				Conditionality	0		
					Status	Emerging		
Description	Repeating subfield for Access Location.							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	*		
Char Types	n/a				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	EBTS 4.0							
XML Level 1	dod-ebts:AccessLocationInstalationPermission					Cardinality	0..*	
XML Level 2						Cardinality		
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.8510_1Access Location*Access Location Airport Installation Category Code*

Mnemonic	ACC_LOC_APT_PERM_APT_LOC_TYP		Conditionality	O
			Status	Emerging
Description	The type of airport installation at an access location.			
Field Min	3	Occur Min	0	
Field Max	7	Occur Max	1	
Char Types	AN	Special Chars		
Format	n/a	Constraints	n/a	
Code List	AIRPORT INSTALLATION CODES			
Source	Developed for Base Access capability. Pending approval.			
XML Level 1	dod-ebts:AccessLocationInstalationPermission		Cardinality	0..*
XML Level 2	dod-ebts:AirportInstallationCode"		Cardinality	0..1
XML Level 3			Cardinality	
XML Level 4			Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0 No DoD EBTS 4.0 Yes

2.8510_2Access Location*Force Protection Condition Code*

Mnemonic	ACC_LOC_APT_PERM_FP_CD		Conditionality	O
			Status	Emerging
Description	A DoD-approved system standardizing DoD's identification of and recommended preventive actions and responses to terrorist threats against U.S. personnel and facilities. The system is the principal means for a commander to apply an operational decision on how to protect against terrorism and facilitates coordination among DoD Components and support for antiterrorism activities.			
Field Min	11	Occur Min	0	
Field Max	13	Occur Max	1	
Char Types	AS	Special Chars		
Format	n/a	Constraints	n/a	
Code List	FORCE PROTECTION CONDITION CODES			
Source	Developed for Base Access capability. Pending approval. Codes are source from DoD Instructions 2000.17.			
XML Level 1	dod-ebts:AccessLocationInstalationPermission		Cardinality	0..*
XML Level 2	dod-ebts:ForceProtectionConditionCode		Cardinality	0..1
XML Level 3			Cardinality	
XML Level 4			Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0 No DoD EBTS 4.0 Yes

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2.8510_3

Access Location

Authority Approval Status Code

Mnemonic	ACC_LOC_APT_PERM_AUTH_CD			Conditionality	0		
				Status	Emerging		
Description	The level of the authority and approval status obtained.						
Field Min	6			Occur Min	0		
Field Max	6			Occur Max	1		
Char Types	AS			Special Chars			
Format	n/a			Constraints	n/a		
Code List	AUTHORITY APPROVAL STATUS CODES						
Source	Developed for Base Access capability. Pending approval.						
XML Level 1	dod-ebts:AccessLocationInstallationPermission				Cardinality	0..*	
XML Level 2	dod-ebts:AuthorityApprovalStatusCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8511

Access Location Required Month

Mnemonic	ACC_LOC_MONTH			Conditionality	0		
				Status	Emerging		
Description	The subject's level of months access required for a location. The set consists of the months the access is required and the authority approval status code.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Base Access capability. Pending approval.						
XML Level 1	dod-ebts:AccessLocationRequiredMonth				Cardinality	0..1	
XML Level 2					Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8511_0

Access Location Required Month

Subfields: Repeating sets of information items

Mnemonic	ACC_LOC_MONTH_0			Conditionality	O		
				Status	Emerging		
Description	Repeating subfield for Access Location Required Month.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	EBTS 4.0						
XML Level 1	dod-ebts:AccessLocationRequiredMonth				Cardinality	0..*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8511_1

Access Location Required Month

Month Number

Mnemonic	ACC_LOC_MONTH_VAL		Conditionality	O	
			Status	Emerging	
Description	A two-digit month of the year, 01 through 12.				
Field Min	2		Occur Min	0	
Field Max	2		Occur Max	1	
Char Types	N		Special Chars		
Format	MM - 2 digit month		Constraints	n/a	
Code List					
Source	Developed for Base Access capability. Pending approval.				
XML Level 1	dod-ebts:AccessLocationRequiredMonth			Cardinality	0..*
XML Level 2	dod-ebts:MonthNumber			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

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2.8511_2

Access Location Required Month

Authority Approval Status Code

Mnemonic	ACC_LOC_MONTH_AUTH_CD				Conditionality	0			
					Status	Emerging			
Description	The level of the authority and approval status obtained.								
Field Min	6				Occur Min	0			
Field Max	6				Occur Max	1			
Char Types	AS				Special Chars				
Format	n/a				Constraints	n/a			
Code List	AUTHORITY APPROVAL STATUS CODES								
Source	Developed for Base Access capability. Pending approval.								
XML Level 1	dod-ebts:AccessLocationRequiredMonth					Cardinality	0..*		
XML Level 2	dod-ebts: Authority Approval Status Code/nc:IdentificationType					Cardinality	0..1		
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

2.8512

Access Location Required Day of the Week

Mnemonic	ACC_LOC_WKDAY				Conditionality	0	
					Status	Emerging	
Description	The subject's level of days of the week access is required for a location. The set consists of the weekdays access is required and the authority approval status code.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	Developed for Base Access capability. Pending approval.						
XML Level 1	dod-ebts:AccessLocationRequiredDay					Cardinality	0..1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8512_1

Access Location Required Day of the Week

Weekday Number

Mnemonic	ACC_LOC_WKDAY_NUM			Conditionality	O		
				Status	Emerging		
Description	The weekday number, from 1 through 7, beginning with Monday and ending with Sunday.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Base Access capability. Pending approval.						
XML Level 1	dod-ebts:AccessLocationRequiredDay				Cardinality	0..1	
XML Level 2	dod-ebts:WeekdayNumber				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8512_2

Access Location Required Day of the Week

Authority Approval Status Code

Mnemonic	ACC_LOC_WKDAY_AUTH_CD				Conditionality	0	
					Status	Emerging	
Description	The level of the authority and approval status obtained.						
Field Min	6				Occur Min	0	
Field Max	6				Occur Max	1	
Char Types	AS				Special Chars		
Format	n/a				Constraints	n/a	
Code List	AUTHORITY APPROVAL STATUS CODES						
Source	Developed for Base Access capability. Pending approval.						
XML Level 1	dod-ebts:AccessLocationRequiredDay					Cardinality	0..1
XML Level 2	dod-ebts:AuthorityApprovalStatusCode					Cardinality	0..1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8513Access Location Badge Replacement

Mnemonic	BADGE_RPL	Conditionality	0
		Status	Emerging
Description	The subject's badge replacement information. The set contains the replacement reason code and the badge number that is being replaced.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Base Access capability. Pending approval.		
XML Level 1	dod-ebts:AccessLocationBadgeReplace	Cardinality	0..1
XML Level 2		Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8513_1Access Location Badge ReplacementAccess Location Badge Replacement Reason Code

Mnemonic	BADGE_RPL_REASON_CD	Conditionality	0
		Status	Emerging
Description	The code indicating the reason the badge is being replaced.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List	BADGE REPLACEMENT REASON CODES		
Source	Developed for Base Access capability. Pending approval.		
XML Level 1	dod-ebts:AccessLocationBadgeReplace	Cardinality	0..1
XML Level 2	dod-ebts:BadgeReplacementReasonCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8513_2Access Location Badge Replacement*Access Location Replaced Badge Number*

Mnemonic	BADGE_RPL_BADGE_NUM			Conditionality	0		
				Status	Emerging		
Description	The number of the badge being replaced.						
Field Min	1			Occur Min	0		
Field Max	100			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Base Access capability. Pending approval.						
XML Level 1	dod-ebts:AccessLocationBadgeReplace				Cardinality	0..1	
XML Level 2	dod-ebts:ReplacedBadgeNumber				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8514Access Location Privilege

Mnemonic	ACC_LOC_PRIV				Conditionality	0	
					Status	Emerging	
Description	The subject's level of access privileges. The set consists of the privilege type, the privilege value, the force protection condition and the authority approval status code.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	Developed for Base Access capability. Pending approval.						
XML Level 1	dod-ebts:AccessLocationPrivilege				Cardinality	0..1	
XML Level 2					Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8514_0Access Location Privilege*Subfields: Repeating sets of information items*

Mnemonic	ACC_LOC_PRV_0				Conditionality	0			
					Status	Emerging			
Description	Repeating subfield for Access Location Privilege.								
Field Min	n/a				Occur Min	0			
Field Max	n/a				Occur Max	*			
Char Types	n/a				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	EBTS 4.0								
XML Level 1	dod-ebts:AccessLocationPrivilege					Cardinality	0..*		
XML Level 2						Cardinality			
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

2.8514_1Access Location Privilege*Access Location Privilege Category Code*

Mnemonic	ACC_LOC_PRV_TYP			Conditionality	0		
				Status	Emerging		
Description	The type of privilege allowed at an access location.						
Field Min	1			Occur Min	0		
Field Max	20			Occur Max	1		
Char Types	A			Special Chars			
Format	n/a			Constraints	n/a		
Code List	ACCESS LOCATION PRIVILEGE CODES						
Source	Developed for Base Access capability. Pending approval.						
XML Level 1	dod-ebts:AccessLocationPrivilege				Cardinality	0..*	
XML Level 2	dod-ebts:AccessLocationPrivilegeCategoryCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8514_2

Access Location Privilege

Access Location Privilege Value

Mnemonic	ACC_LOC_PRV_VAL			Conditionality	O		
				Status	Emerging		
Description	The value of the assigned privilege. e.g. When the Access Location Privilege Category Code = LA for Lane Access, the value might be 'Military' or 'Priority' or 'Regular'						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Base Access capability. Pending approval.						
XML Level 1	dod-ebts:AccessLocationPrivilege				Cardinality	0..*	
XML Level 2	dod-ebts:AccessLocationPrivilegeValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8515

Access Location

Mnemonic	ACC_LOC			Conditionality	0		
				Status	Emerging		
Description	Specifies the location for access. The set consists of the Location Name, Address Value Type, Address Value, Latitude Degree/Minute/Second, Longitude Degree/Minute/Second and Location Description.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:AccessLocation				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8515_0

Access Location

Subfields: Repeating sets of information items

Mnemonic	ACC_LOC_0	Conditionality	O
		Status	Emerging
Description	Repeating subfield for Access Location.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	*
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	EBTS 4.0		
XML Level 1	dod-ebts:AccessLocation	Cardinality	0..*
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8515_1

Access Location

Location Name

Mnemonic	ACC_LOC	Conditionality	O
		Status	Emerging
Description	The name of a geographical location. e.g. Fort Belvoir		
Field Min	1	Occur Min	0
Field Max	250	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Base Access capability.		
XML Level 1	dod-ebts:AccessLocation	Cardinality	0..*
XML Level 2	dod-ebts:LocationAddress	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8515_2

Access Location

Country Code

Mnemonic	ACC_LOC_CNTRY_CD	Conditionality	O
		Status	Emerging
Description	The GENC alpha3 country code. The DoD EBTS 4.0 default for this field is the GENC three character alpha codelist (genc:CountryAlpha3CodeType).		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Base Access capability.		
XML Level 1	dod-ebts:AccessLocation	Cardinality	0..*
XML Level 2	nc:LocationCountryGENCCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8515_3

Access Location

State / Province

Mnemonic	ACC_LOC_STATE	Conditionality	O
		Status	Emerging
Description	The state, province or subdivision of a location.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	free text
Code List			
Source	Developed for Base Access capability.		
XML Level 1	dod-ebts:AccessLocation	Cardinality	0..*
XML Level 2	nc:LocationStateName	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8515_4

Access Location

City

Mnemonic	ACC_LOC_CITY			Conditionality	O		
				Status	Emerging		
Description	The name of the city or geographical location. e.g. Fort Belvoir.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:AccessLocation				Cardinality	0..*	
XML Level 2	nc:LocationCityName				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8515_5

Access Location

Village

Mnemonic	ACC_LOC_VLG			Conditionality	0		
				Status	Emerging		
Description	Small population unit, typically rural, held together by common economic and political ties.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:AccessLocation				Cardinality	0..*	
XML Level 2	dod-ebts:LocationVillageName				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8515_6

Access Location

Latitude Degree

Mnemonic	ACC_LOC_GEO_CORD_LAT_DEG		Conditionality	M ↑	
			Status	Emerging	
Description	This field contains the latitude at which the submission was collected. The data is in degrees in the range +90 to -90. The plus sign may be omitted. Decimal values are allowed.				
Field Min	1		Occur Min	1	
Field Max	9		Occur Max	1	
Char Types	NS		Special Chars		
Format	n/a		Constraints	n/a	
Code List					
Source	Developed for Base Access capability.				
XML Level 1	dod-ebts:AccessLocation			Cardinality	0..*
XML Level 2	biom_1:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude			Cardinality	0..1
XML Level 3	nc:LatitudeDegreeValue			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	No

2.8515_7

Access Location

Latitude Minute

Mnemonic	ACC_LOC_GEO_CORD_LAT_MIN			Conditionality	0		
				Status	Emerging		
Description	This field contains the geographic location latitude. The data is in minutes in the range from 0 to less than 60.						
Field Min	1			Occur Min	0		
Field Max	8			Occur Max	1		
Char Types	NS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:AccessLocation				Cardinality	0..*	
XML Level 2	biom_1:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude				Cardinality	0..1	
XML Level 3	nc:LatitudeMinuteValue				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	No

2.8515_8Access Location*Latitude Second*

Mnemonic	ACC_LOC_GEO_CORD_LAT_SEC	Conditionality	O
		Status	Emerging
Description	This field contains the geographic location latitude. The data is in seconds in the range from 0 to less than 60. Decimal values are allowed.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Base Access capability.		
XML Level 1	dod-ebts:AccessLocation	Cardinality	0..*
XML Level 2	biom_1:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude	Cardinality	0..1
XML Level 3	nc:LatitudeSecondValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	No

2.8515_9Access Location*Longitude Degree*

Mnemonic	ACC_LOC_GEO_CORD_LONG_DEG	Conditionality	M↑
		Status	Emerging
Description	This field contains the geographic location longitude. The data is in the range of +180 to -180. The plus sign may be omitted. Decimal values are allowed.		
Field Min	1	Occur Min	1
Field Max	10	Occur Max	1
Char Types	NS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Base Access capability.		
XML Level 1	dod-ebts:AccessLocation	Cardinality	0..*
XML Level 2	biom_1:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude	Cardinality	0..1
XML Level 3	nc:LongitudeDegreeValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	No

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2.8515_10

Access Location

Longitude Minute

Mnemonic	ACC_LOC_GEO_CORD_LONG_MIN	Conditionality	O
		Status	Emerging
Description	This field contains the geographic location longitude. The data is in minutes in the range from 0 to less than 60. Decimal values are allowed.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Base Access capability.		
XML Level 1	dod-ebts:AccessLocation	Cardinality	0..*
XML Level 2	biom_1:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude	Cardinality	0..1
XML Level 3	nc:LongitudeMinuteValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	No

2.8515_11

Access Location

Longitude Second

Mnemonic	ACC_LOC_GEO_CORD_LONG_SEC	Conditionality	O
		Status	Emerging
Description	This field contains the geographic location latitude. The data is in seconds in the range from 0 to less than 60. Decimal values are allowed.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Base Access capability.		
XML Level 1	dod-ebts:AccessLocation	Cardinality	0..*
XML Level 2	biom_1:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude	Cardinality	0..1
XML Level 3	nc:LongitudeSecondValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	No

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2.8515_12

Access Location

Location Description

Mnemonic	ACC_LOC_DESC	Conditionality	O
		Status	Emerging
Description	Remarks		
Field Min	1	Occur Min	0
Field Max	255	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Base Access capability.		
XML Level 1	dod-ebts:AccessLocation	Cardinality	0..*
XML Level 2	nc:AreaDescriptionText	Cardinality	0..1
XML Level 3		Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	No

2.8516

Access Location Expiration

Mnemonic	ACC_LOC_EXP	Conditionality	O
		Status	Emerging
Description	The subject's expiration for the access location. The set is comprised of 2 information items: Access Location Expiration Date and Authority Approval Status Code.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Developed for Base Access capability.		
XML Level 1	dod-ebts:AccessLocationExpiration	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8516_0

Access Location Expiration

Subfields: Repeating sets of information items

Mnemonic	ACC_LOC_EXP_0			Conditionality	O		
				Status	Emerging		
Description	Repeating subfield for Access Location Expiration.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	EBTS 4.0						
XML Level 1	dod-ebts:AccessLocationExpiration				Cardinality	0..*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8516_1

Access Location Expiration

Access Location Expiration Date

Mnemonic	ACC_LOC_EXPDT		Conditionality	O	
			Status	Emerging	
Description	The subject's assigned expiration date for the access location.				
Field Min	Encoding Specific		Occur Min	0	
Field Max	Encoding Specific		Occur Max	1	
Char Types	ANS		Special Chars		
Format	YYYYMMDD		Constraints	n/a	
Code List					
Source	Developed for Base Access capability.				
XML Level 1	dod-ebts:AccessLocationExpiration			Cardinality	0..*
XML Level 2	dod-ebts:AccessLocationExpirationDate			Cardinality	0...1
XML Level 3	niem-xsd:date			Cardinality	0...1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

2.8516_2Access Location Expiration*Authority Approval Status Code*

Mnemonic	ACC_LOC_EXP_AUTH_CD				Conditionality	O	
					Status	Emerging	
Description	The level of the authority and approval status obtained.						
Field Min	6				Occur Min	0	
Field Max	6				Occur Max	1	
Char Types	AS				Special Chars		
Format	n/a				Constraints	n/a	
Code List	AUTHORITY APPROVAL STATUS CODES						
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:AccessLocationExpiration					Cardinality	0..*
XML Level 2	dod-ebts:AuthorityApprovalStatusCode					Cardinality	0...1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8517Access Location Facility Permission

Mnemonic	ACC_LOC_PAC_PERM			Conditionality	0		
				Status	Emerging		
Description	The subject's level of facility access. The set consists of the facility type, the force protection condition and the authority approval status code.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:AccessLocationFacilityPermission				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8517_0Access Location Facility Permission*Subfields: Repeating sets of information items*

Mnemonic	ACC_LOC_PAC_PERM_0				Conditionality	O			
					Status	Emerging			
Description	Repeating subfield for Access Location Facility Permission.								
Field Min	n/a				Occur Min	0			
Field Max	n/a				Occur Max	*			
Char Types	n/a				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	EBTS 4.0								
XML Level 1	dod-ebts:AccessLocationFacilityPermission					Cardinality	0..*		
XML Level 2						Cardinality			
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

2.8517_1Access Location Facility Permission*Access Location Facility Category Code*

Mnemonic	ACC_LOC_PAC_PERM_FAC_TYP				Conditionality	O	
					Status	Emerging	
Description	The types of facility at an access location.						
Field Min	1				Occur Min	0	
Field Max	20				Occur Max	1	
Char Types	A				Special Chars		
Format	n/a				Constraints	n/a	
Code List	FACILITY CODES						
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:AccessLocationFacilityPermission					Cardinality	0..*
XML Level 2	dod-ebts:AccessLocationFacilityCategoryCode					Cardinality	0..1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8517_2Access Location Facility Permission*Force Protection Condition Code*

Mnemonic	ACC_LOC_PAC_PERM_FP_CD		Conditionality	0	
			Status	Emerging	
Description	A DoD-approved system standardizing DoD’s identification of and recommended preventive actions and responses to terrorist threats against U.S. personnel and facilities. The system is the principal means for a commander to apply an operational decision on how to protect against terrorism and facilitates coordination among DoD Components and support for antiterrorism activities.				
Field Min	11		Occur Min	0	
Field Max	13		Occur Max	1	
Char Types	AS		Special Chars		
Format	n/a		Constraints	n/a	
Code List	FORCE PROTECTION CONDITION CODES				
Source	Developed for Base Access capability.				
XML Level 1	dod-ebts:AccessLocationFacilityPermission			Cardinality	0..*
XML Level 2	dod-ebts:ForceProtectionConditionCode			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

2.8517_3Access Location Facility Permission*Authority Approval Status Code*

Mnemonic	ACC_LOC_PAC_PERM_AUTH_CD			Conditionality	0		
				Status	Emerging		
Description	The level of the authority and approval status obtained.						
Field Min	6			Occur Min	0		
Field Max	6			Occur Max	1		
Char Types	AS			Special Chars			
Format	XX-YYY where XX is the authority and YYY is the status code			Constraints	n/a		
Code List	AUTHORITY APPROVAL STATUS CODES						
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:AccessLocationFacilityPermission				Cardinality	0..*	
XML Level 2	dod-ebts:AuthorityApprovalStatusCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Access Application Number

Mnemonic	ACC_APP_NUM				Conditionality	0	
					Status	Emerging	
Description	The unique identifier for an application to obtain access to a facility or base.						
Field Min	16				Occur Min	0	
Field Max	16				Occur Max	1	
Char Types	AN				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:AccessApplicationNumber/nc:IdentificationID					Cardinality	0..1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8548

Biometric Subject Specialty

Mnemonic	SUBJ_SPEC			Conditionality	0		
				Status	Emerging		
Description	This set of elements describes the specialty and/or skills of the biometric subject, the proficiency level and the validity of the information provided.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:BiometricSubjectSpecialty				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8548_0Biometric Subject Specialty*Subfields: Repeating sets of information items*

Mnemonic	SUBJ_SPEC_0				Conditionality	0			
					Status	Emerging			
Description	Repeating subfield for Biometric Subject Specialty.								
Field Min	n/a				Occur Min	0			
Field Max	n/a				Occur Max	*			
Char Types	n/a				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	EBTS 4.0								
XML Level 1	dod-ebts:BiometricSubjectSpecialty					Cardinality	0..*		
XML Level 2						Cardinality			
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

2.8548_1Biometric Subject Specialty*Biometric Subject Specialty Value*

Mnemonic	SUBJ_SPEC_VAL			Conditionality	0		
				Status	Emerging		
Description	The specialty and/or skills of the biometric subject. e.g. nuclear explosives, accounting, etc.						
Field Min	1			Occur Min	0		
Field Max	100			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:BiometricSubjectSpecialty				Cardinality	0..*	
XML Level 2	dod-ebts:BiometricSubjectSpecialtyValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8548_2Biometric Subject Specialty*Biometric Subject Specialty Proficiency*

Mnemonic	SUBJ_SPEC_PRO			Conditionality	0		
				Status	Emerging		
Description	The field contains the subject proficeincy level of the specialty and or skills of the biometric subject.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List	PROFICIENCY CODES						
Source	Developed for Base Access capability.						
XML Level 1	dod-ebts:BiometricSubjectSpecialty				Cardinality	0..*	
XML Level 2	dod-ebts:BiometricSubjectSpecialtyProficiencyCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8548_3Biometric Subject Specialty*Biometric Subject Specialty Validity*

Mnemonic	SUBJ_SPEC_VALID				Conditionality	0		
					Status	Emerging		
Description	This information item defines the validity of the specialty and or skills of the biometric subject.							
Field Min	3				Occur Min	0		
Field Max	3				Occur Max	1		
Char Types	A				Special Chars			
Format	n/a				Constraints	n/a		
Code List	VALIDITY CODES							
Source	Developed for Base Access capability.							
XML Level 1	dod-ebts:BiometricSubjectSpecialty					Cardinality	0..*	
XML Level 2	dod-ebts:BiometricSubjectSpecialtyValidityCode					Cardinality	0..1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

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2.8549

Response Maximum Count

Mnemonic	RESP_CNT			Conditionality	M		
				Status	New - Emerging		
Description	This field specifies the maximum number of encounters desired to receive in the response. This number shall not exceed the upper limit set by the repository or the service level agreement. The Application Profile shall document the upper limit allowed.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	New - Emerging						
XML Level 1	dod-ebts: ResponseMaximumCount				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8600

Reference System Identifier

Mnemonic	ENTITY_ID_0				Conditionality	M		
					Status	New - Emerging		
Description	Identifier for an entity.							
Field Min	n/a				Occur Min	1		
Field Max	n/a				Occur Max	*		
Char Types	U				Special Chars			
Format	n/a				Constraints	free text		
Code List								
Source	Addition for Voice Type 11							
XML Level 1	dod-ebts:ReferenceSystemIdentifier					Cardinality	1...*	
XML Level 2						Cardinality		
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

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Reference System Identifier

Subfields: Repeating sets of information items

Mnemonic	ENTITY_ID				Conditionality	O		
					Status	New- Emerging		
Description	Repeating subfield for Reference System Identifier.							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	*		
Char Types	n/a				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	EBTS 4.0							
XML Level 1	dod-ebts:ReferenceSystemIdentifier					Cardinality	0...*	
XML Level 2						Cardinality		
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.8600_1

Reference System Identifier

Identifier

Mnemonic	ENTITY_NO			Conditionality	O		
				Status	New - Emerging		
Description	Identifier assigned by the entity.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:ReferenceSystemIdentifier				Cardinality	0...*	
XML Level 2	dod-ebts:ReferenceSystemID/nc:IdentificationID				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8600_2

Reference System Identifier

Jurisdiction

Mnemonic	ENITITY_JURIS			Conditionality	O	
				Status	New - Emerging	
Description	Jurisdiction of the identifier.					
Field Min	1			Occur Min	0	
Field Max	50			Occur Max	1	
Char Types	U			Special Chars		
Format	n/a			Constraints	n/a	
Code List						
Source	Addition for Voice Type 11					
XML Level 1	dod-ebts:ReferenceSystemIdentifier				Cardinality	0...*
XML Level 2	nc:JurisdictionIdentification				Cardinality	0...1
XML Level 3					Cardinality	
XML Level 4					Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0 Yes

2.8600_3

Reference System Identifier

Category

Mnemonic	ENTITY_CATEGORY			Conditionality	O		
				Status	New - Emerging		
Description	Category of the identifier.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:ReferenceSystemIdentifier				Cardinality	0...*	
XML Level 2	nc:IdentificationCategory				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Reference System Identifier

Description

Mnemonic	ENITITY_DESC	Conditionality	O
		Status	New - Emerging
Description	Description of the identifier.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Addition for Voice Type 11		
XML Level 1	dod-ebts:ReferenceSystemIdentifier	Cardinality	0...*
XML Level 2	nc:IdentificationCategoryDescriptionText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8600_5

Reference System Identifier

Effective Date

Mnemonic	ENTITY_EFF	Conditionality	O
		Status	New - Emerging
Description	Effective date of the identifier.		
Field Min	Encoding Specific	Occur Min	0
Field Max	Encoding Specific	Occur Max	1
Char Types	ANS	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Addition for Voice Type 11		
XML Level 1	dod-ebts:ReferenceSystemIdentifier	Cardinality	0...*
XML Level 2	nc:IdentificationEffectiveDate/nc:Date	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8600_6

Reference System Identifier

Expiration Date

Mnemonic	ENITITY_EXP			Conditionality	O		
				Status	New - Emerging		
Description	Expiration date of the identifier.						
Field Min	Encoding Specific			Occur Min	0		
Field Max	Encoding Specific			Occur Max	1		
Char Types	ANS			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:ReferenceSystemIdentifier				Cardinality	0...*	
XML Level 2	nc:IdentificationExpirationDate/nc:Date				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8600_7

Reference System Identifier

Source

Mnemonic	ENTITY_SOURCE			Conditionality	O		
				Status	New - Emerging		
Description	Entity that generated the identifier.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:ReferenceSystemIdentifier				Cardinality	0...*	
XML Level 2	nc:IdentificationSourceText				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8600_8

Reference System Identifier

Status

Mnemonic	ENTITY_STATUS			Conditionality	O		
				Status	New - Emerging		
Description	Current Status of the Identifier.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:ReferenceSystemIdentifier				Cardinality	0...*	
XML Level 2	nc:IdentificationStatus				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8600_9

Reference System Identifier

Augmentation Point

Mnemonic	ENTITY_AUGMENTATION				Conditionality	0		
					Status	New - Emerging		
Description	Description of changes to the Identifier.							
Field Min	1				Occur Min	0		
Field Max	50				Occur Max	1		
Char Types	U				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	Addition for Voice Type 11							
XML Level 1	dod-ebts:ReferenceSystemIdentifier					Cardinality	0...*	
XML Level 2	nc:IdentificationAugmentationPoint					Cardinality	0...1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8601

Response Maximum Count

Mnemonic	RESP_CNT			Conditionality	0		
				Status	New - Emerging		
Description	This field specifies the maximum number of candidate encounters desired to receive in the response. This number shall not exceed the upper limit set by the repository or the service level agreement (i.e. Top 10 candidates or Single ID).						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:ResponseMaxCount				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8602

Enhanced Status Message

Mnemonic	EMSU			Conditionality	M		
				Status	New - Emerging		
Description	To facilitate multiple status reponses instead of using a single FBU 2.060 Status/Error Message (MSG).						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Requested by IC						
XML Level 1	dod-ebts:EnhancedStatusMessage				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8602_0

Enhanced Status Message

Subfields: Repeating sets of information items

Mnemonic	EMSU_0	Conditionality	O
		Status	New- Emerging
Description	Repeating subfield for Enhanced Status Message.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	*
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	EBTS 4.0		
XML Level 1	dod-ebts:AssignedIdentification		Cardinality 0...*
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8602_1

Enhanced Status Message

Comment

Mnemonic	EMSU_1	Conditionality	O
		Status	New - Emerging
Description	A comment regarding a status.		
Field Min	1	Occur Min	0
Field Max	255	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Requested by IC		
XML Level 1	dod-ebts:EnhancedStatusMessage		Cardinality 0...*
XML Level 2	nc:StatusCommentText		Cardinality 0...1
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8602_2

Enhanced Status Message

Date

Mnemonic	EMSU_2	Conditionality	O
		Status	New - Emerging
Description	A date concept for a date a status is given.		
Field Min	Encoding Specific	Occur Min	0
Field Max	Encoding Specific	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Requested by IC		
XML Level 1	dod-ebts:EnhancedStatusMessage	Cardinality	0...*
XML Level 2	nc:StatusDate/nc:Date	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8602_3

Enhanced Status Message

Designator

Mnemonic	EMSU_3	Conditionality	O
		Status	New - Emerging
Description	A data concept for a status or condition of something or someone.		
Field Min	1	Occur Min	0
Field Max	255	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Requested by IC		
XML Level 1	dod-ebts:EnhancedStatusMessage	Cardinality	0...*
XML Level 2	nc:StatusDesignator	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8602_4

Enhanced Status Message

Description

Mnemonic	EMSU_4	Conditionality	O
		Status	New - Emerging
Description	A description of a status or condition of something or someone.		
Field Min	1	Occur Min	0
Field Max	255	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Requested by IC		
XML Level 1	dod-ebts:EnhancedStatusMessage	Cardinality	0...*
XML Level 2	nc:StatusDescriptionText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8602_5

Enhanced Status Message

Issuer Identification

Mnemonic	EMSU_5	Conditionality	O
		Status	New - Emerging
Description	An identification of a person or organization which assigns a status.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Requested by IC		
XML Level 1	dod-ebts:EnhancedStatusMessage	Cardinality	0...*
XML Level 2	nc:StatusIssuerIdentification/nc:IdentificationID	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8602_6

Enhanced Status Message

Issuer

Mnemonic	EMSU_6	Conditionality	O
		Status	New - Emerging
Description	A name, identifier, or other reference of a person or organization which assigns a status.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Requested by IC		
XML Level 1	dod-ebts:EnhancedStatusMessage	Cardinality	0...*
XML Level 2	nc:StatusIssuerText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8602_7

Enhanced Status Message

Augmentation Point

Mnemonic	EMSU_7	Conditionality	O
		Status	New - Emerging
Description	An augmentation point for StatusType.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Requested by IC		
XML Level 1	dod-ebts:EnhancedStatusMessage	Cardinality	0...*
XML Level 2	nc:StatusAugmentationPoint	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8603

Primary Language

Mnemonic	PRIM_LANG				Conditionality	0	
					Status	New - Emerging	
Description	Primary system of words or symbols used for communication by a subject.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	U				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:PrimaryLanguage				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8603_1

Primary Language

Primary Language Code

Mnemonic	PRIM_LANG_1			Conditionality	0		
				Status	New - Emerging		
Description	A name of a system of words or symbols used for communication of a primary language that utilizes the alpha 3 iso_639-3 code set.						
Field Min	3			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:PrimaryLanguage				Cardinality	0...1	
XML Level 2	nc:PersonLanguage				Cardinality	0...1	
XML Level 3	nc:LanguageCode				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8603_2

Primary Language

Primary Language Description

Mnemonic	PRIM_LANG_2			Conditionality	O		
				Status	New - Emerging		
Description	A capacity of a person for a language with which that person has the strongest familiarity.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:PrimaryLanguage				Cardinality	0...1	
XML Level 2	nc:PersonPrimaryLanguage				Cardinality	0...1	
XML Level 3	nc:LanguageName				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8603_3

Primary Language

Primary Language Dialect

Mnemonic	PRIM_LANG_3			Conditionality	O		
				Status	New - Emerging		
Description	Description of the primary language dialect.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:PrimaryLanguage				Cardinality	0...1	
XML Level 2	dod-ebts:PrimaryLanguageDialect				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2.8603_4

Primary Language

Primary Language Subject Reads

Mnemonic	PRIM_LANG_4				Conditionality	O			
					Status	New - Emerging			
Description	True if a person is able to read the primary language; false otherwise.								
Field Min	1				Occur Min	0			
Field Max	1				Occur Max	1			
Char Types	N				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	Addition for Voice Type 11								
XML Level 1	dod-ebts:PrimaryLanguage					Cardinality	0...1		
XML Level 2	nc:PersonReadsLanguageIndicator					Cardinality	0...1		
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

2.8603_5

Primary Language

Primary Language Subject Speaks

Mnemonic	PRIM_LANG_5				Conditionality	O			
					Status	New - Emerging			
Description	True if a person is able to speak the primary language; false otherwise.								
Field Min	1				Occur Min	0			
Field Max	1				Occur Max	1			
Char Types	N				Special Chars				
Format	n/a				Constraints	n/a			
Code List									
Source	Addition for Voice Type 11								
XML Level 1	dod-ebts:PrimaryLanguage					Cardinality	0...1		
XML Level 2	nc:PersonSpeaksLanguageIndicator					Cardinality	0...1		
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

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2.8603_6

Primary Language

Primary Language Subject Writes

Mnemonic	PRIM_LANG_6				Conditionality	0	
					Status	New - Emerging	
Description	True if a person is able to write the primary language; false otherwise.						
Field Min	1				Occur Min	0	
Field Max	1				Occur Max	1	
Char Types	N				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:PrimaryLanguage					Cardinality	0...1
XML Level 2	nc:PersonWritesLanguageIndicator					Cardinality	0...1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8604

Secondary Language

Mnemonic	SECOND_LANG_0				Conditionality	0	
					Status	New - Emerging	
Description	Description of the Secondary Language.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	U				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:SecondaryLanguage					Cardinality	0...1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8604_0Secondary Language*Subfields: Repeating sets of information items*

Mnemonic	SECOND_LANG	Conditionality	O
		Status	New- Emerging
Description	Repeating subfield for Secondary Language.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	*
Char Types	n/a	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	EBTS 4.0		
XML Level 1	dod-ebts:SecondaryLanguage	Cardinality	0...*
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8604_1Secondary Language*Secondary Language Code*

Mnemonic	SECOND_LANG_1	Conditionality	O
		Status	New - Emerging
Description	A name of a system of words or symbols used for communication of a secondary language that utilizes the alpha 3 iso_639-3 code set.		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	U	Special Chars	
Format	n/a	Constraints	n/a
Code List			
Source	Addition for Voice Type 11		
XML Level 1	dod-ebts:SecondaryLanguage	Cardinality	0...*
XML Level 2	nc:PersonSecondaryLanguage	Cardinality	0...1
XML Level 3	nc:LanguageCode	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8604_2Secondary Language*Secondary Language Description*

Mnemonic	SECOND_LANG_2			Conditionality	0		
				Status	New - Emerging		
Description	Description of the secondary language.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:SecondaryLanguage				Cardinality	0...*	
XML Level 2	nc:PersonSecondaryLanguage				Cardinality	0...1	
XML Level 3	nc:LanguageName				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8604_3Secondary Language*Secondary Language Dialect*

Mnemonic	SECOND_LANG_3				Conditionality	0		
					Status	New - Emerging		
Description	Description of the secondary language dialect.							
Field Min	1				Occur Min	0		
Field Max	50				Occur Max	*		
Char Types	U				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	Addition for Voice Type 11							
XML Level 1	dod-ebts:SecondaryLanguage					Cardinality	0...*	
XML Level 2	dod-ebts:SecondaryLanguageDialect					Cardinality	0...*	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.8604_4Secondary Language*Secondary Language Subject Reads*

Mnemonic	SECOND_LANG_4				Conditionality	O	
					Status	New - Emerging	
Description	True if a person is able to read the secondary language; false otherwise.						
Field Min	1				Occur Min	0	
Field Max	1				Occur Max	1	
Char Types	N				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:SecondaryLanguage					Cardinality	0...*
XML Level 2	nc:PersonReadsLanguageIndicator					Cardinality	0...1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8604_5Secondary Language*Secondary Language Subject Speaks*

Mnemonic	SECOND_LANG_5				Conditionality	O	
					Status	New - Emerging	
Description	True if a person is able to speak the secondary language; false otherwise.						
Field Min	1				Occur Min	0	
Field Max	1				Occur Max	1	
Char Types	N				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:SecondaryLanguage					Cardinality	0...*
XML Level 2	nc:PersonSpeaksLanguageIndicator					Cardinality	0...1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8604_6

Secondary Language

Secondary Language Subject Writes

Mnemonic	SECOND_LANG_6				Conditionality	0	
					Status	New - Emerging	
Description	True if a person is able to write the secondary language; false otherwise.						
Field Min	1				Occur Min	0	
Field Max	1				Occur Max	1	
Char Types	N				Special Chars		
Format	n/a				Constraints	n/a	
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:SecondaryLanguage				Cardinality	0...*	
XML Level 2	nc:PersonWritesLanguageIndicator				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8605

Speaker Identification Engine Response

Mnemonic	ENG_RESP			Conditionality	O		
				Status	New - Emerging		
Description	Information set returned with the Speaker Candidate Results (SCR) response TOT as a result of the SID - Speaker Identification request TOT. The information set contains results information regarding matches against the stored voice engine model.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:SpeakerIdentificationEngineResponse				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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2.8605_1

Speaker Identification Engine Response

Voice Engine Software Version

Mnemonic	ENG_RESP_1			Conditionality	O		
				Status	New - Emerging		
Description	Software version of the voice model engine generating the model and running the voice match comparison algorithm.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:SpeakerIdentificationEngineResponse				Cardinality	0...*	
XML Level 2	nc:softwareVersionText				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8605_2

Speaker Identification Engine Response

Voice Engine Software Name

Mnemonic	ENG_RESP_2			Conditionality	O		
				Status	New - Emerging		
Description	Name of the software voice model engine generating the model and running the voice match comparison alorithm.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:SpeakerIdentificationEngineResponse				Cardinality	0...*	
XML Level 2	nc:SoftwareName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8605_3

Speaker Identification Engine Response

Voice Engine Vendor

Mnemonic	ENG_RESP_3				Conditionality	O		
					Status	New - Emerging		
Description	Text that specifies the software code vendor name.							
Field Min	1				Occur Min	0		
Field Max	50				Occur Max	1		
Char Types	U				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	Addition for Voice Type 11							
XML Level 1	dod-ebts:SpeakerIdentificationEngineResponse					Cardinality	0...*	
XML Level 2	dod-ebts:SoftwareVendorNameText					Cardinality	0...1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

2.8605_4

Speaker Identification Engine Response

Detected Speaker Number

Mnemonic	ENG_RESP_4				Conditionality	O		
					Status	New - Emerging		
Description	Identifying number of the speaker assigned by the voice model engine.							
Field Min	1				Occur Min	0		
Field Max	50				Occur Max	1		
Char Types	U				Special Chars			
Format	n/a				Constraints	n/a		
Code List								
Source	Addition for Voice Type 11							
XML Level 1	dod-ebts:SpeakerIdentificationEngineResponse					Cardinality	0...*	
XML Level 2	dod-ebts:DetectedSpeakerNumber					Cardinality	0...1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-2: User-Defined Descriptive Text

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2.8605_5

Speaker Identification Engine Response

Voice Engine Rank

Mnemonic	ENG_RESP_5			Conditionality	O		
				Status	New - Emerging		
Description	Rank Score assigned to the voice file submitted as part of the Speaker Identification (SID) TOT.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	N			Special Chars			
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:SpeakerIdentificationEngineResponse				Cardinality	0...*	
XML Level 2	dod-ebts:EngineRank/nc:MeasureDecimalValue				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

2.8605_6

Speaker Identification Engine Response

Match Level

Mnemonic	ENG_RESP_6			Conditionality	O		
				Status	New - Emerging		
Description	Code indicating the voice engines level of confidence regarding the submission of the voice file in the Speaker Identification (SID) TOT comparison to the stored voice model.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars			
Format	n/a			Constraints	n/a		
Code List	SPEAKER MATCH LEVEL						
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:SpeakerIdentificationEngineResponse				Cardinality	0...*	
XML Level 2	dod-ebts:MatchLevel				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Common)

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9.001

Record Header

Mnemonic	LEN	Conditionality	M
		Status	Active
Description	The record header appears as the first field (xx.001) in each Record Type. It contains information particular to the encoding format chosen, in order to enable proper reading of the record. In Traditional encoding, this field contains the record length in bytes (including all information separators). In NIEM-conformant XML encoding, this field contains the RecordCategoryCode, which is the numeric representation of the Record Type.		
Field Min	T = 4; X = 1	Occur Min	1
Field Max	T = 8; X = 2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ContentRecordSummary	Cardinality	1..1
XML Level 2	biom_1:RecordCategoryCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.002

Information Designation Character

Mnemonic	IDC	Conditionality	M
		Status	Active
Description	Each of the records present in a transaction, with the exception of the Type-1 record, shall include a field (xx.002) containing the information designation character / IDC. The value of the IDC shall be a sequentially assigned positive integer starting from zero and incremented by one up to a maximum of 99. IDC references are stated in Type-1 Field 1.003 Transaction content (CNT) and shall be used to relate information items in the CNT field of the Type-1 record to the other records in the transaction. Two or more records may share a single IDC solely to identify and link together records that pertain to different representations of the same biometric trait.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= IDC <= 99; integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ContentRecordSummary	Cardinality	1..1
XML Level 2	biom_1:ImageReferenceIdentification/nc:identificationID	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Common)

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9.003

Impression Type

Mnemonic	IMP			Conditionality	M
				Status	Active
Description	This mandatory field shall indicate the manner by which the friction ridge print was obtained.				
Field Min	1			Occur Min	1
Field Max	2			Occur Max	1
Char Types	N			Special Chars	None
Format	n/a			Constraints	see Look Up Codes
Code List	FRICTION RIDGE IMPRESSION CODES				
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:MinutiaeImpressionCaptureCategoryCode			Cardinality	1..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

9.004

Minutia Format

Mnemonic	FMT			Conditionality	M
				Status	Active
Description	This mandatory field is retained only for backward compatibility. It was a mandatory field in previous versions of the standard. This field shall always have a value "U", unless including legacy records 9.005 through 9.012 (described in ANSI/NIST-ITL 1-2007 and ANSI/NIST-ITL 2-2008), when this field shall contain "S".				
Field Min	1			Occur Min	1
Field Max	1			Occur Max	1
Char Types	A			Special Chars	None
Format	n/a			Constraints	FMT = U
Code List	MINUTIA FORMAT CODES				
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:MinutiaeFormatNISTStandardIndicator			Cardinality	1..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.013

AFIS Feature Vector

Mnemonic	AFV			Conditionality	O		
				Status	Active		
Description	This field is a bit-packed field on the minutiae, the nearest neighbors, pattern class, and ridge counts. Its presence in the Type-9 record is allowed by including a “U” in the tagged field MINUTIAE FORMAT. It possesses sufficient features data to replace the rest of the Type-9 native mode record.						
Field Min	2048			Occur Min	0		
Field Max	2048			Occur Max	1		
Char Types	B			Special Chars	None		
Format	n/a			Constraints	n/a		
Code List							
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	fbi-ebts:Minutiae				Cardinality	0..*	
XML Level 2	nc:BinaryBase64Object				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.014

Finger Number

Mnemonic	FGN		Conditionality	M	
			Status	Active	
Description	This two-byte field shall contain a character designating the finger position. Multiple codes are not allowed. Possible finger positions for a single latent characterization are specified in the accompanying Type-2 logical record. If multiple latents from the same person are transmitted, the particular position corresponding to the Type-9 record must be identified with the Type-9 record.				
Field Min	2		Occur Min	1	
Field Max	2		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	n/a	
Code List	FINGERPRINT TEN FINGER NUMBER PLUS UNKNOWN CODES				
Source	IAFIS-DOC-01078-9.3 (Type-9)				
XML Level 1	fbi-ebts:Minutiae			Cardinality	0...*
XML Level 2	biom_1:MinutiaeFingerPositionCode			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.015

Number of Minutiae

Mnemonic	NMN			Conditionality	M		
				Status	Active		
Description	This field shall contain the count of the number of minutiae recorded for this fingerprint. The number should not exceed 254. If the number of minutiae provided in this field exceeds the number of minutiae the system can accommodate, the list will be truncated according to the reported minutiae quality. Minutiae below the proximal crease generally are not included.						
Field Min	2			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	n/a		
Code List							
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	fbi-ebts:Minutiae				Cardinality	0...*	
XML Level 2	ansi-nist:MinutiaeQuantity				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.016

Fingerprint Characterization Process

Mnemonic	FCP			Conditionality	C		
				Status	Active		
Description	This field of three information items identifies the characterization equipment and the amount of manual intervention employed in the characterization process. This field is optional if the 9.013 AFIS Feature Vector field is completed.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	fbi-ebts:Minutiae				Cardinality	0...*	
XML Level 2	fbi-ebts:MinutiaeReadingSystem				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.016_1

Fingerprint Characterization Process

Fingerprint Characterization Equipment

Mnemonic	VEN	Conditionality	M↑
		Status	Active
Description	The name of the organization (VEN) providing the fingerprint characterization process software.		
Field Min	3	Occur Min	1
Field Max	12	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	fbi-ebts:Minutiae	Cardinality	0...*
XML Level 2	fbi-ebts:MinutiaeReadingSystem	Cardinality	0..1
XML Level 3	biom_1:ReadingSystemName	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.016_2

Fingerprint Characterization Process

Fingerprint Characterization Version Identifier

Mnemonic	VID	Conditionality	M↑
		Status	Active
Description	The vendor-supplied, alphanumeric character pair representing the model and/or version of the automatic process used in fingerprint characterization.		
Field Min	2	Occur Min	1
Field Max	2	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	fbi-ebts:Minutiae	Cardinality	0...*
XML Level 2	fbi-ebts:MinutiaeReadingSystem	Cardinality	0..1
XML Level 3	biom_1:ReadingSystemSubsystemIdentification	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.016_3

Fingerprint Characterization Process

Fingerprint Characterization Method

Mnemonic	MET			Conditionality	M↑		
				Status	Active		
Description	An ordered sequence of three characters indicating the degree of automation in the fingerprint characterization process.						
Field Min	3			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	n/a		
Code List							
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	fbi-ebts:Minutiae				Cardinality	0...*	
XML Level 2	fbi-ebts:MinutiaeReadingSystem				Cardinality	0..1	
XML Level 3	fbi-ebts:ReadingSystemCodingMethodCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.017

AFIS/FBI Pattern Classification

Mnemonic	APC			Conditionality	0		
				Status	Active		
Description	This field contains one to three information items with each composed of three information items. Each information item reports a possible basic pattern class (APAT) and the ridge counts (RCN1, RCN2) defining its subpattern class. It further subdivides the basic pattern classes of loops and whorls according to the count of ridges crossed or touched along a straight line joining the core(s) to the delta(s). The count is one more than the number of intervening ridges. For latents, the AFIS/ FBI will apply a suitable tolerance to the specified ridge count for search space penetration.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	fbi-ebts:Minutiae				Cardinality	0...*	
XML Level 2	fbi-ebts:MinutiaeFingerPattern				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.017_1

AFIS/FBI Pattern Classification

Pattern Classification Code

Mnemonic	APAT			Conditionality	M↑		
				Status	Active		
Description	The list of acceptable CJIS pattern level fingerprint classifications.						
Field Min	2			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	n/a		
Code List	FINGERPRINT CJIS PATTERN CLASSIFICATION						
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	fbi-ebts:Minutiae				Cardinality	0...*	
XML Level 2	fbi-ebts:MinutiaeFingerPattern				Cardinality	1..1	
XML Level 3	fbi-ebts:FingerprintPatternClassificationCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.017_2

AFIS/FBI Pattern Classification

First Subpattern Ridge Count

Mnemonic	RCN1			Conditionality	C		
				Status	Active		
Description	The First Subpattern Ridge Count/Ridge Count Number (RCN1) represents the number of ridges between the core and the delta. For right and left slant loops, this count identifies the ridges crossed on a line between the core and the delta. For whorls, both the RCN1 and the RCN2 values have meaning. Permissible values are 1 to 30 for actual ridge counts and 30 if there are more than 30 ridges. The count of 31 indicates an unknown number of ridges, and 0 indicates that the ridge count is not applicable. If field 9.017 "APC" is present, at least one pattern classification must be provided. Up to two additional reference classes may be provided for a maximum of three total possible patterns.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	n/a		
Code List	FINGERPRINT RIDGE NUMBER CODES						
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	fbi-ebts:Minutiae				Cardinality	0...*	
XML Level 2	fbi-ebts:MinutiaeFingerPattern				Cardinality	1..1	
XML Level 3	biom_1:RidgeCountValue				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.017_3

AFIS/FBI Pattern Classification

Second Subpattern Ridge Count

Mnemonic	RCN2			Conditionality	C		
				Status	Active		
Description	The Second Subpattern Ridge Count/Ridge Count Number (RCN2) represents the number of ridges between the core and the delta. For right and left slant loops, this count identifies the ridges crossed on a line between the core and the delta. For whorls, both both the RCN1 and the RCN2 values have meaning. Permissible values are 1 to 30 for actual ridge counts and 30 if there are more than 30 ridges. The count of 31 indicates an unknown number of ridges, and 0 indicates that the ridge count is not applicable. If field 9.017 "APC" is present, at least one pattern classification must be provided. Up to two additional reference classes may be provided for a maximum of three total possible patterns.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	n/a		
Code List	FINGERPRINT RIDGE NUMBER CODES						
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	fbi-ebts:Minutiae				Cardinality	0...*	
XML Level 2	fbi-ebts:MinutiaeFingerPattern				Cardinality	1..1	
XML Level 3	biom_1:RidgeCountValue				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.018

Region of Value Polygon

Mnemonic	ROV		Conditionality	O	
			Status	Active	
Description	The complete, unparsed information defining the 3 to 20 vertices of a polygon that bound the region of the image from which the characterization products have been extracted. The order of the vertices must be in their consecutive order around the perimeter of the polygon, either clockwise or counterclockwise. The polygon side defined by the last information item and the first information item shall complete the polygon. The polygon shall be a simple, plane figure with no sides crossing and no interior holes.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	IAFIS-DOC-01078-9.3 (Type-9)				
XML Level 1	fbi-ebts:Minutiae			Cardinality	0...*
XML Level 2	fbi-ebts:MinutiaPolygonalVerticesPositions			Cardinality	0..1
XML Level 3	biom_1:PositionPolygonVertex			Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.018_1

Region of Value Polygon

Vertex

Mnemonic	XYM	Conditionality	M↑
		Status	Active
Description	One of the vertices of a polygon that bounds the region of the image from which the characterization products have been extracted. It consists of the combination of the row and column coordinates (XYM), with the first four digits representing the column and the second four digits representing the row in the XXXXXXXY structure. The vertices shall be identified in the same coordinate system as the minutiae, cores, and deltas in units of 10 micrometers and padded on the left with zeros as appropriate.		
Field Min	8	Occur Min	1
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	XXXXYYYY	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	fbi-ebts:Minutiae	Cardinality	0...*
XML Level 2	fbi-ebts:MinutiaPolygonalVerticesPositions	Cardinality	0..1
XML Level 3	biom_1:PositionPolygonVertex	Cardinality	3..20
XML Level 4	biom_1:PositionHorizontalCoordinateValue + biom_1:PositionVerticalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.019

Coordinate Offsets

Mnemonic	COF	Conditionality	O
		Status	Active
Description	This field allows the recording of translation, rotation, and image cropping employed in the characterization process to allow the examiner or analyst to overlay onto the original or intermediate image the features reported in this record. The units are in original image pixels and degrees using standard image processing coordinates; that is, (0,0) origin at the upper left, column index increasing from left to right, and row index increasing from top to bottom. For the native encoding, the column and row coordinate indexes (XYP) shall be coded as a single eight-digit integer number composed of a four-digit column coordinate (X) connected to a four-digit row coordinate (Y) using a format of XXXXXXXY. The column and row coordinate indexes (XYP) shall be coded as a minus sign is permitted in the leftmost digit of a four-digit group.		
Field Min	8	Occur Min	0
Field Max	8	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	fbi-ebts:Minutiae	Cardinality	0...*
XML Level 2	fbi-ebts:MinutiaCoordinateOffsets	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.019_1

Coordinate Offsets

Offset to Upper Left Corner Subimage

Mnemonic	XYP			Conditionality	M ↑		
				Status	Active		
Description	The offset to the upper left corner of a non-rotated subimage used subsequently in image processing.						
Field Min	8			Occur Min	1		
Field Max	8			Occur Max	1		
Char Types	N			Special Chars	Minus Sign		
Format	XXXXYYYY			Constraints	n/a		
Code List							
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	fbi-ebts:Minutiae				Cardinality	0...*	
XML Level 2	fbi-ebts:MinutiaCoordinateOffsets				Cardinality	0..1	
XML Level 3	fbi-ebts:OffsetUpperLeftCoordinates				Cardinality	1..1	
XML Level 4	biom_1:PositionHorizontalCoordinateValue + biom_1:PositionVerticalCoordinateValue				Cardinality	1..1	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.019_2

Coordinate Offsets

Center of Rotation in Subimage

Mnemonic	XYP		Conditionality	C	
			Status	Active	
Description	The coordinates of the center of rotation within the Subimage about which the Subimage is rotated. If no rotation has been applied, the second, third, and fourth information item positions may be empty, but the intervening <US> Seperators must remain.				
Field Min	8		Occur Min	1	
Field Max	8		Occur Max	1	
Char Types	N		Special Chars	Minus Sign	
Format	XXXXYYYY		Constraints	n/a	
Code List					
Source	IAFIS-DOC-01078-9.3 (Type-9)				
XML Level 1	fbi-ebts:Minutiae			Cardinality	0...*
XML Level 2	fbi-ebts:MinutiaCoordinateOffsets			Cardinality	0..1
XML Level 3	fbi-ebts:OffsetCenterOfRotation			Cardinality	0..1
XML Level 4	biom_1::PositionHorizontalCoordinateValue + biom_1::PositionVerticalCoordinateValue			Cardinality	1..1
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.019_3

Coordinate Offsets

Rotation Angle Clock Wise Degrees

Mnemonic	THET	Conditionality	C
		Status	Active
Description	The clockwise rotation angle (THET) in ten-thousandths of a degree resolution (e.g., 072.2342) including the decimal point. If no rotation has been applied, the second, third, and fourth information item positions may be empty, but the intervening <US> Seperators must remain.		
Field Min	8	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	Period
Format	n/a	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	fbi-ebts:Minutiae	Cardinality	0...*
XML Level 2	fbi-ebts:MinutiaCoordinateOffsets	Cardinality	0..1
XML Level 3	biom_1::PositionThetaAngleMeasure	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.019_4

Coordinate Offsets

Rotation Center in Rotated Subimage

Mnemonic	XYP	Conditionality	C
		Status	Active
Description	The item contains the coordinates of the center of rotation within the subimage about which the subimage is rotated. If no rotation has been applied, the second, third, and fourth information item positions may be empty, but the intervening <US> Seperators must remain.		
Field Min	8	Occur Min	1
Field Max	8	Occur Max	1
Char Types	N	Special Chars	Minus Sign
Format	XXXXYYYY	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	fbi-ebts:Minutiae	Cardinality	0...*
XML Level 2	fbi-ebts:MinutiaCoordinateOffsets	Cardinality	0..1
XML Level 3	fbi-ebts:OffsetTranslatedCenterOfRotation	Cardinality	0..1
XML Level 4	biom_1::PositionHorizontalCoordinateValue + biom_1::PositionVerticalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.019_5

Coordinate Offsets

Offset to Upper Left Corner Final Subimage

Mnemonic	XYP	Conditionality	C
		Status	Active
Description	The fifth information item contains the upper-left-corner column and row offsets to a cropped subimage taken from the rotated image once adjusted to eliminate negative coordinate values. If no second sub-image is generated, this field may be left empty.		
Field Min	8	Occur Min	1
Field Max	8	Occur Max	1
Char Types	N	Special Chars	Minus Sign
Format	XXXXYYYY	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	fbi-ebts:Minutiae	Cardinality	0..*
XML Level 2	fbi-ebts:MinutiaCoordinateOffsets	Cardinality	0..1
XML Level 3	fbi-ebts:OffsetTranslatedUpperLeftCoordinates	Cardinality	0..1
XML Level 4	biom_1::PositionHorizontalCoordinateValue + biom_1::PositionVerticalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.02

Orientation Uncertainty

Mnemonic	ORN	Conditionality	M
		Status	Active
Description	The orientation uncertainty is a substantial contribution for AFIS/FBI latent characterizations and is not used for tenprint searches. This one-to-three character field contains an estimate of the deviation in degrees of the latent image (after rotation and translation to support editing and characterization) relative to fingertip up. The uncertainty would be zero if the impression were made with the extended finger aligned with the vertical of the displayed image. It is expected to be a human visual estimate of "the final image is aligned tip up within about X-degrees." If the examiner does not provide an estimate, the default value shall be 180. This field is optional if the 9.013 AFIS Feature Vector field is completed.		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	fbi-ebts:Minutiae	Cardinality	0..*
XML Level 2	biom_1:PositionUncertaintyValue	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.021

Core Attributes

Mnemonic	CRA			Conditionality	0		
				Status	Active		
Description	The complete, unparsed information for cores that can be perceived in the fingerprint (both ten-print and latent). If there is no core perceived in the fingerprint image, the tagged field should be omitted.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	2		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	fbi-ebts:Minutiae				Cardinality	0...*	
XML Level 2	fbi-ebts:MinutiaeFingerCoreAttributePosition				Cardinality	0..2	
XML Level 3	fbi-ebts:MinutiaeFingerCoreAttributePosition				Cardinality	0..2	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.021_1

Core Attributes

Core Location

Mnemonic	XYM		Conditionality	C	
			Status	Active	
Description	The X and Y coordinates of the core in units of 10 micrometers with the origin at the upper left of the fingerprint image. Note: Also called Core Position. Maximum of two cores reported. If only one core, the first subfield shall be terminated with the G/S separator instead of the R/S separator, and the second subfield shall be deleted.				
Field Min	8		Occur Min	1	
Field Max	8		Occur Max	1	
Char Types	N		Special Chars	None	
Format	XXXXYYYY		Constraints	n/a	
Code List					
Source	IAFIS-DOC-01078-9.3 (Type-9)				
XML Level 1	fbi-ebts:Minutiae			Cardinality	0...*
XML Level 2	fbi-ebts:MinutiaeFingerCoreAttributePosition			Cardinality	0..2
XML Level 3	biom_1:PositionHorizontalCoordinateValue			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.021_2

Core Attributes

Core Direction in Degrees

Mnemonic	DID	Conditionality	C
		Status	Active
Description	The direction in integer degrees counterclockwise from horizontal right of the core opening through the center of the curvature for the innermost recurve at maximum curvature. Maximum of two cores reported. If only one core, the first subfield shall be terminated with the G/S separator instead of the R/S separator, and the second subfield shall be deleted.		
Field Min	3	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	fbi-ebts:Minutiae	Cardinality	0...*
XML Level 2	fbi-ebts:MinutiaeFingerCoreAttributePosition	Cardinality	0..2
XML Level 3	biom_1:PositionDirectionDegreeValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.021_3

Core Attributes

Core Position Uncertainty

Mnemonic	PUM	Conditionality	C
		Status	Active
Description	The radius in integer units of 10 micrometers of the position uncertainty in the manual or automatic placement of the core. Maximum of two cores reported. If only one core, the first subfield shall be terminated with the G/S separator instead of the R/S separator, and the second subfield shall be deleted.		
Field Min	4	Occur Min	1
Field Max	4	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	fbi-ebts:Minutiae	Cardinality	0...*
XML Level 2	fbi-ebts:MinutiaeFingerCoreAttributePosition	Cardinality	0..2
XML Level 3	biom_1:PositionUncertaintyValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.022

Delta Attributes

Mnemonic	DLA			Conditionality	O		
				Status	Active		
Description	The complete, unparsed information for deltas that can be perceived in the fingerprint for both AFIS/FBI latent and ten-print characterizations.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	2		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeFingerDeltaAttributePosition				Cardinality	0...*	
XML Level 3	fbi-ebts:MinutiaeFingerDeltaAttributePosition				Cardinality	0..2	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.022_1

Delta Attributes

Delta Location

Mnemonic	XYM		Conditionality	C	
			Status	Active	
Description	The X and Y coordinates of the delta in units of 10 micrometers with the origin at the upper left of the fingerprint image. Note: Also called Delta Position. Maximum of two cores reported. If only one core, the first subfield shall be terminated with the G/S separator instead of the R/S separator, and the second subfield shall be deleted.				
Field Min	8		Occur Min	1	
Field Max	8		Occur Max	1	
Char Types	N		Special Chars	None	
Format	XXXXXXXX		Constraints	n/a	
Code List					
Source	IAFIS-DOC-01078-9.3 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0..1
XML Level 2	biom_1:MinutiaeFingerDeltaAttributePosition			Cardinality	0..*
XML Level 3	biom_1:PositionHorizontalCoordinateValue			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.022_2

Delta Attributes

Upward Flow Direction

Mnemonic	DIDU		Conditionality	C	
			Status	Active	
Description	The direction in integer degrees counterclockwise from horizontal right of the direction of the ridge flow upward from the delta. Direction angles shall be reported between “001” and “360” degrees only. The value “000” shall be reserved for “direction not provided” while “360” shall be equivalent to zero degrees. Maximum of two cores reported. If only one core, the first subfield shall be terminated with the G/S separator instead of the R/S separator, and the second subfield shall be deleted.				
Field Min	3		Occur Min	1	
Field Max	3		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	n/a	
Code List					
Source	IAFIS-DOC-01078-9.3 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0...1
XML Level 2	biom_1:MinutiaeFingerDeltaAttributePosition			Cardinality	0...*
XML Level 3	biom_1:PositionDirectionDegreeValue			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

9.022_3

Delta Attributes

Leftward Flow Direction

Mnemonic	DIDL			Conditionality	C
				Status	Active
Description	The direction in integer degrees counterclockwise from horizontal right of the direction of the ridge flow outward from the delta and to the left. Direction angles shall be reported between “001” and “360” degrees only. The value “000” shall be reserved for "direction not provided" while "360" shall be equivalent to zero degrees. Maximum of two cores reported. If only one core, the first subfield shall be terminated with the G/S separator instead of the R/S separator, and the second subfield shall be deleted.				
Field Min	3			Occur Min	1
Field Max	3			Occur Max	1
Char Types	N			Special Chars	None
Format	n/a			Constraints	n/a
Code List					
Source	IAFIS-DOC-01078-9.3 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0...1
XML Level 2	biom_1:MinutiaeFingerDeltaAttributePosition			Cardinality	0...*
XML Level 3	biom:MinutiaeDeltaDirectionLeftUncertaintyValue			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Delta Attributes

Rightward Flow Direction

Mnemonic	DIDR		Conditionality	C	
			Status	Active	
Description	The direction in integer degrees counterclockwise from horizontal right of the direction of the ridge flow outward from the delta and to the right. Direction angles shall be reported between “001” and “360” degrees only. The value “000” shall be reserved for “direction not provided” while “360” shall be equivalent to zero degrees. Maximum of two cores reported. If only one core, the first subfield shall be terminated with the G/S seperator instead of the R/S separator, and the second subfield shall be deleted.				
Field Min	3		Occur Min	1	
Field Max	3		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	n/a	
Code List					
Source	IAFIS-DOC-01078-9.3 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0...1
XML Level 2	biom_1:MinutiaeFingerDeltaAttributePosition			Cardinality	0...*
XML Level 3	biom_1:PositionDirectionDegreeValue			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

9.022_5

Delta Attributes

Delta Position Uncertainty

Mnemonic	PUM			Conditionality	C		
				Status	Active		
Description	The radius of position uncertainty in the manual or automatic placement of the delta in integer units of 10 micrometers. Maximum of two cores reported. If only one core, the first subfield shall be terminated with the G/S seperator instead of the R/S separator, and the second subfield shall be deleted.						
Field Min	4			Occur Min	1		
Field Max	4			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	n/a		
Code List							
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFingerDeltaAttributePosition				Cardinality	0...*	
XML Level 3	biom_1:PositionUncertaintyValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.023

Minutiae and Ridge Count Data

Mnemonic	MAT			Conditionality	M		
				Status	Active		
Description	This field shall contain all of the individual minutiae and ridge count data associated with the current fingerprint impression. It shall be composed of as many information items as there are minutiae stated in field 9.015 (NMN). Each subfield shall be devoted to a single minutia and shall consist of multiple information items. For traditional encoding, subfields shall be separated by the separator character and all information items within a subfield shall be separated by the designated separator character. The minutiae shall be indexed from one to NMN and need not be ordered according to any particular attribute. The first two information items are required, and the others are used to achieve best possible candidate list performance. An information item may be omitted, but its separator character must remain, except all ridge count data must be present with special values designating missing or omitted data.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	254		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	biom_1:MinutiaRidgeCount				Cardinality	0...*	
XML Level 2	fbi-ebts:MinutiaDetail				Cardinality	1..254	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.023_1

Minutiae and Ridge Count Data

Minutiae Index Number

Mnemonic	MDX			Conditionality	M		
				Status	Active		
Description	This information item is the minutiae index number, which shall be initialized to “1” and incremented by “1” for each additional minutia in the fingerprint. This index number serves to identify each individual minutia.						
Field Min	3			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	n/a		
Code List							
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	biom_1:MinutiaRidgeCount				Cardinality	0...*	
XML Level 2	biom_1:MinutiaIdentification				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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9.023_2

Minutiae and Ridge Count Data

Location Direction

Mnemonic	XYT	Conditionality	M
		Status	Active
Description	The X and Y coordinates are values ranging from zero upward, and the theta direction value, between 000 and 360, shall comprise the second required information item. These three values shall be coded and recorded as a single 11-digit integer corresponding to the connected X, Y, and theta values, in that order. If the minutiae is of Type D, the theta value shall be recorded as "000." The origin of the coordinate system shall be the upper left corner of the image with X increasing to the right and Y increasing downward. The coordinate system units shall be units of 0.01mm (10 micrometers). The direction of an ending shall be into the ending ridge and the direction of a bifurcation shall be into the white space created by the dividing ridge. Angles shall be in integer degrees measured positive counterclockwise from a reference horizontal and to the right. The XY coordinates shall be applied after all rotation and translation of the image has been accomplished.		
Field Min	11	Occur Min	1
Field Max	11	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	biom_1:MinutiaRidgeCount	Cardinality	0...*
XML Level 2	biom_1:PositionHorizontalCoordinateValue and biom_1::PositionVerticalCoordinateValue	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.023_3

Minutiae and Ridge Count Data

Quality Measure

Mnemonic	QMS	Conditionality	O
		Status	Active
Description	This information item is the minutiae quality measure. The two-digit values shall range from 0 to 63. The value zero Description shall indicate a manually encoded minutia. The value "1" shall indicate that no method of indicating a confidence level is available. Values between 2 and 63 shall indicate decreasing levels of confidence, with 2 denoting the greatest confidence.		
Field Min	2	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	biom_1:MinutiaRidgeCount	Cardinality	0...*
XML Level 2	biom_1:MinutiaQualityValue	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (IAFIS Features)

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Minutiae and Ridge Count Data

Minutiae Type Designation

Mnemonic	MNT	Conditionality	O
		Status	Active
Description	A single character designating the minutiae type within the IAFIS Features for minutiae record type.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	*
Char Types	AN	Special Chars	None
Format	n/a	Constraints	n/a
Code List	IAFIS MINUTIAE CODES		
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	biom_1:MinutiaRidgeCount	Cardinality	0...*
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.023_5

Minutiae and Ridge Count Data

Ridge Count Data Octant 0

Mnemonic	MRO	Conditionality	C
		Status	Active
Description	The ridge count data for the nearest neighboring minutia of the indexed minutia. This subfield contains information for Octant 0 and shall consist of a minutiae index number and a ridge count combined to form a five digit number. Up to eight neighboring minutiae can be recorded, each being the nearest neighbor in an angular sector of 45 degrees (octant) with the zeroth octant centered (+/- 22.5 degrees) and aligned with the direction of the minutiae and increasing in octant index in the counterclockwise direction. If a minutia does not have a neighbor in a particular octant, the value "25515" should be used for the sub-item in native encoding. Fox XML encoding, this information item is represented in separate fields for the index and ridge count.		
Field Min	5	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	NNNNN	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	biom_1:MinutiaRidgeCount	Cardinality	0...*
XML Level 2	biom_1::RidgeCountReferenceIdentification/nc:IdentificationID + biom_1:RidgeCountValue	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Minutiae and Ridge Count Data

Ridge Count Data Octant 1

Mnemonic	MRO1	Conditionality	C
		Status	Active
Description	The ridge count data for the nearest neighboring minutia of the indexed minutia. This subfield contains information for Octant 1 and shall consist of a minutiae index number and a ridge count combined to form a five digit number. If a minutia does not have a neighbor in a particular octant, the value "25515" should be used for the sub-item in native encoding. Fox XML encoding, this information item is represented in separate fields for the index and ridge count.		
Field Min	5	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	NNNNN	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	biom_1:MinutiaRidgeCount	Cardinality	0...*
XML Level 2	biom_1:RidgeCountReferenceIdentification/nc:IdentificationID + biom_1:RidgeCountValue	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.023_7

Minutiae and Ridge Count Data

Ridge Count Data Octant 2

Mnemonic	MRO2	Conditionality	C
		Status	Active
Description	The ridge count data for the nearest neighboring minutia of the indexed minutia. This subfield contains information for Octant 2 and shall consist of a minutiae index number and a ridge count combined to form a five digit number. If a minutia does not have a neighbor in a particular octant, the value "25515" should be used for the sub-item in native encoding. Fox XML encoding, this information item is represented in separate fields for the index and ridge count.		
Field Min	5	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	NNNNN	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	biom_1:MinutiaRidgeCount	Cardinality	0...*
XML Level 2	biom_1:RidgeCountReferenceIdentification/nc:IdentificationID + biom_1:RidgeCountValue	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Minutiae and Ridge Count Data

Ridge Count Data Octant 3

Mnemonic	MRO3	Conditionality	C
		Status	Active
Description	The ridge count data for the nearest neighboring minutia of the indexed minutia. This subfield contains information for Octant 3 and shall consist of a minutiae index number and a ridge count combined to form a five digit number. If a minutia does not have a neighbor in a particular octant, the value "25515" should be used for the sub-item in native encoding. Fox XML encoding, this information item is represented in separate fields for the index and ridge count.		
Field Min	5	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	NNNNN	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	biom_1:MinutiaRidgeCount	Cardinality	0...*
XML Level 2	biom_1:RidgeCountReferenceIdentification/nc:IdentificationID + biom_1: RidgeCountValue	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.023_9

Minutiae and Ridge Count Data

Ridge Count Data Octant 4

Mnemonic	MRO4	Conditionality	C
		Status	Active
Description	The ridge count data for the nearest neighboring minutia of the indexed minutia. This subfield contains information for Octant 4 and shall consist of a minutiae index number and a ridge count combined to form a five digit number. If a minutia does not have a neighbor in a particular octant, the value "25515" should be used for the sub-item in native encoding. Fox XML encoding, this information item is represented in separate fields for the index and ridge count.		
Field Min	5	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	NNNNN	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	biom_1:MinutiaRidgeCount	Cardinality	0...*
XML Level 2	biom_1:RidgeCountReferenceIdentification/nc:IdentificationID + biom_1: RidgeCountValue	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Minutiae and Ridge Count Data

Ridge Count Data Octant 5

Mnemonic	MRO5	Conditionality	C
		Status	Active
Description	The ridge count data for the nearest neighboring minutia of the indexed minutia. This subfield contains information for Octant 5 and shall consist of a minutiae index number and a ridge count combined to form a five digit number. If a minutia does not have a neighbor in a particular octant, the value "25515" should be used for the sub-item in native encoding. Fox XML encoding, this information item is represented in separate fields for the index and ridge count.		
Field Min	5	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	NNNNN	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	biom_1:MinutiaRidgeCount	Cardinality	0...*
XML Level 2	biom_1:RidgeCountReferenceIdentification/nc:IdentificationID + biom_1: RidgeCountValue	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.023_11

Minutiae and Ridge Count Data

Ridge Count Data Octant 6

Mnemonic	MRO6	Conditionality	C
		Status	Active
Description	The ridge count data for the nearest neighboring minutia of the indexed minutia. This subfield contains information for Octant 6 and shall consist of a minutiae index number and a ridge count combined to form a five digit number. If a minutia does not have a neighbor in a particular octant, the value "25515" should be used for the sub-item in native encoding. Fox XML encoding, this information item is represented in separate fields for the index and ridge count.		
Field Min	5	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	NNNNN	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	biom_1:MinutiaRidgeCount	Cardinality	0...*
XML Level 2	biom_1:RidgeCountReferenceIdentification/nc:IdentificationID + biom_1: RidgeCountValue	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Minutiae and Ridge Count Data

Ridge Count Data Octant 7

Mnemonic	MRO7			Conditionality	C		
				Status	Active		
Description	The ridge count data for the nearest neighboring minutia of the indexed minutia. This subfield contains information for Octant 7 and shall consist of a minutiae index number and a ridge count combined to form a five digit number. If a minutia does not have a neighbor in a particular octant, the value "25515" should be used for the sub-item in native encoding. Fox XML encoding, this information item is represented in separate fields for the index and ridge count.						
Field Min	5			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	NNNNN			Constraints	n/a		
Code List							
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	biom_1:MinutiaRidgeCount				Cardinality	0...*	
XML Level 2	biom_1:RidgeCountReferenceIdentification/nc:IdentificationID + biom_1: RidgeCountValue				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.023_13

Minutiae and Ridge Count Data

Octant Residuals

Mnemonic	RSO			Conditionality	O		
				Status	Active		
Description	The RSO indicates into which half of the octant each neighboring minutia lies. This subfield is beneficial for performance but not mandatory. The characters are ordered left to right according to the ascending octant index. The corresponding character shall be 1 if the neighboring minutia lies in the counterclockwise half of the octant. The corresponding character shall be 0 if the neighboring minutia lies in the clockwise half of the octant or if there is no neighboring minutiae in the octant.						
Field Min	8			Occur Min	0		
Field Max	8			Occur Max	*		
Char Types	N			Special Chars	None		
Format	NNNNNNNN			Constraints	n/a		
Code List	OCTANT RESIDUALS CODES						
Source	IAFIS-DOC-01078-9.3 (Type-9)						
XML Level 1	biom_1:MinutiaRidgeCount				Cardinality	0...*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Characterization Quality

Mnemonic	CHQ	Conditionality	O
		Status	Active
Description	This is a single information item field of three numeric characters with the possible value of 1 to 254. The principal quality parameter is the "Equivalent Number of Minutiae." The distribution of the parameter over thousands of fingerprints approximates a Gaussian distribution with a mean of about 50 and a standard deviation of about 12. The equivalent number of minutiae is calculated as the sum of the weighted normalized quality with the weighting being the number of qualified neighbors for the minutiae divided by the maximum number of neighbors (eight). The normalized minutiae quality ranges from unity (best) to zero (worst). A qualified neighbor would be another minutia with a reliable separating ridge count (less than 14) and within a reliable distance (not more than 1/5 inch).		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	*
Char Types	N	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	fbi-ebts:Minutiae	Cardinality	0...*
XML Level 2	fbi-ebts:MinutiaCharacterizationQualityValue	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

9.025

Classifier Quality

Mnemonic	CLQ	Conditionality	O
		Status	Active
Description	This is a single information item field of seven characters representing a positive real number between one (1.0000) and 99 (99.9999) indicating the quality or confidence of the automatic classification. The presence of the information item may reduce the processing load, but its absence will not degrade performance. A value of 1.0000 indicates best possible quality or confidence; increasing values indicate progressively worse quality or confidence. The information item format shall be XX.YYYY in which XX represents the integer portion and YYYY the fractional portion to four decimal places with a decimal point (period) between.		
Field Min	6	Occur Min	0
Field Max	7	Occur Max	*
Char Types	N	Special Chars	Period
Format	XX.YYYY	Constraints	n/a
Code List			
Source	IAFIS-DOC-01078-9.3 (Type-9)		
XML Level 1	fbi-ebts:Minutiae	Cardinality	0...*
XML Level 2	fbi-ebts:MinutiaClassifierQualityValue	Cardinality	0...2
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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M1 CBEFF Information

Mnemonic	CBI	Conditionality	M
		Status	Active
Description	This field is mandatory if the INCITS 378 feature set is contained in the transaction. Otherwise, it shall not occur. It shall contain three information items CFO, CFT, and CPI, when present.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

9.126_1

M1 CBEFF Information

CBEFF Format Owner

Mnemonic	CFO	Conditionality	M↑
		Status	Active
Description	The information item shall contain the value "27". This is the identification of the CBEFF Format Owner assigned by the International Biometric Industry Association (IBIA) to INCITS Technical Committee M1.		
Field Min	2	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	NN	Constraints	CFO = 27
Code List	CBEFF FORMAT OWNER CODES		
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom_1:CBEFFFormatOwnerIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (INCITS M1-378 Features)

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9.126_2

M1 CBEFF Information

CBEFF Format Type

Mnemonic	CFT	Conditionality	M↑
		Status	Active
Description	The second information item (CBEFF format type / CFT) is assigned a value of "513" (following INCITS 378-2004) if this record contains Field 9.137: FMD without Field 9.138: RCI, Field 9.139: CIN or Field 9.140: DIN. A value of "514" (following INCITS 378-2004) indicates the presence of one of the previously indicated fields. If INCITS 378-2009 is followed, a value of "515" is entered and does not indicate the specific presence or absence of these fields.		
Field Min	3	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	NNN	Constraints	CFT = 513 or 514 for INCITS 378-2004 and 515 for INCITS 378-2009
Code List	CBEFF FORMAT TYPE CODES		
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom_1:CBEFFFormatCategoryIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.126_3

M1 CBEFF Information

CBEFF Product Identifier

Mnemonic	CPI	Conditionality	M↑
		Status	Active
Description	This information item identifies the "owner" of the encoding equipment. The vendor establishes this value. It can be obtained from the IBIA website (www.ibia.org) if it is posted. If it is not posted, then use the value "0000"		
Field Min	8	Occur Min	1
Field Max	8	Occur Max	1
Char Types	H	Special Chars	None
Format	HHHH	Constraints	None
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom_1:CBEFFProductIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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M1 Capture Equipment Identification

Mnemonic	CEI	Conditionality	M
		Status	Active
Description	This field shall contain two information items: the Appendix F Status (AFS) and the Capture Equipment ID (CID).		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0..1
XML Level 2	biom_1:ImageCaptureDetail	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.127_1

M1 Capture Equipment Identification

Appendix F Status

Mnemonic	AFS	Conditionality	M↑
		Status	Active
Description	This field shall contain "APPF" if the equipment used originally to acquire the image was certified to conform with Appendix F specifications, (the list of certified products at http://fbibiospecs.org). If the equipment did not conform it will contain the value of "NONE".		
Field Min	4	Occur Min	1
Field Max	4	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	AFS = APPF or NONE
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0..1
XML Level 2	biom_1:ImageCaptureDetail	Cardinality	1..1
XML Level 3	biom_1:CaptureDeviceCertificationCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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M1 Capture Equipment Identification

Capture Equipment Identifier

Mnemonic	CID			Conditionality	M ↑		
				Status	Active		
Description	The information item shall contain the vendor-assigned product number/identifier (up to 30 characters) of the capture equipment. A value of "0" indicates that the capture equipment ID is unreported.						
Field Min	1			Occur Min	1		
Field Max	30			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None (0 = unreported)		
Code List	BIOMETRIC CAPTURE DEVICE CONFORMANCE CODES						
Source	INCITS 378						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0...1	
XML Level 2	biom_1:ImageCaptureDetail				Cardinality	1..1	
XML Level 3	biom_1:CaptureDeviceIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.128

M1 Horizontal Line Length

Mnemonic	HLL		Conditionality	M	
			Status	Active	
Description	The number of pixels contained on a single horizontal line of the image. The maximum horizontal size is limited to 99,999 for type 9 data. The minimum value is 10 pixels. The total image size (HLL times VLL) can be accommodated in Field 9.001 for Traditional encoding.				
Field Min	2		Occur Min	1	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	10 <= HLL <= 99,999; positive integer	
Code List					
Source	INCITS 378				
XML Level 1	biom_1:INCITSMinutiae			Cardinality	0...1
XML Level 2	biom1:FingerImpressionImage			Cardinality	1...1
XML Level 3	biom_1:ImageHorizontalLineLengthPixelQuantity			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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M1 Vertical Line Length

Mnemonic	VLL	Conditionality	M
		Status	Active
Description	The number of horizontal lines contained in the image. The maximum vertical size is limited 99,999 pixels for type 9 data. The minimum value is 10 pixels. The total image size (HLL times VLL) can be accommodated in Field 9.001 for Traditional encoding.		
Field Min	2	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	10 <= VLL <= 99,999; positive integer
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0..1
XML Level 2	biom1:FingerImpressionImage	Cardinality	1..1
XML Level 3	biom_1:ImageVerticalLineLengthPixelQuantity	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.13

Scale Units

Mnemonic	SLC	Conditionality	M
		Status	Active
Description	The image sampling frequency (pixel density). A value of "1" shall indicate pixels per inch. A value of "2" shall indicate pixels per centimeter. A value of "0" in this field indicates that no scale is provided, and the quotient of THPS/TVPS (Fields 9.131/9.132) shall provide the pixel aspect ratio.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	SLC = 0, 1 or 2
Code List	SCALE UNIT CODES		
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0..1
XML Level 2	biom1:FingerImpressionImage	Cardinality	1..1
XML Level 3	biom_1:ImageScaleUnitsCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Transmitted Horizontal Pixel Scale

Mnemonic	THPS			Conditionality	M		
				Status	Active		
Description	This is the integer pixel density used in the horizontal direction of the image if SLC has a value of “1” or “2”. If SLC has a value of “0”, this information item shall contain the horizontal component of the pixel aspect ratio, up to 5 integer digits. For example, if the SLC value = 1, then the value of THPS could be ‘1000’ for a 1000 ppi sensor.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	INCITS 378						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0..1	
XML Level 2	biom1:FingerImpressionImage				Cardinality	1..1	
XML Level 3	biom_1:ImageHorizontalPixelDensityValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.132

Transmitted Vertical Pixel Scale

Mnemonic	TVPS			Conditionality	M		
				Status	Active		
Description	This is the integer pixel density used in the vertical direction of the image if SLC has a value of “1” or “2”. If SLC has a value of “0”, this information item shall contain the vertical component of the pixel aspect ratio, up to 5 integer digits. If SLC is 1 or 2, then TVPS shall equal THPS.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	INCITS 378						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0..1	
XML Level 2	biom1:FingerImpressionImage				Cardinality	1..1	
XML Level 3	biom_1:ImageVerticalPixelDensityValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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M1 Finger View

Mnemonic	FVW	Conditionality	M
		Status	Active
Description	This mandatory field contains the view number of the finger associated with this record's data. The view number begins with "0" and increments by one to "15". Finger view differentiates multiple images of the same finger that are included in the transaction to be taken consecutively to develop an "average" template for that particular set of finger minutiae for enrollment applications.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= FVW <= 15
Code List	FINGERPRINT FINGER VIEW CODES		
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom1:FingerImpressionImage	Cardinality	1...1
XML Level 3	biom_1:FingerViewNumeric	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.134

M1 Friction Ridge Generalized Position

Mnemonic	FGP	Conditionality	M
		Status	Active
Description	This is a mandatory field. See ANSI/NIST ITL for details. Valid codes for this field are between 1 and 10, taken from Look Up Codes to indicate the finger position. (Note that codes 16 and 17 are not covered in INCITS 378).		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= FGP <= 10
Code List	FRICTION RIDGE GENERALIZED POSITION		
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom1:FingerImpressionImage	Cardinality	1...1
XML Level 3	biom_1:FingerPositionCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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M1 Friction Ridge Quality Data

Mnemonic	FQD	Conditionality	M
		Status	Active
Description	This mandatory field shall contain the quality of the overall finger minutiae data. There may be a subfield for each algorithm and predictive performance measure. Each subfield shall contain the first information item (quality value / QVU) described in ANSI/NIST ITL. The second two information items are optional for this field. (algorithm vendor identification / QAV and algorithm product identification / QAP). The 2004 version of INCITS 378 had only 1 byte for quality with no second and third information items. The 2009 version of INCITS 378 had all three information items and all three are mandatory in that standard. The 2007 and 2008 versions of ANSI/NIST-ITL mandated the presence of all three information items. However, this version of ANSI/NIST ITL allows the second and third items to be optional, in order to accommodate those users following the 2004 version of INCITS 378.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom1:FingerImpressionImage	Cardinality	1...1
XML Level 3	biom_1:MinutiaeQuality	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

9.135_0

M1 Friction Ridge Quality Data

Subfields: Repeating sets of information items

Mnemonic	FQD_0	Conditionality	M
		Status	New-Active
Description	This mandatory field shall contain the quality of the overall finger minutiae data. There may be a subfield for each algorithm and predictive performance measure. Each subfield shall contain the first information item (quality value / QVU) described in ANSI/NIST ITL. The second two information items are optional for this field. (algorithm vendor identification / QAV and algorithm product identification / QAP). The 2004 version of INCITS 378 had only 1 byte for quality with no second and third information items. The 2009 version of INCITS 378 had all three information items and all three are mandatory in that standard. The 2007 and 2008 versions of ANSI/NIST-ITL mandated the presence of all three information items. However, this version of ANSI/NIST ITL allows the second and third items to be optional, in order to accommodate those users following the 2004 version of INCITS 378.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	INCITS 379		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom1:FingerImpressionImage	Cardinality	1...1
XML Level 3	biom_1:MinutiaeQuality	Cardinality	1..10
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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M1 Friction Ridge Quality Data

Quality Value

Mnemonic	QVU	Conditionality	M↑
		Status	Active
Description	This information item shall contain the integer image quality score between 0 and 100 (inclusive) assigned to the image data by a quality algorithm. Higher values indicate better quality. An entry of "255" shall indicate a failed attempt to calculate a quality score. An entry of "254" shall indicate that no attempt to calculate a quality score was made.		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= QVU <= 100 or QVU = 254 or QVU = 255; integer
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom1:FingerImpressionImage	Cardinality	1...1
XML Level 3	biom_1:MinutiaeQuality	Cardinality	1..10
XML Level 4	biom_1:QualityValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.135_2

M1 Friction Ridge Quality Data

Algorithm Vendor Identification

Mnemonic	QAV	Conditionality	O
		Status	Active
Description	This information item shall specify the ID of the vendor of the quality algorithm used to calculate the quality score. This 4-digit hex value is assigned by IBIA and expressed as four ASCII characters. The IBIA shall maintain the Vendor Registry of CBEFF Biometric Organizations that will map the value in this field to a registered organization.		
Field Min	4	Occur Min	0
Field Max	4	Occur Max	1
Char Types	H	Special Chars	D
Format	n/a	Constraints	None
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom1:FingerImpressionImage	Cardinality	1...1
XML Level 3	biom_1:MinutiaeQuality	Cardinality	1..10
XML Level 4	biom_1:QualityAlgorithmVendorIdentification/nc:IdentificationID	Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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M1 Friction Ridge Quality Data

Algorithm Product Identification

Mnemonic	QAP	Conditionality	O
		Status	Active
Description	This information item shall specify a numeric product code assigned by the vendor of the quality algorithm, and indicates which of the vendor's algorithms was used in the calculation of the quality score. Description may be registered with the IBIA, but registration is not required. This field contains the ASCII representation of the integer product code and should be within the range of 1 to 65535.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= QAP <= 65,535
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom1:FingerImpressionImage	Cardinality	1...1
XML Level 3	biom_1:MinutiaeQuality	Cardinality	1..10
XML Level 4	biom_1:QualityAlgorithmProductIdentification/nc:IdentificationID	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.136

M1 Number of Minutiae

Mnemonic	NOM	Conditionality	M
		Status	Active
Description	This mandatory field shall contain a count of the number of minutiae recorded in this block.		
Field Min	1	Occur Min	1
Field Max	4	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= NOM <= 9,999; positive integer
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom1:FingerImpressionImage	Cardinality	1...1
XML Level 3	biom_1:MinutiaeQuality	Cardinality	1..1
XML Level 4	biom_1:MinutiaeQuantity	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (INCITS M1-378 Features)

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9.137

M1 Finger Minutiae Data

Mnemonic	FMD	Conditionality	M
		Status	Active
Description	The total number of minutiae information items must agree with the count found in field 9.136 (NOM). The first information item is the minutiae index number, which shall be initialized to "1" and incremented by "1" for each additional minutia in the fingerprint. The second and third information items are the 'x' coordinate and 'y' coordinates of the minutiae in pixel units. The fourth information item is recorded in units of two degrees and shall be nonnegative between 0 and 179, inclusive. The fifth information item is the minutiae type. A value of "0" is used to represent a minutia of type "OTHER", a value of "1" for a ridge ending and a value of "2" for a ridge bifurcation. The sixth information item represents the quality of each minutia. This value shall range from 1 as a minimum to 100 as a maximum. A value of "0" indicates that no quality value is available.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	9999
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	1 <= NOM <= 9,999; positive integer
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0..1
XML Level 2	biom_1:INCITSMinutia	Cardinality	1..9999
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

9.137_1

M1 Finger Minutiae Data

Minutia Index Number [M1-378]

Mnemonic	MAN	Conditionality	M
		Status	Active
Description	This information item is the minutiae index number, which shall be initialized to "1" and incremented by "1" for each additional minutia in the fingerprint.		
Field Min	1	Occur Min	1
Field Max	4	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= MAN <= NOM; positive integer
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0..1
XML Level 2	biom_1:INCITSMinutia	Cardinality	1..9999
XML Level 3	biom_1:MinutiaIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (INCITS M1-378 Features)

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M1 Finger Minutiae Data

X Coordinate [M1-378]

Mnemonic	MXC			Conditionality	M		
				Status	Active		
Description	This information item is the 'x' coordinate of the minutiae in pixel units.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= MXC <= HLL; positive integer		
Code List							
Source	INCITS 378						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0...1	
XML Level 2	biom_1:INCITSMinutia				Cardinality	1..9999	
XML Level 3	biom_1:INCITSMinutiaLocation				Cardinality	1..1	
XML Level 4	biom_1:PositionHorizontalCoordinateValue				Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.137_3

M1 Finger Minutiae Data

Y Coordinate [M1-378]

Mnemonic	MYC			Conditionality	M		
				Status	Active		
Description	This information item is the 'y' coordinates of the minutiae in pixel units.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= MYC <= VLL; positive integer		
Code List							
Source	INCITS 378						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0...1	
XML Level 2	biom_1:INCITSMinutia				Cardinality	1..9999	
XML Level 3	biom_1:INCITSMinutiaLocation				Cardinality	1..1	
XML Level 4	biom_1:PositionVerticalCoordinateValue				Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (INCITS M1-378 Features)

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M1 Finger Minutiae Data

Minutiae Angle [M1-378]

Mnemonic	MAV		Conditionality	M	
			Status	Active	
Description	This information item is the minutiae angle recorded in units of two degrees. This value shall be nonnegative between 0 and 179.				
Field Min	1		Occur Min	1	
Field Max	3		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	0 <= MAV <= 179; positive integer	
Code List					
Source	INCITS 378				
XML Level 1	biom_1:INCITSMinutiae			Cardinality	0...1
XML Level 2	biom_1:INCITSMinutia			Cardinality	1..9999
XML Level 3	biom_1:INCITSMinutiaLocation			Cardinality	1..1
XML Level 4	biom_1:ImageLocationThetaAngleMeasure			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

9.137_5

M1 Finger Minutiae Data

Minutiae Type [M1-378]

Mnemonic	M1M		Conditionality	M	
			Status	Active	
Description	A single numeric character designating the minutiae type within the INCITS M1-378 Features for minutiae record type.				
Field Min	1		Occur Min	1	
Field Max	1		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	MTY = 0, 1 or 2	
Code List	FINGERPRINT INCITS MINUTIAE CODES				
Source	INCITS 378				
XML Level 1	biom_1:INCITSMinutiae			Cardinality	0...1
XML Level 2	biom_1:INCITSMinutia			Cardinality	1..9999
XML Level 3	biom_1:INCITSMinutiaLocation			Cardinality	1..1
XML Level 4	biom_1:INCITSMinutiaCategoryCode			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (INCITS M1-378 Features)

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M1 Finger Minutiae Data

Quality of Minutia [M1-378]

Mnemonic	QOM			Conditionality	M		
				Status	Active		
Description	This information item represents the quality of each minutia. This value shall range from 1 as a minimum to 100 as a maximum. A value of "0" indicates that no quality value is available.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= QOM <= 100; integer		
Code List							
Source	INCITS 378						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0...1	
XML Level 2	biom_1:INCITSMinutia				Cardinality	1..9999	
XML Level 3	biom_1:INCITSMinutiaLocation				Cardinality	1..1	
XML Level 4	biom_1:MinutiaQualityValue				Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.138

M1 Ridge Count Information

Mnemonic	RCI			Conditionality	D
				Status	Active
Description	This optional field shall consist of subfields of three information items. It can only appear if a value of '514' or '515' is entered in CFT of Field 9.126: M1 CBEFF information / CBI. For the first subfield: The first information item of the first subfield shall indicate the ridge count extraction method. A "0" indicates that no assumption shall be made about the method used to extract ridge counts, nor their order in the record. A "1" indicates that for each center minutiae, ridge count data was extracted to the nearest neighboring minutiae in four quadrants, and ridge counts for each center minutia are listed together. A "2" indicates that for each center minutiae, ridge count data was extracted to the nearest neighboring minutiae in eight octants, and ridge counts for each center minutia are listed together. The remaining two information items (filler 1 / FI1 and filler 2 / FI2) of this first repeating subfield shall each contain "0". Subsequent subfields have three information items each: The first information item (center minutia index / CMI) is a positive integer. The second information item (neighboring minutia index number/ NMN) is a positive integer. It shall not be equal to CMI. The third information (number of ridges crossed / NRC) is a positive integer.				
Field Min	n/a			Occur Min	0
Field Max	n/a			Occur Max	0
Char Types	1			Special Chars	n/a
Format	n/a			Constraints	n/a
Code List					
Source	INCITS 378				
XML Level 1	biom_1:INCITSMinutiae			Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeCountDetail			Cardinality	0...1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

9.138_0**M1 Ridge Count Information***Subfields: Repeating sets of information items*

Mnemonic	RCI_0			Conditionality	M↑
				Status	New-Active
Description	This optional field shall consist of subfields of three information items. It can only appear if a value of '514' or '515' is entered in CFT of Field 9.126: M1 CBEFF information / CBI. For the first subfield: The first information item of the first subfield shall indicate the ridge count extraction method. A “0” indicates that no assumption shall be made about the method used to extract ridge counts, nor their order in the record. A “1” indicates that for each center minutiae, ridge count data was extracted to the nearest neighboring minutiae in four quadrants, and ridge counts for each center minutia are listed together. A “2” indicates that for each center minutiae, ridge count data was extracted to the nearest neighboring minutiae in eight octants, and ridge counts for each center minutia are listed together. The remaining two information items (filler 1 / FI1 and filler 2 / FI2) of this first repeating subfield shall each contain “0”. Subsequent subfields have three information items each: The first information item (center minutia index / CMI) is a positive integer. The second information item (neighboring minutia index number/ NMN) is a positive integer. It shall not be equal to CMI. The third information (number of ridges crossed / NRC) is a positive integer.				
Field Min	n/a			Occur Min	0
Field Max	n/a			Occur Max	79993
Char Types	n/a			Special Chars	n/a
Format	n/a			Constraints	n/a
Code List					
Source	INCITS 379				
XML Level 1	biom_1:INCITSMinutiae			Cardinality	0..1
XML Level 2	biom_1:MinutiaeRidgeCountDetail			Cardinality	0..79993
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

9.138_1a**M1 Ridge Count Information***Ridge Count Extraction Method*

Mnemonic	REM		Conditionality	M↑	
			Status	Active	
Description	The first information item shall indicate the ridge count extraction method. A “0” indicates that no assumption shall be made about the method used to extract ridge counts, nor their order in the record. A “1” indicates that for each center minutiae, ridge count data was extracted to the nearest neighboring minutiae in four quadrants, and ridge counts for each center minutia are listed together. A “2” indicates that for each center minutiae, ridge count data was extracted to the nearest neighboring minutiae in eight octants, and ridge counts for each center minutia are listed together.				
Field Min	1		Occur Min	1	
Field Max	1		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	REM = 0, 1 or 2	
Code List	FINGERPRINT RIDGE COUNT EXTRACTION METHOD CODES				
Source	INCITS 378				
XML Level 1	biom_1:INCITSMinutiae			Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeCountDetail			Cardinality	0..79993
XML Level 3	biom_1:INCITSRidgeCountAlgorithmCode			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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M1 Ridge Count Information

Center Minutia Index Number

Mnemonic	CMI	Conditionality	M↑
		Status	Active
Description	The first information item of subsequent subfields of the Ridge Count Information field is a positive integer.		
Field Min	1	Occur Min	1
Field Max	4	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= CMI <= NOM; positive integer
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeCountDetail	Cardinality	0..79993
XML Level 3	biom_1:MinutiaeRidgeCountItem	Cardinality	1...*
XML Level 4	biom_1:MinutiaIdentification/nc:identificationID	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.138_2a

M1 Ridge Count Information

Filler 1

Mnemonic	FI1	Conditionality	M↑
		Status	Active
Description	The remaining two information items (filler 1 / FI1 and filler 2 / FI2) of this first repeating subfield shall each contain "0".		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types		Special Chars	
Format	n/a	Constraints	
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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M1 Ridge Count Information

Neighboring Minutia Index Number

Mnemonic	NMN		Conditionality	M↑	
			Status	Active	
Description	The second information item of subsequent subfield of the Ridge Count Information field is a positive integer. It shall not be equal to CMI.				
Field Min	1		Occur Min	1	
Field Max	4		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	1 <= NMN <= NOM; positive integer	
Code List					
Source	INCITS 378				
XML Level 1	biom_1:INCITSMinutiae			Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeCountDetail			Cardinality	0..79993
XML Level 3	biom_1:MinutiaeRidgeCountItem			Cardinality	1...*
XML Level 4	biom_1:MinutiaReferenceIdentification/nc:IdentificationID			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

9.138_3a

M1 Ridge Count Information

Filler 2

Mnemonic	FI2		Conditionality	M↑	
			Status	Active	
Description	The remaining two information items (filler 1 / FI1 and filler 2 / FI2) of this first repeating subfield shall each contain "0".				
Field Min	1		Occur Min	1	
Field Max	1		Occur Max	1	
Char Types			Special Chars		
Format	n/a		Constraints		
Code List					
Source	INCITS 378				
XML Level 1	biom_1:INCITSMinutiae			Cardinality	
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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M1 Ridge Count Information

Number of Ridges Crossed

Mnemonic	NRC			Conditionality	M↑		
				Status	Active		
Description	The third information item of subsequent subfield of the Ridge Count Information field is a positive integer.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= NRC <= 99; positive integer		
Code List							
Source	INCITS 378						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeRidgeCountDetail				Cardinality	0..79993	
XML Level 3	biom_1:MinutiaeRidgeCountItem				Cardinality	1... *	
XML Level 4	biom_1:RidgeCountValue				Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.139

M1 Core Information

Mnemonic	CIN		Conditionality	D	
			Status	Active	
Description	This optional field shall consist of one subfield for each core present in the original image. It can only appear if a value of '514' or '515' is entered in CFT (Field 9.126_2). Each subfield consists of three information items. The first item ('x' coordinate / XCC) is an integer in pixel units. The second item ('y' coordinate / YCC) is an integer in pixel units. The third information item (angle of the core / ANGc) is recorded in units of two degrees. The value shall be between 0 and 179, inclusive.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	INCITS 378				
XML Level 1	biom_1:INCITSMinutiae			Cardinality	0...1
XML Level 2	biom_1:FingerprintPatternCoreLocation			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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M1 Core Information

Subfields: Repeating sets of information items

Mnemonic	CIN_0			Conditionality	M↑		
				Status	New-Active		
Description	This optional field shall consist of one subfield for each core present in the original image. It can only appear if a value of '514' or '515' is entered in CFT (Field 9.126_2). Each subfield consists of three information items. The first item ('x' coordinate / XCC) is an integer in pixel units. The second item ('y' coordinate / YCC) is an integer in pixel units. The third information item (angle of the core / ANG) is recorded in units of two degrees. The value shall be between 0 and 179, inclusive.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	10		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	INCITS 379						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FingerprintPatternCoreLocation				Cardinality	0..10	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.139_1

M1 Core Information

X Coordinate [M1 Core]

Mnemonic	XCC			Conditionality	M↑		
				Status	Active		
Description	The first item ('x' coordinate / XCC) is an integer in pixel units.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= XCC <= HLL		
Code List							
Source	INCITS 378						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FingerprintPatternCoreLocation				Cardinality	0..10	
XML Level 3	biom_1:PositionHorizontalCoordinateValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.139_2

M1 Core Information

Y Coordinate [M1 Core]

Mnemonic	YCC	Conditionality	M↑
		Status	Active
Description	The second item ('y' coordinate / YCC) is an integer in pixel units.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= YCC <= VLL
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom_1:FingerprintPatternCoreLocation	Cardinality	0..10
XML Level 3	biom_1:PositionVerticalCoordinateValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

9.139_3

M1 Core Information

Angle of the Core

Mnemonic	ANGC	Conditionality	M↑
		Status	Active
Description	The third information item (angle of the core / ANGC) is recorded in units of two degrees. The value shall be between 0 and 179, inclusive.		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= ANGC <= 179
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom_1:FingerprintPatternCoreLocation	Cardinality	0..10
XML Level 3	biom_1:ImageLocationThetaAngleMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.14

M1 Delta Information

Mnemonic	DIN	Conditionality	D
		Status	Active
Description	This optional field shall consist of one subfield for each delta present in the original image. It can only appear if a value of '514' or '515' is entered in CFT (Field 9.126). Each repeating subfield consists of three information items. The first item ('x' coordinate / XCD) is an integer in pixel units. The second item ('y' coordinate / YCD) is an integer in pixel units. The third information item (first angle of the delta / ANG1) is recorded in units of two degrees. The value shall be between 0 and 179, inclusive. This is the angle closest to 90 degrees. (i.e., pointing upwards)		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	INCITS 378		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom_1:FingerprintPatternDeltaLocation	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.140_0

M1 Delta Information

Subfields: Repeating sets of information items

Mnemonic	DIN_0	Conditionality	M↑
		Status	New - Active
Description	This optional field shall consist of one subfield for each delta present in the original image. It can only appear if a value of '514' or '515' is entered in CFT (Field 9.126). Each repeating subfield consists of three information items. The first item ('x' coordinate / XCD) is an integer in pixel units. The second item ('y' coordinate / YCD) is an integer in pixel units. The third information item (first angle of the delta / ANG1) is recorded in units of two degrees. The value shall be between 0 and 179, inclusive. This is the angle closest to 90 degrees. (i.e., pointing upwards)		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	10
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	INCITS 379		
XML Level 1	biom_1:INCITSMinutiae	Cardinality	0...1
XML Level 2	biom_1:FingerprintPatternDeltaLocation	Cardinality	0..10
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.140_1

M1 Delta Information

X Coordinate [M1 Delta]

Mnemonic	XCD			Conditionality	M↑		
				Status	Active		
Description	The first item ('x' coordinate / XCD) is an integer in pixel units.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= XCD <= HLL; positive integer		
Code List							
Source	INCITS 378						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FingerprintPatternDeltaLocation				Cardinality	0..10	
XML Level 3	biom_1:PositionHorizontalCoordinateValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.140_2

M1 Delta Information

Y Coordinate [M1 Delta]

Mnemonic	YCD			Conditionality	M↑		
				Status	Active		
Description	The second item ('y' coordinate / YCD) is an integer in pixel units.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= YCD <= VLL; positive integer		
Code List							
Source	INCITS 378						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FingerprintPatternDeltaLocation				Cardinality	0..10	
XML Level 3	biom_1:PositionVerticalCoordinateValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (INCITS M1-378 Features)

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9.140_3

M1 Delta Information

First Angle of the Delta

Mnemonic	ANG1			Conditionality	M ↑		
				Status	Active		
Description	The third information item (first angle of the delta / ANG1) is recorded in units of two degrees. The value shall be between 0 and 179, inclusive. This is the angle closest to 90 degrees. (i.e. pointing upwards)						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	3		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= ANG1 <= 179; positive integer		
Code List							
Source	INCITS 378						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FingerprintPatternDeltaLocation				Cardinality	0..10	
XML Level 3	biom_1:ImageLocationThetaAngleMeasure				Cardinality	1..3	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.141

M1 Additional Delta Angles

Mnemonic	ADA		Conditionality	D	
			Status	Active	
Description	This optional field shall only appear if DIN (Field 9.140) is included in this record. This field was added to handle the two additional angle specifications of INCITS 378 while maintaing backward compatibility with the 2007 version of this standard (Traditional encoding). The subfields shall describe the same deltas in the same order as the subfields of Field 9.140: M1 delta information / DIN.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	INCITS 378				
XML Level 1	biom_1:INCITSMinutiae			Cardinality	0...1
XML Level 2	biom_1:FingerprintPatternDeltaLocation			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (INCITS M1-378 Features)

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9.141_0

M1 Additional Delta Angles

Subfields: Repeating sets of information items

Mnemonic	ADA_0			Conditionality	M ↑		
				Status	New-Active		
Description	This optional field shall only appear if DIN (Field 9.140) is included in this record. This field was added to handle the two additional angle specifications of INCITS 378 while maintaing backward compatibility with the 2007 version of this standard (Traditional encoding). The subfields shall describe the same deltas in the same order as the subfields of Field 9.140: M1 delta information / DIN. The first information item (second angle of the delta /ANG2) is the next angle encoded in order of appearance when moving counterclockwise. The second information item (third angle of the delta / ANG3) is the last angle encoded in order of appearance when moving counterclockwise.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	10		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	INCITS 379						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FingerprintPatternDeltaLocation				Cardinality	0..10	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.141_1

M1 Additional Delta Angles

Second Angle of the Delta

Mnemonic	ANG2			Conditionality	M↑		
				Status	Active		
Description	The first information item (second angle of the delta /ANG2) is the next angle encoded in order of appearance when moving counterclockwise.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	3		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= ANG2 <= 179; positive integer		
Code List							
Source	INCITS 378						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FingerprintPatternDeltaLocation				Cardinality	0..10	
XML Level 3	biom_1:ImageLocationThetaAngleMeasure				Cardinality	1..3	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.141_2

M1 Additional Delta Angles

Third Angle of the Delta

Mnemonic	ANG3			Conditionality	M ↑		
				Status	Active		
Description	The second information item (third angle of the delta / ANG3) is the last angle encoded in order of appearance when moving counterclockwise.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	3		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= ANG3 <= 179; positive integer		
Code List							
Source	INCITS 378						
XML Level 1	biom_1:INCITSMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FingerprintPatternDeltaLocation				Cardinality	0..10	
XML Level 3	biom_1:ImageLocationThetaAngleMeasure				Cardinality	1..3	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.3

Region of Interest

Mnemonic	ROI		Conditionality	M	
			Status	Active	
Description	The Region of Interest is defined as a rectangle and/or polygon that bounds the area of the original image containing a single friction ridge impression, and separates it from the background and any other friction ridge data present in the image. All EFS features are in relation to the Region of Interest, not to the original image; all coordinates are relative to the top left corner of the ROI. With the exception of Field 9.323: EFS center point of reference / CPR, the X and Y values for an EFS feature may not equal or exceed the width and height of the ROI. The X and Y values for CPR are the only EFS values that may be negative, or greater than the ROI width or height; however, the center point of reference must be within the bounds of the overall image itself. The ROI may be identical to the dimensions of the image. When the ROI is a polygon, the ROI rectangle is simply a bounding box around that polygon: the ROI offset is defined as the minimum of the X and Y coordinates of all ROI vertices, and the ROI width and height are defined as the range (maximum – minimum) of the X and Y coordinates of all ROI vertices. It is permissible for the ROI rectangle to be expanded slightly around the ROI polygon so that its dimensions or offset are evenly divisible by 4 or 8, as long as this does not exceed the bounds of the image itself. This mandatory field defines a rectangle (and an optional polygon) that bounds the region of the image that contains the fingerprint of interest and separates it from the background and any other fingerprints present in the image. Width and height are mandatory. The other items are optional.				
Field Min	n/a		Occur Min	1	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageRegionOfInterest			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.300_1

Region of Interest

ROI Width

Mnemonic	EWI			Conditionality	M↑		
				Status	Active		
Description	The first information item (width / EWI) is the integer width of the region of interest in units of 10 micrometers (0.01 mm)						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	1 <= EWI <=50000 ; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:FrictionRidgeImageRegionOfInterest				Cardinality	1..1	
XML Level 3	biom_1:ImageSegmentWidthMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.300_2

Region of Interest

ROI Height

Mnemonic	EHI	Conditionality	M↑
		Status	Active
Description	The second information item (height / EHI) is the height of the region of interest in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	1 <= EHI <=50000 ; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae		Cardinality 0..1
XML Level 2	biom_1:FrictionRidgeImageRegionOfInterest		Cardinality 1..1
XML Level 3	biom_1:ImageSegmentHeightMeasure		Cardinality 1..1
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.300_3

Region of Interest

ROI Horizontal Offset

Mnemonic	EHO	Conditionality	O
		Status	Active
Description	The third information item (horizontal offset / EHO) is the horizontal distance in units of 10 micrometers from the left edge of the original image to the left edge of the region of interest. This information item defaults to a value of zero if absent.		
Field Min	1	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 <= EHO <= 50000 ; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageRegionOfInterest	Cardinality	1..1
XML Level 3	biom_1:ImageSegmentHorizontalOffsetMeasure	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.300_4

Region of Interest

ROI Vertical Offset

Mnemonic	EVO	Conditionality	O
		Status	Active
Description	The fourth information item (vertical offset / EVO) is the vertical distance in units of 10 micrometers from the top edge of the original image to the top edge of the region of interest. This information item defaults to a value of zero if absent.		
Field Min	1	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 <= EVO <= 50000 ; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageRegionOfInterest	Cardinality	1..1
XML Level 3	biom_1:ImageSegmentVerticalOffsetMeasure	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.300_5

Region of Interest

ROI Polygon

Mnemonic	ROP	Conditionality	O
		Status	Active
Description	The fifth information item (ROI Polygon / ROP) contains a polygon (closed path) that further defines the friction ridge area under consideration within the ROI. The format of polygons is described in Section 7.7.12 of the ANSI/NIST-ITL. The vertices of the polygon are relative to the ROI. In Traditional encoding, the two special characters allowed are hyphen and comma. These special characters are not used in XML Encoding.		
Field Min	1186	Occur Min	3
Field Max	1188	Occur Max	99
Char Types	NS	Special Chars	Hyphen and Comma
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageRegionOfInterest	Cardinality	1..1
XML Level 3	biom_1:ImageSegmentPolygon	Cardinality	0..1
XML Level 4	biom_1:ImageSegmentVertex/biom_1:ImageLocationHorizontalCoordinateMeasure + biom_1:ImageLocationVerticalCoordinateMeasure (1...1)	Cardinality	3.99
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.301

EFS Orientation

Mnemonic	ORT	Conditionality	O
		Status	Active
Description	This optional field allows the orientation (deviation from upright) and its uncertainty to be specified. If this field is omitted, the direction shall default to 0 (upright) and uncertainty shall default to 15, indicating that the image is rotated 0±15°. If orientation cannot be determined, the uncertainty value shall be set to 180.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:FingerprintImageFingerprintOrientation	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.301_1

EFS Orientation

EFS Orientation Direction

Mnemonic	EOD			Conditionality	M↑		
				Status	Active		
Description	This information item contains the deviation of the region of interest from upright (fingertip up) in integer degrees. Positive angles are counterclockwise, negative angles are clockwise. A value of “0” indicates an upright direction. Valid values range from “-179” through “180”. The allowed special character is the negative sign.						
Field Min	1			Occur Min	1		
Field Max	4			Occur Max	1		
Char Types	NS			Special Chars	Minus Sign		
Format	n/a			Constraints	-179 <= EOD <= 180 ; integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:FingerprintImageFingerprintOrientation				Cardinality	0..1	
XML Level 3	biom_1:OrientationAngleValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.301_2

EFS Orientation

EFS Orientation Uncertainty

Mnemonic	EUC			Conditionality	O↑		
				Status	Active		
Description	This information item contains the uncertainty of the orientation direction, in non-negative integer degrees; the resulting orientation is Direction± Uncertainty°. Valid values range from “0” to “180”.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 <= EUC <= 180 ; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FingerprintImageFingerprintOrientation				Cardinality	0..1	
XML Level 3	biom_1:OrientationAngleUncertaintyValue				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.302

EFS Finger, Palm, Plantar Position

Mnemonic	FPP	Conditionality	M
		Status	Active
Description	This mandatory field shall contain one or more of the possible physical positions that correspond to the region of interest. For example, a region of interest that includes a finger's medial and proximal segment can note those as multiple data entries, with polygons to indicate the locations. For more information about this field, see Annex F F.6.1.3 Field 9.302: EFS finger - palm - plantar position / FPP instructions. This field may contain multiple subfields to designate different friction ridge generalized positions and/or finger segments; polygons are required in this case to delineate the locations of the positions. Polygons may overlap if appropriate.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeFingerLocation or biom_1:MinutiaePalmLocation or biom_1:MinutiaePlantarLocation or biom_1:MinutiaeFrictionRidgeLocation	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.302_0

EFS Finger, Palm, Plantar Position

Subfields: Repeating sets of information items

Mnemonic	FPP_0	Conditionality	M
		Status	New-Active
Description	This mandatory field shall contain one or more of the possible physical positions that correspond to the region of interest. For example, a region of interest that includes a finger's medial and proximal segment can note those as multiple data entries, with polygons to indicate the locations. For more information about this field, see Annex F F.6.1.3 Field 9.302: EFS finger - palm - plantar position / FPP instructions. This field may contain multiple subfields to designate different friction ridge generalized positions and/or finger segments; polygons are required in this case to delineate the locations of the positions. Polygons may overlap if appropriate.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	20
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeFingerLocation or biom_1:MinutiaePalmLocation or biom_1:MinutiaePlantarLocation	Cardinality	1..20
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.302_1EFS Finger, Palm, Plantar Position*Friction Ridge Generalized Position*

Mnemonic	FGP	Conditionality	M↑
		Status	Active
Description	This information item contains the code number corresponding to the known or most probable position shall be taken and entered as a one- or two-character value. The valid codes for FGP in this field are limited to 0 through 10 (inclusive), 16 through 18 (inclusive), 20 through 38 (inclusive) and 81 through 84 (inclusive).		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	See Look Up Codes
Code List	FRICTION RIDGE GENERALIZED POSITION		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeFingerLocation or biom_1:MinutiaePalmLocation or biom_1:MinutiaePlantarLocation	Cardinality	1..20
XML Level 3	biom_1:FingerPositionCode or biom_1:PalmPositionCode or biom_1:PlantarPositionCode or biom_1:FrictionRidgePositionCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.302_2EFS Finger, Palm, Plantar Position*Finger Segment*

Mnemonic	FSM	Conditionality	0
		Status	Active
Description	This information item is optional and only applies to fingerprints in which all or part of the medial or proximal segments (lower joints) are present in the image, in which case the 3-character code is used to indicate the finger segment position.		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	See Look Up Codes
Code List	PRINT POSITION DESCRIPTORS		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeFingerLocation or biom_1:MinutiaePalmLocation or biom_1:MinutiaePlantarLocation	Cardinality	1..20
XML Level 3	biom_1:SegmentLocationCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.302_3

EFS Finger, Palm, Plantar Position

Off-Center Fingerprint

Mnemonic	OCF		Conditionality	0	
			Status	Active	
Description	This information item is optional and only applies to fingerprints in which the impression does not contain the central area of the fingerprint (i.e., the core or a center point of reference), in which case the 1-character codes are used to indicate the off-center position of the fingerprint image. This information item shall be omitted if Field 9.302_1, FGP - Friction Ridge Generalized Position, indicates palm or plantar.				
Field Min	1		Occur Min	0	
Field Max	1		Occur Max	1	
Char Types	A		Special Chars	None	
Format	n/a		Constraints	See Look Up Codes	
Code List	OFF-CENTER FINGERPRINT CODES				
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0..1
XML Level 2	biom_1:MinutiaeFingerLocation or biom_1:MinutiaePalmLocation or biom_1:MinutiaePlantarLocation			Cardinality	1..20
XML Level 3	biom_1:FingerprintOffCenterCode			Cardinality	0..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

9.302_4

EFS Finger, Palm, Plantar Position

Segment Polygon

Mnemonic	SGP		Conditionality	0	
			Status	Active	
Description	This information item is optional and represents a closed path polygon that delineates the area that corresponds to the specified position/segment. In Traditional encoding, the two special characters allowed are hyphen and comma. These special characters are not used in XML Encoding.				
Field Min	1186		Occur Min	3	
Field Max	1188		Occur Max	99	
Char Types	NS		Special Chars	Minus Sign and Comma	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0..1
XML Level 2	biom_1:MinutiaeFingerLocation or biom_1:MinutiaePalmLocation or biom_1:MinutiaePlantarLocation			Cardinality	1..20
XML Level 3	biom_1:ImageSegmentPolygon			Cardinality	0..1
XML Level 4	biom_1:ImageSegmentVertex/biom_1:ImageLocationHorizontalCoordinateMeasure + biom_1:ImageLocationVerticalCoordinateMeasure(1..1)			Cardinality	3..99
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.303

EFS Finger Set Profile

Mnemonic	FSP	Conditionality	0
		Status	Active
Description	This optional numeric field is used to indicate an EFS Profile, which defines the specific set of EFS fields incorporated in a specific transaction. Profiles can be incorporated by reference into the definition of transactions: this decoupling of feature sets from transactions enables different transactions to share a common feature set, aiding in interoperability. If a given ANSI/NIST-ITL transaction is conformant with two or more profiles, the code for each profile is entered in a separate subfield.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:ExtendedFeatureSetProfileIdentification	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.303_0

EFS Finger Set Profile

Mnemonic	FSP_0	Conditionality	M↑
		Status	New-Active
Description	This optional numeric field is used to indicate an EFS Profile, which defines the specific set of EFS fields incorporated in a specific transaction. Profiles can be incorporated by reference into the definition of transactions: this decoupling of feature sets from transactions enables different transactions to share a common feature set, aiding in interoperability. If a given ANSI/NIST-ITL transaction is conformant with two or more profiles, the code for each profile is entered in a separate subfield.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	10
Char Types	N	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:ExtendedFeatureSetProfileIdentification/nc:identificationID	Cardinality	0..10
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.307

EFS Pattern Classification

Mnemonic	PAT				Conditionality	D		
					Status	Active		
Description	This optional field contains fingerprint classification information for the image. This field shall only be used for fingerprints, and shall be omitted for other friction ridge impressions. The field consists of three information items grouped together in a subfield.							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	1		
Char Types	n/a				Special Chars	n/a		
Format	n/a				Constraints	n/a		
Code List								
Source	ANSI/NIST ITL 1-2013 (Type-9)							
XML Level 1	biom_1:ExtendedFeatureSetMinutiae					Cardinality	0..1	
XML Level 2	biom_1:FingerprintPatternClassification					Cardinality	0..1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

9.307_0

EFS Pattern Classification

Subfields: Repeating sets of information items

Mnemonic	PAT_0			Conditionality	M↑		
				Status	New - Active		
Description	This optional field contains fingerprint classification information for the image. This field shall only be used for fingerprints, and shall be omitted for other friction ridge impressions. The field consists of three information items grouped together in a subfield.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	8		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FingerprintPatternClassification				Cardinality	0..8	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.307_1

EFS Pattern Classification

General Class

Mnemonic	GCF	Conditionality	M↑
		Status	Active
Description	This information item is the general set of pattern classifications (arch, whorl, left & right loop) used by most current automated systems. This is a two character value selected from the specified codes.		
Field Min	2	Occur Min	1
Field Max	2	Occur Max	1
Char Types	A	Special Chars	n/a
Format	n/a	Constraints	See Look Up Codes
Code List	FINGERPRINT CJIS PATTERN CLASSIFICATION CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:FingerprintPatternGeneralClassCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.307_2

EFS Pattern Classification

Subclass

Mnemonic	SUB	Conditionality	D
		Status	Active
Description	This information item is the detailed sub-classification of arches and whorls that may optionally be provided by a human examiner or automated system. This information item shall only be included for arches or whorls, and only if the sub-classification can be determined precisely. This is a two character value selected from the specified codes.		
Field Min	2	Occur Min	0
Field Max	2	Occur Max	1
Char Types	A	Special Chars	n/a
Format	n/a	Constraints	See Look Up Codes
Code List	FINGERPRINT CLASSIFICATION		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:FingerprintPatternSubClassCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.307_3

EFS Pattern Classification

Whorl-Delta Relationship

Mnemonic	WDR			Conditionality	D		
				Status	Active		
Description	This information item may optionally be used by a human examiner or automated system to provide the relationship between the deltas in a whorl. This information item shall only be included for whorls if the subclass is known, and only if the whorl delta relationship can be determined precisely.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	n/a		
Format	n/a			Constraints	See Look Up Codes		
Code List	WHORL-DELTA RELATIONSHIP CODES						
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FingerprintPatternWhorlDeltaRelationshipCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.308

EFS Ridge Quality Map

Mnemonic	RQM		Conditionality	O	
			Status	Active	
Description	Local friction ridge quality (as defined in the Ridge Quality Map) is an assessment of confidence in small local areas within an image. The local quality map is used to define the confidence in all other features, and therefore is key information. In addition, when the quality map indicates a high-quality region in which features are not marked, that information can be used as “negative features” or definitive absence of features, which can be used for exclusion. For every cell in a grid superimposed on the Region of Interest, this optional field notes the local ridge quality of the friction ridge detail within that cell. Local ridge quality defines clarity in terms of the ability to discern detail in a given location. The quality of each cell will be represented with a local quality value 0 through 5 representing the quality of ridge detail in that cell, as specified in Table 33. If a region of interest is defined, cells outside of the ROI polygon shall be set to a local quality value of 0 (black). This optional field is comprised of a repeating set of values. The number of subfields corresponds to the number of cells in a column of the image. Each row value is encoded as shown in Table 34. See Field 9.309: EFS ridge quality map format / RQF for the definition of the grid size and data representation.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	See Look Up Codes	
Code List	Ridge Quality Map Codes				
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeQualityMapRowText			Cardinality	0...1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.308_0

EFS Ridge Quality Map

Subfields: Repeating sets of information items

Mnemonic	RQM_0	Conditionality	M↑
		Status	New-Active
Description	Local friction ridge quality (as defined in the Ridge Quality Map) is an assessment of confidence in small local areas within an image. The local quality map is used to define the confidence in all other features, and therefore is key information. In addition, when the quality map indicates a high-quality region in which features are not marked, that information can be used as “negative features” or definitive absence of features, which can be used for exclusion. For every cell in a grid superimposed on the Region of Interest, this optional field notes the local ridge quality of the friction ridge detail within that cell. Local ridge quality defines clarity in terms of the ability to discern detail in a given location. The quality of each cell will be represented with a local quality value 0 through 5 representing the quality of ridge detail in that cell, as specified in Table 33. If a region of interest is defined, cells outside of the ROI polygon shall be set to a local quality value of 0 (black). This optional field is comprised of a repeating set of values. The number of subfields corresponds to the number of cells in a column of the image. Each row value is encoded as shown in Table 34. See Field 9.309: EFS ridge quality map format / RQF for the definition of the grid size and data representation.		
Field Min	1	Occur Min	0
Field Max	50000	Occur Max	Round Up (EHI ÷ GSZ)
Char Types	H	Special Chars	n/a
Format	n/a	Constraints	See Look Up Codes
Code List	Ridge Quality Map Codes		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeQualityMap	Cardinality	0...*
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.309

Ridge Quality Map Format

Mnemonic	RQF	Conditionality	D
		Status	Active
Description	This optional field defines the grid size or data representation format used in Field 9.308: EFS ridge quality/confidence map / RQM. Its use is mandatory if that field is present.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeQualityMap	Cardinality	0...*
XML Level 3	biom_1:MinutiaeRidgeQualityMap	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.309_1

Ridge Quality Map Format

Grid Size

Mnemonic	GSZ	Conditionality	M↑
		Status	Active
Description	This information item shall be used to define grid sizes (both the horizontal and vertical dimensions of a single cell in the grid): valid settings range from "1" (0.01 mm) through "41" (0.41 mm). The recommended grid size is 0.20mm (0.008") – note this is 4 pixels at 500 ppi, or 8 pixels at 1000 ppi.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	1 <= GSZ <= 41; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeQualityMap	Cardinality	0...*
XML Level 3	biom_1:MinutiaeRidgeQualityMapCellSizeValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.309_2

Ridge Quality Map Format

Ridge Quality Data Format

Mnemonic	RDF	Conditionality	M↑
		Status	Active
Description	This information item defines the format used in Field 9.308. For all formats: The first cell starts at the top left corner of the Region of Interest, with cells in order left to right. All of the quality values for each row are stored in one repeating subfield. The subfields are ordered from top to bottom. If the width and/or height of the Region of Interest are not evenly divisible by the Grid Size, partial cells shall be included at the right and/or bottom of the ridge flow map.		
Field Min	3	Occur Min	1
Field Max	3	Occur Max	1
Char Types	A	Special Chars	n/a
Format	n/a	Constraints	RDF = UNC or RLE; See Look Up Codes
Code List	RIDGE QUALITY DATA FORMAT CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeQualityMap	Cardinality	0...*
XML Level 3	biom_1:MinutiaeRidgeQualityMapFormatCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.31

EFS Ridge Flow Map

Mnemonic	RFM	Conditionality	0
		Status	Active
Description	This optional field contains the direction of friction ridges at sampling points throughout the region of interest. The sampling frequency is optionally defined in Field 9.311: RFF, and otherwise defaults to 0.41 mm in uncompressed format. The first sampling point in the image is the top left-most point in the region of interest. The same sampling frequency is used both horizontally and vertically. Values shall be included for all sampling points in the region of interest, even if the sampling points are at the edge of the region of interest. For each sampling point, angles shall be reported in integer degrees, with 0 degrees to the right (horizontal), increasing counterclockwise to a maximum value of 179° (since 180°=0°). Undefined angles are recorded in Field 9.311: EFS ridge flow map format / RFF. Each subfield corresponds to one row of the map in order from top to bottom. The area used for determining direction (window size) may be larger or smaller than the sampling frequency. Different window sizes may be used within a single image, at the discretion of the implementer. For example, an implementer may choose to use a uniform window size except in areas of high curvature, in which a smaller window size may be used.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	Base 64	Special Chars	n/a
Format	n/a	Constraints	See Look Up Codes
Code List	EFS RIDGE FLOW MAP CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeFlowMapRowText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

9.310_0**EFS Ridge Flow Map***Subfields: Repeating sets of information items*

Mnemonic	RFM_0	Conditionality	M↑
		Status	New - Active
Description	This optional field contains the direction of friction ridges at sampling points throughout the region of interest. The sampling frequency is optionally defined in Field 9.311: RFF, and otherwise defaults to 0.41 mm in uncompressed format. The first sampling point in the image is the top left-most point in the region of interest. The same sampling frequency is used both horizontally and vertically. Values shall be included for all sampling points in the region of interest, even if the sampling points are at the edge of the region of interest. For each sampling point, angles shall be reported in integer degrees, with 0 degrees to the right (horizontal), increasing counterclockwise to a maximum value of 179° (since 180°=0°). Undefined angles are recorded in Field 9.311: EFS ridge flow map format / RFF. Each subfield corresponds to one row of the map in order from top to bottom. The area used for determining direction (window size) may be larger or smaller than the sampling frequency. Different window sizes may be used within a single image, at the discretion of the implementer. For example, an implementer may choose to use a uniform window size except in areas of high curvature, in which a smaller window size may be used.		
Field Min	1	Occur Min	1
Field Max	100000	Occur Max	*
Char Types	Base 65	Special Chars	n/a
Format	n/a	Constraints	See Look Up Codes
Code List	EFS RIDGE FLOW MAP CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeFlowMap	Cardinality	1..*
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.311**EFS Ridge Flow Map Format**

Mnemonic	RFF	Conditionality	O
		Status	Active
Description	This optional field permits setting the sampling frequency or data representation format used in the Field 9.310: RFM to values other than the defaults. Its use is conditional on the presence of Field 9.310.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeFlowMap	Cardinality	1..*
XML Level 3	biom_1:MinutiaeRidgeFlowMap	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.311_1EFS Ridge Flow Map Format*Sampling Frequency*

Mnemonic	SFQ	Conditionality	M↑
		Status	Active
Description	This information item is set by default to 0.41 mm (0.016"). This information item may be used to define higher resolution sampling frequencies than the default: valid settings range from "1" (0.01 mm) through "41" (0.41 mm), inclusive.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	1 <= SFQ <= 41; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeFlowMap	Cardinality	1..*
XML Level 3	biom_1:MinutiaeRidgeFlowMapSamplingFrequencyValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.311_2EFS Ridge Flow Map Format*Ridge Flow Data Format*

Mnemonic	RDF	Conditionality	M↑
		Status	Active
Description	This information item defines the format used in the Ridge Flow Map field. The default is the uncompressed ("UNC") format		
Field Min	3	Occur Min	1
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	n/a
Format	n/a	Constraints	RDF = UNC or B64. See Look Up Codes
Code List	EFS RIDGE WAVELENGTH MAP DATA FORMAT CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeFlowMap	Cardinality	1..*
XML Level 3	biom_1:MinutiaeRidgeFlowMapFormatCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.312

EFS Ridge Wavelength Map

Mnemonic	RWM	Conditionality	O
		Status	Active
Description	This optional field contains the peak-to-peak distance between ridges at various sampling points throughout the region of interest. The sampling frequency is optionally defined in Field 9.313: RWF, and otherwise defaults to 0.41 mm in uncompressed format. The first sampling point in the image is the top left-most point. The same sampling frequency is used both horizontally and vertically. Values shall be included for all sampling points in the image, even if the sampling points are at the edge of the image. For each sampling point in the Region of Interest, distances between ridge peaks, measured perpendicular to ridge flow, shall be reported in 2-character decimal format using units of 10 micrometers (0.01 mm). The size of the area around the sampling point (window size) used to determine measurements is left to the discretion of the implementer, and may vary within an image. Unknown values shall be set to "XX". Valid values are therefore "01" (0.01 mm) through "99" (0.99 mm or greater). (In practice, the actual stored values are likely to be "30" to "70" in most cases (0.3 – 0.7 mm). The 2-character decimal wavelength values for each sampling point are concatenated left to right for all sampling points in a row. Each subfield corresponds to one row of the map, in order from top to bottom. The number of characters in one subfield is twice the number of sampling points in one row.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	String containng 2-digit positive integers or XX characters
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae		Cardinality 0...1
XML Level 2	biom_1:MinutiaeRidgeWavelengthMapRowText		Cardinality 0...1
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.312_0**EFS Ridge Wavelength Map***Subfields: Repeating sets of information items*

Mnemonic	RWM_0	Conditionality	M↑
		Status	New - Active
Description	This optional field contains the peak-to-peak distance between ridges at various sampling points throughout the region of interest. The sampling frequency is optionally defined in Field 9.313: RWF, and otherwise defaults to 0.41 mm in uncompressed format. The first sampling point in the image is the top left-most point. The same sampling frequency is used both horizontally and vertically. Values shall be included for all sampling points in the image, even if the sampling points are at the edge of the image. For each sampling point in the Region of Interest, distances between ridge peaks, measured perpendicular to ridge flow, shall be reported in 2-character decimal format using units of 10 micrometers (0.01 mm). The size of the area around the sampling point (window size) used to determine measurements is left to the discretion of the implementer, and may vary within an image. Unknown values shall be set to "XX". Valid values are therefore "01" (0.01 mm) through "99" (0.99 mm or greater). (In practice, the actual stored values are likely to be "30" to "70" in most cases (0.3 – 0.7 mm). The 2-character decimal wavelength values for each sampling point are concatenated left to right for all sampling points in a row. Each subfield corresponds to one row of the map, in order from top to bottom. The number of characters in one subfield is twice the number of sampling points in one row.		
Field Min	1	Occur Min	0
Field Max	100000	Occur Max	1
Char Types	AN	Special Chars	n/a
Format	n/a	Constraints	String containng 2-digit positive integers or XX characters
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeWavelengthMap	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.313**EFS Ridge Wavelength Map Format**

Mnemonic	RWF	Conditionality	O
		Status	Active
Description	This field permits setting the sampling frequency or data representation format used in Field 9.312: EFS ridge wavelength map / RWM to values other than the defaults, and is conditional on the presence of Field 9.312.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeWavelengthMap	Cardinality	0...1
XML Level 3	biom_1:MinutiaeRidgeWavelengthMap	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.313_1EFS Ridge Wavelength Map Format*Sampling Frequency*

Mnemonic	FWS	Conditionality	M↑
		Status	Active
Description	This information item is set by default to 0.41 mm (0.016"). This information item may be used to define higher resolution sampling frequencies than the default: valid settings range from "1" (0.01 mm) through "41" (0.41 mm), inclusive.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	1 <= FWS <= 41; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeWavelengthMap	Cardinality	0...1
XML Level 3	biom_1:MinutiaeRidgeWavelengthMapSamplingFrequencyValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.313_2EFS Ridge Wavelength Map Format*Data Format*

Mnemonic	FDF	Conditionality	M↑
		Status	Active
Description	This information item is optional and it defines the format used in Field 9.312. The default (and currently the only setting) is the uncompressed ("UNC") format.		
Field Min	3	Occur Min	1
Field Max	3	Occur Max	1
Char Types	A	Special Chars	n/a
Format	n/a	Constraints	FDF = UNC
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeWavelengthMap	Cardinality	0...1
XML Level 3	biom_1:MinutiaeRidgeWavelengthMapFormatCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.314

EFS Tonal Reversal

Mnemonic	TRV			Conditionality	O		
				Status	Active		
Description	Ridges in friction ridge images are generally represented as dark areas, with valleys as light areas. This field indicates whether the entire image is reversed tonally (black-for-white). If all or part of the image is reversed tonally, this 1-character optional field is set to the appropriate value from Table 36. Otherwise this field is omitted. Partial tonal inversion can occur in different ways. If definable portions of the image are negative, Field 9.357: EFS local quality issues / LQI can be used to define the specific tonally reversed areas. Note that in some cases, the tonal reversal is so mixed that only portions of individual ridges are reversed, making it impractical or impossible to define the tonally reversed areas. When this field is set, the image in the Type-13 record shall be left as it was originally received (i.e., tonally reversed): setting this field and reversing the image when saving will result in inconsistent data. When this field is set, a software user interface may display the tonally corrected image, but save the image as originally received with this field set.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	n/a		
Format	n/a			Constraints	TRV = N, P, or U; See Look Up Codes		
Code List	EFS TONAL REVERSAL CODES						
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FrictionRidgeImageTonalReversalCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.315

EFS Possible Lateral Reversal

Mnemonic	PLR		Conditionality	O
			Status	Active
Description	This field indicates if the original image is or may be laterally reversed (i.e., flipped leftright). In many cases, an examiner cannot tell the correct lateral direction of the image, such as latents on tape that has been closed on itself, or latents that transferred to the substrate/surface. If the image is or may be laterally reversed, this 1- character optional field is set to the appropriate value from Table 37 otherwise, this field is to be omitted. When this field is set to L (Image is known to be laterally reversed), the image in the associated Type-13 record shall be left as it was originally received (i.e., laterally reversed): setting this field and reversing the image when saving will result in inconsistent data. When this field is set a software user interface may display the laterally corrected image, but save the image as received with this field set. When this field is set to U (Image may be laterally reversed), it is incumbent on the recipient (software system or examiner) to search/compare the impression and features both as presented and flipped left-right.			
Field Min	1	Occur Min	0	
Field Max	1	Occur Max	1	
Char Types	A	Special Chars	n/a	
Format	n/a	Constraints	PLR = L, U; See Look Up Codes	
Code List	EFS POSSIBLE LATERAL REVERSAL CODES			
Source	ANSI/NIST ITL 1-2013 (Type-9)			
XML Level 1	biom_1:ExtendedFeatureSetMinutiae		Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageLateralReversalCode		Cardinality	0..1
XML Level 3			Cardinality	
XML Level 4			Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0 No DoD EBTS 4.0 Yes

9.316**EFS Friction Ridge Quality Metric**

Mnemonic	FQM	Conditionality	0
		Status	Active
Description	This optional field specifies one or more different metrics of friction ridge quality for the friction ridge impression corresponding to this record, as delimited by the region of interest.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:ImageQuality	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.316_0**EFS Friction Ridge Quality Metric***Subfields: Repeating sets of information items*

Mnemonic	FQM_0	Conditionality	M↑
		Status	New-Active
Description	This optional field specifies one or more different metrics of friction ridge quality for the friction ridge impression corresponding to this record, as delimited by the region of interest.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	10
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:ImageQuality	Cardinality	0..10
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.316_1

EFS Friction Ridge Quality Metric

Quality Value

Mnemonic	QVU	Conditionality	M↑
		Status	Active
Description	This information item shall contain the integer image quality score between 0 and 100 (inclusive) assigned to the image data by a quality algorithm. Higher values indicate better quality. An entry of "255" shall indicate a failed attempt to calculate a quality score. An entry of "254" shall indicate that no attempt to calculate a quality score was made.		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 <= QVU <= 100 or QVU = 254 or QVU = 255; integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:ImageQuality	Cardinality	0..10
XML Level 3	biom_1:QualityAlgorithmProductIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.316_2

EFS Friction Ridge Quality Metric

Algorithm Vendor Identification

Mnemonic	QAV	Conditionality	M↑
		Status	Active
Description	This information item shall specify the ID of the vendor of the quality algorithm used to calculate the quality score. This 4-digit hex value is assigned by IBIA and expressed as four ASCII characters. The IBIA shall maintain the Vendor Registry of CBEFF Biometric Organizations that will map the value in this field to a registered organization.		
Field Min	4	Occur Min	1
Field Max	4	Occur Max	1
Char Types	H	Special Chars	n/a
Format	n/a	Constraints	000 <= QAV <= FFFF
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:ImageQuality	Cardinality	0..10
XML Level 3	biom_1:QualityValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.316_3

EFS Friction Ridge Quality Metric

Algorithm Product Identification

Mnemonic	QAP			Conditionality	M↑		
				Status	Active		
Description	This information item shall specify a numeric product code assigned by the vendor of the quality algorithm, and indicates which of the vendor's algorithms was used in the calculation of the quality score. This field contains the ASCII representation of the integer product code and should be within the range 1 to 65535.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	1 <= QAP <= 65,535; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:ImageQuality				Cardinality	0..10	
XML Level 3	biom_1:QualityAlgorithmVendorIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.317

EFS Possible Growth or Shrinkage

Mnemonic	PGS			Conditionality	O		
				Status	Active		
Description	This optional field is only used in the unusual circumstance that the friction ridge impression is believed to have changed size or scale from potential comparisons. This provides for handling of images from deceased subjects with desiccated skin, or with swollen skin due to water exposure. This also provides for handling of overall growth of subjects between capture, such as in comparing an adult’s fingerprints with those taken as a child. In these cases the size of ridges and distances between ridges change to a greater extent than would ordinarily be assumed in comparisons; this field acts as a flag to indicate that greater than ordinary dimensional variation should be expected in performing subsequent comparisons. This field is to be omitted unless there is reason to believe that growth or shrinkage may have occurred.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeGrowthOrShrinkage				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.317_1

EFS Possible Growth or Shrinkage

Growth or Shrinkage Type

Mnemonic	TGS			Conditionality	M↑		
				Status	Active		
Description	The first information item is one character. See look up codes for valid values.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	n/a		
Format	n/a			Constraints	TGS = G, S, or B; See Look Up Codes		
Code List	EFS POSSIBLE GROWTH OR SHRINKAGE TYPE CODES						
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeGrowthOrShrinkage				Cardinality	0..1	
XML Level 3	biom_1:MinutiaeGrowthOrShrinkageCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.317_2

EFS Possible Growth or Shrinkage

Growth or Shrinkage Comment

Mnemonic	CGS			Conditionality	O↑		
				Status	Active		
Description	This information item contains optional text describing the rationale for believing that growth or shrinkage may have occurred.						
Field Min	1			Occur Min	0		
Field Max	1000			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints	none		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeGrowthOrShrinkage				Cardinality	0..1	
XML Level 3	biom_1:MinutiaeCommentText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.32

EFS Cores

Mnemonic	COR			Conditionality	D		
				Status	Active		
Description	A core is located at the focus of the innermost recurving ridge line of a ridge pattern: if the ridge is viewed as a section of a circle, the core is the center of that circle; if the ridge is viewed as an ellipse or parabola, the core is the focal point of that curve. Note that the core is not on the innermost recurving ridgeline itself. The direction of the core is away from the center of the curve. The core or cores of a fingerprint are defined for all pattern classifications other than plain arches, as shown in Table 39. Cores may be marked on tented arches if an innermost recurving ridge is present above the delta, so that each side of the recurving ridge extends to either side of the delta. Plain or central pocket loop whorls will only have one core if the innermost recurving ridge is circular, or two cores if elliptical. A circular whorl only has one core and does not have a defined direction. Accidentals may have any number of cores. If one or more cores are present and the feature set is from a fingerprint, Field 9.307: EFS pattern classification / PAT should be defined. Note that this does not mean that the classification has to be known definitively, but must at least be known to the extent of excluding plain arches. When no cores are present, this field shall not be used. For palm prints or other non-fingerprint friction ridge images, any number of core-like patterns may be defined using this field if such structures are present. Each core is defined in a separate subfield.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeCore				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.320_0

EFS Cores

Subfields: Repeating sets of information items

Mnemonic	COR_0			Conditionality	M↑		
				Status	New-Active		
Description	A core is located at the focus of the innermost recurving ridge line of a ridge pattern: if the ridge is viewed as a section of a circle, the core is the center of that circle; if the ridge is viewed as an ellipse or parabola, the core is the focal point of that curve. Note that the core is not on the innermost recurving ridgeline itself. The direction of the core is away from the center of the curve. The core or cores of a fingerprint are defined for all pattern classifications other than plain arches, as shown in Table 39. Cores may be marked on tented arches if an innermost recurving ridge is present above the delta, so that each side of the recurving ridge extends to either side of the delta. Plain or central pocket loop whorls will only have one core if the innermost recurving ridge is circular, or two cores if elliptical. A circular whorl only has one core and does not have a defined direction. Accidentals may have any number of cores. If one or more cores are present and the feature set is from a fingerprint, Field 9.307: EFS pattern classification / PAT should be defined. Note that this does not mean that the classification has to be known definitively, but must at least be known to the extent of excluding plain arches. When no cores are present, this field shall not be used. For palm prints or other non-fingerprint friction ridge images, any number of core-like patterns may be defined using this field if such structures are present. Each core is defined in a separate subfield.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeCore				Cardinality	0..*	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.320_1

EFS Cores

X Coordinate

Mnemonic	CXC			Conditionality	M↑		
				Status	Active		
Description	This information item shall be expressed in integer units of 10 micrometers (0.01mm).						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 <= CXC < EWL; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeCore				Cardinality	0..*	
XML Level 3	biom_1:ImageLocationHorizontalCoordinateMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.320_2

EFS Cores

Y Coordinate

Mnemonic	CYC	Conditionality	M↑
		Status	Active
Description	This information item shall be expressed in integer units of 10 micrometers (0.01mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 <= CYC <EHI; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeCore	Cardinality	0..*
XML Level 3	biom_1:ImageLocationVerticalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.320_3

EFS Cores

Direction

Mnemonic	CDI	Conditionality	O↑
		Status	Active
Description	This information item is optional and shall be set to the average tangent direction of the two closest ridges as measured 1.63 mm (0.064 inches) from the focal point. This is approximately the same as the direction of the directrix of the best fitting parabola. The direction shall be omitted (left empty) for circular whorls, or if the direction is unknown.		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 <= CDI <= 359; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeCore	Cardinality	0..*
XML Level 3	biom_1:MinutiaeCoreDirectionMeasure	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.320_4

EFS Cores*Radius of Position Uncertainty*

Mnemonic	RPU			Conditionality	O↑		
				Status	Active		
Description	This information item defines the radius of a circle centered at the location (X,Y) of the core; the circle is sized to include the area of other possible locations of the core, if the precise location cannot be determined (such as due to poor clarity). If the location is known precisely, the radius of position uncertainty may be omitted or set to 0. The radius of uncertainty is measured in integer units of 10 micrometers(0.01 mm), and may overlap the edge of the image.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 <= RPU <= 999; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeCore				Cardinality	0..*	
XML Level 3	biom_1:ImageLocationUncertaintyRadiusMeasure				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.320_5

EFS Cores*Direction Uncertainty*

Mnemonic	DUY			Conditionality	0↑		
				Status	Active		
Description	This information item is optional. It contains the uncertainty of the direction of the core, in non-negative integer degrees. Valid values range from “0” to “180”: a value of “0” (default) indicates a certain direction, while a value of “180” indicates an unknown orientation.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 <= DUY <= 180; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeCore				Cardinality	0..*	
XML Level 3	biom_1:MinutiaeCoreDirectionUncertaintyValue				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.321

EFS Deltas

Mnemonic	DEL	Conditionality	D
		Status	Active
Description	For fingerprints, one or more deltas are defined for all pattern classifications other than plain arches (see look up codes). For palm prints or other non-fingerprint friction ridge images, any number of delta-like patterns may be defined using this field if such structures are present. Each delta is defined in a separate subfield. When no deltas are present, this field shall not be used.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeDelta	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

9.321_0

EFS Deltas

Subfields: Repeating sets of information items

Mnemonic	DEL_0	Conditionality	M↑
		Status	New - Active
Description	For fingerprints, one or more deltas are defined for all pattern classifications other than plain arches (see look up codes). For palm prints or other non-fingerprint friction ridge images, any number of delta-like patterns may be defined using this field if such structures are present. Each delta is defined in a separate subfield. When no deltas are present, this field shall not be used.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	*
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeDelta	Cardinality	0..*
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.321_1

EFS Deltas

X Coordinate

Mnemonic	DXC			Conditionality	M↑		
				Status	Active		
Description	This information item shall be expressed in integer units of 10 micrometers (0.01mm) and is mandatory.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 <= DXC < EWI; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeDelta				Cardinality	0..*	
XML Level 3	biom_1:ImageLocationHorizontalCoordinateMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.321_2

EFS Deltas

Y Coordinate

Mnemonic	DYC			Conditionality	M↑		
				Status	Active		
Description	This information item shall be expressed in integer units of 10 micrometers (0.01mm) and is mandatory.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 <= DYC < EHI; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeDelta				Cardinality	0..*	
XML Level 3	biom_1:ImageLocationVerticalCoordinateMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.321_3

EFS Deltas

Direction Up

Mnemonic	DUP	Conditionality	O↑
		Status	Active
Description	This information item is optional and is expressed in degrees counterclockwise from the right.		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 <= DUP <= 359; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeDelta	Cardinality	0..*
XML Level 3	biom_1:MinutiaeDeltaDirectionUpMeasure	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.321_4

EFS Deltas

Direction Left

Mnemonic	DLF	Conditionality	O↑
		Status	Active
Description	This information item is optional and is expressed in degrees counterclockwise from the right.		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 <= DLF <= 359; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeDelta	Cardinality	0..*
XML Level 3	biom_1:MinutiaeDeltaDirectionLeftMeasure	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.321_5

EFS Deltas

Direction Right

Mnemonic	DRT			Conditionality	0↑	
				Status	Active	
Description	This information item is optional and is expressed in degrees counterclockwise from the right.					
Field Min	1			Occur Min	0	
Field Max	3			Occur Max	1	
Char Types	N			Special Chars	n/a	
Format	n/a			Constraints	0 <= DRT <= 359; non-negative integer	
Code List						
Source	ANSI/NIST ITL 1-2013 (Type-9)					
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1
XML Level 2	biom_1:MinutiaeDelta				Cardinality	0..*
XML Level 3	biom_1:MinutiaeDeltaDirectionRightMeasure				Cardinality	0..1
XML Level 4					Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0 Yes

9.321_6

EFS Deltas

Type

Mnemonic	DTP			Conditionality	0↑		
				Status	Active		
Description	This information item is optional and contains the type of delta, as defined in the look up codes.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	AN			Special Chars	n/a		
Format	n/a			Constraints	DTP = L, R, I00, I02..I05, I07..I10, I16, I17, C, NULL; See Look Up Codes		
Code List	EFS DELTA TYPE CODES						
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeDelta				Cardinality	0..*	
XML Level 3	biom_1:MinutiaeDeltaCategoryCode				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.321_7

EFS Deltas

Radius of Position Uncertainty

Mnemonic	RPU		Conditionality	O↑	
			Status	Active	
Description	This information item is optional and it defines the radius of a circle centered at the location (X,Y) of the delta; the circle is sized to include the area of other possible locations of the delta, if the precise location cannot be determined (e.g., poor clarity). If the location is known precisely, the radius of position uncertainty may be omitted or set to 0. The radius of uncertainty is measured in integer units of 10 micrometers (0.01 mm), and may overlap the edge of the image.				
Field Min	1		Occur Min	0	
Field Max	3		Occur Max	1	
Char Types	N		Special Chars	n/a	
Format	n/a		Constraints	0 <= RPU <= 999; non-negative integer	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0...1
XML Level 2	biom_1:MinutiaeDelta			Cardinality	0..*
XML Level 3	biom_1:ImageLocationUncertaintyRadiusMeasure			Cardinality	0..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

9.321_8

EFS Deltas

Direction Uncertainty Up

Mnemonic	DUU			Conditionality	O↑		
				Status	Active		
Description	This information item is optional and it contains the uncertainty of the delta angle up. Valid values range from “0” to “180”: a value of “0” (default) indicates a certain direction, while a value of “180” indicates an unknown orientation.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 <= DUU <= 180; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeDelta				Cardinality	0..*	
XML Level 3	biom_1:MinutiaeDeltaDirectionUpUncertaintyValue				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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EFS Deltas

Direction Uncertainty Left

Mnemonic	DUL			Conditionality	0↑		
				Status	Active		
Description	This information item is optional and it contains the uncertainty of the delta angle left. Valid values range from “0” to “180”: a value of “0” (default) indicates a certain direction, while a value of “180” indicates an unknown orientation.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 <= DUL <= 180; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeDelta				Cardinality	0..*	
XML Level 3	biom_1:MinutiaeDeltaDirectionLeftUncertaintyValue				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.321_10

EFS Deltas

Direction Uncertainty Right

Mnemonic	DUR			Conditionality	0↑		
				Status	Active		
Description	This information item is optional and it contains the uncertainty of the delta angle right. Valid values range from “0” to “180”: a value of “0” (default) indicates a certain direction, while a value of “180” indicates an unknown orientation.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 <= DUR <= 180; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeDelta				Cardinality	0..*	
XML Level 3	biom_1:MinutiaeDeltaDirectionRightUncertaintyValue				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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EFS Core-Delta Ridge Counts

Mnemonic	CDR	Conditionality	0
		Status	Active
Description	This field contains the count of intervening ridges between each core and delta. Each ridge count has a minimum and maximum value, so that a range may be noted. If the exact value is known, then that value should be put in the minimum and maximum fields. If only a minimum is known, such as when a delta is not visible, the maximum value shall be omitted. Ridge counts may be any non-negative integer. When this field is used for fingerprints, ridge counts shall be provided between each core and each delta, unless there are more than two cores or two deltas in an accidental whorl, in which case only the leftmost and rightmost of the cores and deltas need be used for ridge counts. Each subfield represents a distinct core-delta ridge count.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeCountCoreToDelta	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

9.322_0

EFS Core-Delta Ridge Counts

Subfields: Repeating sets of information items

Mnemonic	CDR_0	Conditionality	M↑
		Status	New - Active
Description	This field contains the count of intervening ridges between each core and delta. Each ridge count has a minimum and maximum value, so that a range may be noted. If the exact value is known, then that value should be put in the minimum and maximum fields. If only a minimum is known, such as when a delta is not visible, the maximum value shall be omitted. Ridge counts may be any non-negative integer. When this field is used for fingerprints, ridge counts shall be provided between each core and each delta, unless there are more than two cores or two deltas in an accidental whorl, in which case only the leftmost and rightmost of the cores and deltas need be used for ridge counts. Each subfield represents a distinct core-delta ridge count.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	*
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeCountCoreToDelta	Cardinality	0..*
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.322_1

EFS Core-Delta Ridge Counts

Core Index

Mnemonic	CIX	Conditionality	M↑
		Status	Active
Description	The first information item (core index / CIX) is the (1-based) index of the core corresponding to this count ("1" if only one core is defined). If the relevant core is not defined, this shall be set to "U" to indicate an upper core or "L" to indicate a lower core (whorls only), permitting minimum ridge counts when cores are not in the region of interest.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	AN	Special Chars	n/a
Format	n/a	Constraints	1 <= CIX <= 99; positive integer or CIX = L or U
Code List	CORE INDEX CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeCountCoreToDelta	Cardinality	0..*
XML Level 3	biom_1:MinutiaeCoreIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.322_2

EFS Core-Delta Ridge Counts

Delta Index

Mnemonic	DIX	Conditionality	M↑
		Status	Active
Description	This information item is the (1-based) index of the delta corresponding to this count ("1" if only one delta is defined). If the relevant delta is not defined, this shall be set to "L" to indicate a left delta or "R" to indicate a right delta, permitting when deltas are not in the region of interest.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	AN	Special Chars	n/a
Format	n/a	Constraints	1 <= DIX <= 99; positive integer or DIX = L or R
Code List	DELTA INDEX CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeCountCoreToDelta	Cardinality	0..*
XML Level 3	biom_1:MinutiaeDeltaIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.322_3

EFS Core-Delta Ridge Counts

Min Ridge Count

Mnemonic	MNRC	Conditionality	M↑
		Status	Active
Description	This information item contains the precise ridge count, if it is known; otherwise, it contains the minimum of the range of ridge count values.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 <= MNRC <= 99; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeCountCoreToDelta	Cardinality	0..*
XML Level 3	biom_1:RidgeCountMinimumValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.322_4

EFS Core-Delta Ridge Counts

Max Ridge Count

Mnemonic	MXRC	Conditionality	O↑
		Status	Active
Description	This information item contains the precise ridge count (if the count is known precisely), or the maximum range of ridge count values (if there is a known or estimated maximum); otherwise, it shall be omitted.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 <= MXRC <= 99; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeCountCoreToDelta	Cardinality	0..*
XML Level 3	biom_1:RidgeCountMaximumValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.323

EFS Center Point of Reference

Mnemonic	CPR	Conditionality	O
		Status	Active
Description	This field contains the location of a center point of reference of a fingerprint, which may be used to define how centered a fingerprint is, as a feature, for registration or orientation, and for quality measurements. While the core may serve some of the same purposes, a center point of reference is defined for arches and provides a single center location for complex whorls, unlike cores. The center point of reference is the sole EFS feature that can be located outside of the EFS region of interest. For example, this allows the estimated center of the finger to be marked even for an extreme side. The origin of CPR, like all other EFS features, is relative to the top left of Field 9.300: EFS region of interest / ROI. Note that this means that the X and Y values for CPR are the only EFS coordinates that may be negative, or greater than the ROI width or height. The center point of reference must be within the bounds of the overall image itself. Thus the allowed special character is the negative sign. The location of a center point of reference can be determined using different algorithms, as stored in the Method information item, in which case different center points of reference may be stored in different data entries (repeating subfield). The center point of reference is defined for fingerprints or toe prints, not for other types of friction ridge images.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageCenter	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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EFS Center Point of Reference

Subfields: Repeating sets of information items

Mnemonic	CPR_0	Conditionality	M↑
		Status	New - Active
Description	This field contains the location of a center point of reference of a fingerprint, which may be used to define how centered a fingerprint is, as a feature, for registration or orientation, and for quality measurements. While the core may serve some of the same purposes, a center point of reference is defined for arches and provides a single center location for complex whorls, unlike cores. The center point of reference is the sole EFS feature that can be located outside of the EFS region of interest. For example, this allows the estimated center of the finger to be marked even for an extreme side. The origin of CPR, like all other EFS features, is relative to the top left of Field 9.300: EFS region of interest / ROI. Note that this means that the X and Y values for CPR are the only EFS coordinates that may be negative, or greater than the ROI width or height. The center point of reference must be within the bounds of the overall image itself. Thus the allowed special character is the negative sign. The location of a center point of reference can be determined using different algorithms, as stored in the Method information item, in which case different center points of reference may be stored in different data entries (repeating subfield). The center point of reference is defined for fingerprints or toe prints, not for other types of friction ridge images.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	4
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageCenter	Cardinality	0..4
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.323_1

EFS Center Point of Reference

Method

Mnemonic	CPM	Conditionality	M↑
		Status	Active
Description	This information item is the method of determining the X, Y location. It is a one character value. See Look Up Codes for valid values.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	AN	Special Chars	n/a
Format	n/a	Constraints	CPM = L, 0, 1, or H
Code List	EFS CENTER POINT OF REFERENCE METHOD CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageCenter	Cardinality	0..4
XML Level 3	biom_1:FrictionRidgeImageCenterLocationMethodCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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EFS Center Point of Reference

X Coordinate

Mnemonic	PXC	Conditionality	M↑
		Status	Active
Description	This information item is in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	NS	Special Chars	Minus Sign
Format	n/a	Constraints	-EHO <= PXC <= 50000; integer, special character "-"
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageCenter	Cardinality	0..4
XML Level 3	biom_1:ImageLocationHorizontalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.323_3

EFS Center Point of Reference

Y Coordinate

Mnemonic	PYC	Conditionality	M↑
		Status	Active
Description	This information item is in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	NS	Special Chars	n/a
Format	n/a	Constraints	-EVO <= PYC <= 50000; integer, special character "-"
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageCenter	Cardinality	0..4
XML Level 3	biom_1:ImageLocationVerticalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.323_4EFS Center Point of Reference*Radius of Position Uncertainty*

Mnemonic	CRU			Conditionality	0↑		
				Status	Active		
Description	This information item is optional. The radius of position uncertainty is 0 (default) if the location is known precisely; otherwise the position is marked at the best estimate of position, with a radius including the area of other possible locations, in integer units of 10 micrometers (0.01 mm). The radius of uncertainty may overlap the edge of the image.The radius of uncertainty may overlap the edge of the image.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 <= CRU <= 999; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FrictionRidgeImageCenter				Cardinality	0..4	
XML Level 3	biom_1:ImageLocationUncertaintyRadiusMeasure				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.324EFS Distinctive Features

Mnemonic	DIS			Conditionality	D		
				Status	Active		
Description	This field is used to define one or more areas containing unusually discriminating features that are not fully defined using other Extended Friction Ridge features. The characteristics noted in this field are specific to the friction skin itself, as opposed to those (such as smudging) that are noted in Field 9.357: LQI. When no distinctive features are present, this field shall not be used.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeDistinctiveFeature				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.324_0

EFS Distinctive Features

Subfields: Repeating sets of information items

Mnemonic	DIS_0	Conditionality	M↑
		Status	New - Active
Description	This field is used to define one or more areas containing unusually discriminating features that are not fully defined using other Extended Friction Ridge features. The characteristics noted in this field are specific to the friction skin itself, as opposed to those (such as smudging) that are noted in Field 9.357: LQI. When no distinctive features are present, this field shall not be used.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	100
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeDistinctiveFeature	Cardinality	0..100
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.324_1

EFS Distinctive Features

Distinctive Feature Type

Mnemonic	DIT	Conditionality	M↑
		Status	Active
Description	See Look Up Codes for valid values.		
Field Min	4	Occur Min	1
Field Max	9	Occur Max	1
Char Types	A	Special Chars	n/a
Format	n/a	Constraints	See Look Up Codes
Code List	EFS DISTINCTIVE FEATURES TYPE CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeDistinctiveFeature	Cardinality	0..100
XML Level 3	biom_1:MinutiaeDistinctiveFeatureCategoryCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.324_2

EFS Distinctive Features

Distinctive Features Polygon

Mnemonic	DFP	Conditionality	O↑
		Status	Active
Description	This information item is optional. It is a closed path polygon that outlines the area of the distinctive feature. In Traditional encoding, the two special characters allowed are hyphen and comma. These special characters are not used in XML Encoding.		
Field Min	11	Occur Min	3
Field Max	1188	Occur Max	99
Char Types	NS	Special Chars	Minus Sign and Comma
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeDistinctiveFeature	Cardinality	0..100
XML Level 3	biom_1:ImageSegmentPolygon	Cardinality	0..1
XML Level 4	biom_1:ImageSegmentVertex	Cardinality	3..99
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.324_3

EFS Distinctive Features

Distinctive Features Comment

Mnemonic	DFC	Conditionality	O↑
		Status	Active
Description	This information item shall contain optional text describing the feature. It is a maximum of 1000 characters.		
Field Min	1	Occur Min	0
Field Max	1000	Occur Max	1
Char Types	U	Special Chars	none
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeDistinctiveFeature	Cardinality	0..100
XML Level 3	biom_1:MinutiaeCommentText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.325

EFS No Cores Present

Mnemonic	NCOR			Conditionality	D		
				Status	Active		
Description	This optional field is used to indicate whether the analysis process has determined that no cores could be discerned in the image. If the analysis process has determined that no cores could be discerned in the image, this field shall be set to Y; otherwise, this field will be omitted.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	none		
Format	n/a			Constraints	NCOR = Y		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeNoCoresPresentIndicator				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.326

EFS No Deltas Present

Mnemonic	NDEL			Conditionality	D		
				Status	Active		
Description	This optional field is used to indicate whether the analysis process has determined that no deltas could be discerned in the image. If the analysis process has determined that no deltas could be discerned in the image, this field shall be set to Y; otherwise, this field will be omitted.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	none		
Format	n/a			Constraints	NDEL = Y		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeNoDeltasPresentIndicator				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.327

EFS No Distinctive Features Present

Mnemonic	NDIS			Conditionality	D		
				Status	Active		
Description	This optional field is used to indicate whether the analysis process has determined that no distinctive features could be discerned in the image. If the analysis process has determined that no distinctive features could be discerned in the image, this field shall be set to Y; otherwise, this field will be omitted.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	none		
Format	n/a			Constraints	NDIS = Y		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeNoDistinctiveFeaturesPresentIndicator				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.331

EFS Minutiae

Mnemonic	MIN			Conditionality	D		
				Status	Active		
Description	The type of minutiae shall be marked if clearly identifiable as a ridge ending or bifurcation; otherwise, it shall be marked as unknown type. The location for a bifurcation shall be at the “Y” of the ridge, with the direction running down the valley. The location for a ridge ending or unknown type shall be at the “Y” of the valley, with the direction running up the ridge. If the precise location for a ridge ending cannot be ascertained, a radius of uncertainty shall be marked to include the area of possible locations. If the type is unknown, the radius of uncertainty shall be indicated. When no minutiae are present, this field shall not be used.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSMinutia				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.331_0

EFS Minutiae

Subfields: Repeating sets of information items

Mnemonic	MIN_0	Conditionality	M↑
		Status	New - Active
Description	The type of minutiae shall be marked if clearly identifiable as a ridge ending or bifurcation; otherwise, it shall be marked as unknown type. The location for a bifurcation shall be at the "Y" of the ridge, with the direction running down the valley. The location for a ridge ending or unknown type shall be at the "Y" of the valley, with the direction running up the ridge. If the precise location for a ridge ending cannot be ascertained, a radius of uncertainty shall be marked to include the area of possible locations. If the type is unknown, the radius of uncertainty shall be indicated. When no minutiae are present, this field shall not be used.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1000
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:EFSSMinutia	Cardinality	0..1000
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

9.331_1

EFS Minutiae

X Coordinate

Mnemonic	MXC	Conditionality	M↑
		Status	Active
Description	This information item is in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= MXC < EWI; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:EFSSMinutia	Cardinality	0..1000
XML Level 3	biom_1:ImageLocationHorizontalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.331_2

EFS Minutiae

Y Coordinate

Mnemonic	MYC			Conditionality	M↑		
				Status	Active		
Description	This information item is in units of 10 micrometers (0.01 mm).						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	0 <= MYC < EHI; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSMinutia				Cardinality	0..1000	
XML Level 3	biom_1:ImageLocationVerticalCoordinateMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.331_3

EFS Minutiae

Theta Degrees

Mnemonic	MTD			Conditionality	M↑		
				Status	Active		
Description	This information item is expressed in degrees in the range 0 to 359. If MDU is set to 180, MTD is undefined and should not be displayed to the user.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	0 <= MTD <= 359; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSMinutia				Cardinality	0..1000	
XML Level 3	biom_1:ImageLocationThetaAngleMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.331_4

EFS Minutiae

Minutiae Type

Mnemonic	MTY			Conditionality	M↑		
				Status	Active		
Description	See Look Up Codes for valid values.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	none		
Format	n/a			Constraints	MTY = E, B, or X		
Code List	EFS MINUTIAE TYPE CODES						
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSMinutia				Cardinality	0..1000	
XML Level 3	biom_1:EFSMinutiaCategoryCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.331_5

EFS Minutiae

Radius of Posiiton Uncertainty

Mnemonic	MRU			Conditionality	0↑		
				Status	Active		
Description	This information item defines the radius of a circle centered at the location (X,Y) of the minutia.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	0 <= MDU <= 999; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSMinutia				Cardinality	0..1000	
XML Level 3	biom_1:ImageLocationUncertaintyRadiusMeasure				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.331_6

EFS Minutiae

Minutia Direction of Uncertainty

Mnemonic	MDU			Conditionality	O↑		
				Status	Active		
Description	This information item contains an integer from “0” (default) to “180” indicating the precision in the direction (theta) of the minutia, measured in degrees. The resulting direction is Theta±Uncertainty°. If MDU is set to 180, MTD is undefined and should not be displayed to the user.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	0 <= MDU <= 180; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSMinutia				Cardinality	0..1000	
XML Level 3	biom_1:MinutiaDirectionUncertaintyValue				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.332

EFS Minutiae Ridge Count Algorithm

Mnemonic	MRA			Conditionality	D		
				Status	Active		
Description	This optional field defines the algorithm used in determining how neighboring minutiae are selected for use in the ridge counts in Field 9.333: MRC. See Look Up Codes for valid values.						
Field Min	5			Occur Min	0		
Field Max	8			Occur Max	1		
Char Types	AN			Special Chars	none		
Format	n/a			Constraints	MRA = OCTANT, EFTS7, or QUADRANT		
Code List	EFS MINUTIAE RIDGE COUNT ALGORITHM CODES						
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSRidgeCountAlgorithmCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.333

EFS Minutiae Ridge Counts

Mnemonic	MRC			Conditionality	D	
				Status	Active	
Description	This field contains the counts of intervening ridges between specified minutiae. Field 9.332: MRA governs how the minutiae are selected for ridge counts, and the details of how the ridges are counted. Each ridge count is represented in a separate subfield Field 9.335: RCC may be used to indicate ridge count confidence between minutiae. If Field 9.372: SIM is used, ridge counts can be derived from that field rather than included explicitly.					
Field Min	n/a			Occur Min	0	
Field Max	n/a			Occur Max	1	
Char Types	n/a			Special Chars	n/a	
Format	n/a			Constraints	n/a	
Code List						
Source	ANSI/NIST ITL 1-2013 (Type-9)					
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1
XML Level 2	biom_1:EFSRidgeCountItem				Cardinality	0..1
XML Level 3					Cardinality	
XML Level 4					Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0
						Yes

9.333_0

EFS Minutiae Ridge Counts

Subfields: Repeating sets of information items

Mnemonic	MRC_0		Conditionality	M↑	
			Status	New - Active	
Description	This field contains the counts of intervening ridges between specified minutiae. Field 9.332: MRA governs how the minutiae are selected for ridge counts, and the details of how the ridges are counted. Each ridge count is represented in a separate subfield Field 9.335: RCC may be used to indicate ridge count confidence between minutiae. If Field 9.372: SIM is used, ridge counts can be derived from that field rather than included explicitly.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	*	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0..1
XML Level 2	biom_1:EFSRidgeCountItem			Cardinality	0..*
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.333_1

EFS Minutiae Ridge Counts

Minutiae Index A

Mnemonic	MIA	Conditionality	M↑
		Status	Active
Description	This information item contains the (1-based) index of the first minutia.		
Field Min	1	Occur Min	1
Field Max	4	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	1 <= MIA <= 9999; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:EFSRidgeCountItem	Cardinality	0..*
XML Level 3	biom_1:MinutiaIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.333_2

EFS Minutiae Ridge Counts

Minutiae Index B

Mnemonic	MIB	Conditionality	M↑
		Status	Active
Description	This information item contains the (1-based) index of the second minutia.		
Field Min	1	Occur Min	1
Field Max	4	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	1 <= MIB <= 9999; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:EFSRidgeCountItem	Cardinality	0..*
XML Level 3	biom_1:MinutiaReferenceIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.333_3

EFS Minutiae Ridge Counts

Ridge Count

Mnemonic	MIR	Conditionality	M↑
		Status	Active
Description	This information item contains the number of intervening ridges between minutiae A and B. Unknown ridge counts shall be omitted (left empty). The Field 9.332: MRA governs other details or special cases (if any).		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= MIRB <= 99; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:EFSRidgeCountItem	Cardinality	0..*
XML Level 3	biom_1:RidgeCountValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.333_4

EFS Minutiae Ridge Counts

Reference Number

Mnemonic	MRN	Conditionality	O↑
		Status	Active
Description	This information item is optional and, if used, contains a reference number specific to the ridge count algorithm. For the OCTANT and EFTS7 ridge count algorithms, this information item specifies the octant. For the QUADRANT ridge count algorithm, this information item specifies the quadrant.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= MRN <= 7; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:EFSRidgeCountItem	Cardinality	0..*
XML Level 3	biom_1:MinutiaeRidgeCountOctantNumeric	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.333_5

EFS Minutiae Ridge Counts

Residual

Mnemonic	MRS			Conditionality	0↑		
				Status	Active		
Description	This information item is optional and is specific to the OCTANT and EFTS7 ridge count algorithms, specifying the half of the octant in which the neighboring minutia lies. The residual is 0 if the neighboring minutia lies in the clockwise half of the octant, or 1 if the minutia lies in the counterclockwise half of the octant.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	MRS = 0 or 1; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSRidgeCountItem				Cardinality	0..*	
XML Level 3	biom_1:MinutiaeRidgeCountResidualCode				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.334

EFS No Minutiae Present

Mnemonic	NMIN			Conditionality	D		
				Status	Active		
Description	This optional field indicates whether the analysis determined that no minutiae could be discerned in the image. If the analysis process has determined that no minutiae could be discerned in the image, this field shall be set to Y; otherwise, this field will be omitted.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	none		
Format	n/a			Constraints	NMIN = Y		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeNoMinutiaePresentIndicator				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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9.335

EFS Ridge Count Confidence

Mnemonic	RCC			Conditionality	D		
				Status	Active		
Description	This field is optional if Field 9.333: EFS minutiae ridge counts / MRC appears in the record and should not otherwise be included. It is used to indicate confidence in intervening ridge counts between any two points. Each ridge count confidence value is represented in a separate data entry (repeating subfield). While primarily used to indicate ridge count confidence between minutiae, this confidence measure may also apply to other features such as Core/Delta ridge counts. If this field is not used, the default assumption is that the ridge counts were manually determined. This field provides a means to state when only a portion of ridge counts have been manually checked.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeRidgeCountConfidence				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.335_0

EFS Ridge Count Confidence

Subfields: Repeating sets of information items

Mnemonic	RCC_0			Conditionality	M↑		
				Status	New - Active		
Description	This field is optional if Field 9.333: EFS minutiae ridge counts / MRC appears in the record and should not otherwise be included. It is used to indicate confidence in intervening ridge counts between any two points. Each ridge count confidence value is represented in a separate data entry (repeating subfield). While primarily used to indicate ridge count confidence between minutiae, this confidence measure may also apply to other features such as Core/Delta ridge counts. If this field is not used, the default assumption is that the ridge counts were manually determined. This field provides a means to state when only a portion of ridge counts have been manually checked.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	7993		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeRidgeCountConfidence				Cardinality	0..7993	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.335_1

EFS Ridge Count Confidence

X Coordinate Point A

Mnemonic	ACX			Conditionality	M↑		
				Status	Active		
Description	This information item contains the x coordinates for Point A, in units of 10 micrometers (0.01 mm).						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	0 <= ACX < EWI; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeRidgeCountConfidence				Cardinality	0..7993	
XML Level 3	biom_1:MinutiaLocationPoint				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.335_2

EFS Ridge Count Confidence

Y Coordinate Point A

Mnemonic	ACY		Conditionality	M↑	
			Status	Active	
Description	This information item contains the y coordinates for Point A, in units of 10 micrometers (0.01 mm).				
Field Min	1		Occur Min	1	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	none	
Format	n/a		Constraints	0 <= ACY < EHI; non-negative integer	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0..1
XML Level 2	biom_1:MinutiaeRidgeCountConfidence			Cardinality	0..7993
XML Level 3	biom_1:MinutiaLocationPoint			Cardinality	1..1
XML Level 4	biom_1:ImageLocationVerticalCoordinateMeasure			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.335_3

EFS Ridge Count Confidence

X Coordinate Point B

Mnemonic	BCX		Conditionality	M↑	
			Status	Active	
Description	This information item contains the x coordinates for Point B, in units of 10 micrometers (0.01 mm).				
Field Min	1		Occur Min	1	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	none	
Format	n/a		Constraints	0 <= BCX < EWI; non-negative integer	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0..1
XML Level 2	biom_1:MinutiaeRidgeCountConfidence			Cardinality	0..7993
XML Level 3	biom_1:MinutiaLocationPoint			Cardinality	1..1
XML Level 4	biom_1:ImageLocationHorizontalCoordinateMeasure			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

9.335_4

EFS Ridge Count Confidence

Y Coordinate Point B

Mnemonic	BCY		Conditionality	M↑	
			Status	Active	
Description	This information item contains the y coordinates for Point B, in units of 10 micrometers (0.01 mm).				
Field Min	1		Occur Min	1	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	none	
Format	n/a		Constraints	0 <= BCY < EHI; non-negative integer	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0..1
XML Level 2	biom_1:MinutiaeRidgeCountConfidence			Cardinality	0..7993
XML Level 3	biom_1:MinutiaLocationPoint			Cardinality	1..1
XML Level 4	biom_1:ImageLocationVerticalCoordinateMeasure			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.335_5

EFS Ridge Count Confidence

Method of Ridge Counting

Mnemonic	MORC	Conditionality	M↑
		Status	Active
Description	This information item states the method by which ridge counts were determined and / or validated.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	A	Special Chars	none
Format	n/a	Constraints	MORC = A, T, or M
Code List	EFS METHOD OF RIDGE COUNTING CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeCountConfidence	Cardinality	0..7993
XML Level 3	biom_1:MinutiaLocationPoint	Cardinality	1..1
XML Level 4	biom_1:MinutiaeRidgeCountMethodCode	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.335_6

EFS Ridge Count Confidence

Confidence Value

Mnemonic	MCV	Conditionality	M↑
		Status	Active
Description	This information item contains the integer confidence value for a ridge count from 0 to 99, with 0 indicating no confidence.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= MCV <= 99; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeCountConfidence	Cardinality	0..7993
XML Level 3	biom_1:MinutiaLocationPoint	Cardinality	1..1
XML Level 4	biom_1:MinutiaeRidgeCountConfidenceValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.34

EFS Dots

Mnemonic	DOT		Conditionality	D	
			Status	Active	
Description	A dot is a single or partial ridge unit that is shorter than local ridge width. Longer ridge units are considered standard ridges and should be marked as such, with two ridge endings. Potential dots that are substantially thinner than local ridge width should be marked as incipient ridges. A dot is marked by its center point. Elongated dots may optionally have their length marked along the longest dimension. When no dots are present, this field shall not be used. This field consists of a repeating subfield (one for each dot).				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0..1
XML Level 2	biom_1:MinutiaeDot			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

9.340_0

EFS Dots

Subfields: Repeating sets of information items

Mnemonic	DOT_0		Conditionality	M↑	
			Status	New - Active	
Description	A dot is a single or partial ridge unit that is shorter than local ridge width. Longer ridge units are considered standard ridges and should be marked as such, with two ridge endings. Potential dots that are substantially thinner than local ridge width should be marked as incipient ridges. A dot is marked by its center point. Elongated dots may optionally have their length marked along the longest dimension. When no dots are present, this field shall not be used. This field consists of a repeating subfield (one for each dot).				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1000	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0...1
XML Level 2	biom_1:MinutiaeDot			Cardinality	0..1000
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.340_1

EFS Dots

Dot X Coordinate

Mnemonic	DOX	Conditionality	M↑
		Status	Active
Description	This information item is the x coordinate of the center of the dot, expressed in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= DOX < EWI; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeDot	Cardinality	0..1000
XML Level 3	biom_1:ImageLocationHorizontalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.340_2

EFS Dots

Dot Y Coordinate

Mnemonic	DOY	Conditionality	M↑
		Status	Active
Description	This information item is the y coordinate of the center of the dot, expressed in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= DOY < EHI; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeDot	Cardinality	0..1000
XML Level 3	biom_1:ImageLocationVerticalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.340_3

EFS Dots

Dot Length

Mnemonic	DOL			Conditionality	O↑		
				Status	Active		
Description	This information item is an optional information item containing the length of the dot along its longest dimension in integer units of 10 micrometers.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	1 <= DOL <= 99; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeDot				Cardinality	0..1000	
XML Level 3	biom_1:MinutiaeDotLengthMeasure				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.341

EFS Incipient Ridges

Mnemonic	INR		Conditionality	D	
			Status	Active	
Description	An incipient ridge is a thin ridge, substantially thinner than local ridge width. An incipient is marked as one or more line segments, each defined with the (X, Y) endpoints along its longest dimension. An incipient ridge is marked with a line segment along its longest dimension. If the incipient is composed of a series of segments: Mark the incipient ridge as a single line when the segments of the incipient are close together or the separations between segments are indistinct. Mark the incipient ridge segments individually when they are clearly separate, with distinct lines drawn for each one. Mark the incipient ridge as a series of adjoining, unbroken line segments when it curves. When no incipient ridges are present, this field shall not be used.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0...1
XML Level 2	biom_1:MinutiaeIncipientRidge			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.341_0

EFS Incipient Ridges

Subfields: Repeating sets of information items

Mnemonic	INR_0			Conditionality	M↑		
				Status	New - Active		
Description	An incipient ridge is a thin ridge, substantially thinner than local ridge width. An incipient is marked as one or more line segments, each defined with the (X, Y) endpoints along its longest dimension. An incipient ridge is marked with a line segment along its longest dimension. If the incipient is composed of a series of segments: Mark the incipient ridge as a single line when the segments of the incipient are close together or the separations between segments are indistinct. Mark the incipient ridge segments individually when they are clearly separate, with distinct lines drawn for each one. Mark the incipient ridge as a series of adjoining, unbroken line segments when it curves. When no incipient ridges are present, this field shall not be used.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1000		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeIncipientRidge				Cardinality	0..1000	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.341_1

EFS Incipient Ridges

X Coordinate Point 1

Mnemonic	X1C			Conditionality	M↑		
				Status	Active		
Description	This information item contains the ‘x’ coordinate of one endpoint, in units of 10 micrometers (0.01 mm).						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	0 <= X1C < EWL; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeIncipientRidge				Cardinality	0..1000	
XML Level 3	biom_1:ImageLocationHorizontalCoordinateMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.341_2

EFS Incipient Ridges

Y Coordinate Point 1

Mnemonic	Y1C	Conditionality	M↑
		Status	Active
Description	This information item contains the 'y' coordinate of one endpoint, in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= Y1C < EHI; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeIncipientRidge	Cardinality	0..1000
XML Level 3	biom_1:ImageLocationVerticalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.341_3

EFS Incipient Ridges

X Coordinate Point 2

Mnemonic	X2C	Conditionality	M↑
		Status	Active
Description	This information item contains the 'x' coordinate of the other endpoint, in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= X2C < EWI; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeIncipientRidge	Cardinality	0..1000
XML Level 3	biom_1:ImageLocationHorizontalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.341_4

EFS Incipient Ridges

Y Coordinate Point 2

Mnemonic	Y2C	Conditionality	M↑
		Status	Active
Description	This information item contains the 'y' coordinate of the other endpoint, in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 ≤ Y2C < EHI; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeIncipientRidge	Cardinality	0..1000
XML Level 3	biom_1:ImageLocationVerticalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.342

EFS Creases and Linear Discontinuities

Mnemonic	CLD	Conditionality	D
		Status	Active
Description	This optional field defines the permanent flexion creases, as well as linear discontinuities (minor creases, cracks, cuts, and thin or non-permanent scars). If a continuous discontinuity curves, it should be marked as a series of adjoining line segments. If a crease is feathered or composed of a series of crisscross creases, each of the short creases shall be marked separately. When no creases or linear discontinuities are present, this field shall not be used.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeFlexionCrease	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.342_0

EFS Creases and Linear Discontinuities

Subfields: Repeating sets of information items

Mnemonic	CLD_0	Conditionality	M↑
		Status	New - Active
Description	This optional field defines the permanent flexion creases, as well as linear discontinuities (minor creases, cracks, cuts, and thin or non-permanent scars). If a continuous discontinuity curves, it should be marked as a series of adjoining line segments. If a crease is feathered or composed of a series of crisscross creases, each of the short creases shall be marked separately. When no creases or linear discontinuities are present, this field shall not be used.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1000
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaLocationPoint	Cardinality	0..1000
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.342_1

EFS Creases and Linear Discontinuities

X Coordinate Point 1

Mnemonic	X1D	Conditionality	M↑
		Status	Active
Description	This information item shall contain the 'x' coordinate of one endpoint, in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= X1D < EWI; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaLocationPoint	Cardinality	0..1000
XML Level 3	biom_1:ImageLocationHorizontalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.342_2

EFS Creases and Linear Discontinuities

Y Coordinate Point 1

Mnemonic	Y1D	Conditionality	M↑
		Status	Active
Description	This information item shall contain the 'y' coordinate of one endpoint, in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= Y1D < EHI; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaLocationPoint	Cardinality	0..1000
XML Level 3	biom_1:ImageLocationVerticalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.342_3

EFS Creases and Linear Discontinuities

X Coordinate Point 2

Mnemonic	X2D	Conditionality	M↑
		Status	Active
Description	This information item shall contain the 'x' coordinate of the other endpoint, in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= X2D < EWI; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaLocationPoint	Cardinality	0..1000
XML Level 3	biom_1:ImageLocationHorizontalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.342_4

EFS Creases and Linear Discontinuities

Y Coordinate Point 2

Mnemonic	Y2D	Conditionality	M↑
		Status	Active
Description	This information item shall contain the 'y' coordinate of the other endpoint, in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= Y2D < EHI; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaLocationPoint	Cardinality	0..1000
XML Level 3	biom_1:ImageLocationVerticalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.342_5

EFS Creases and Linear Discontinuities

Type

Mnemonic	TPD	Conditionality	M↑
		Status	Active
Description	This information item indicates the type of crease or linear discontinuity. See Look Up Codes for valid values. If Field 9.302: FPP indicates a palm (has a value 20 through 38 (inclusive) or 81 through 84 (inclusive)), then TPD may be set to RLC, PTC, DT. If Field 9.302: FPP indicates a finger or a palm that includes fingers (has a value 0 through 10 (inclusive) or 16, 17, 21, 23, 26, 28), then TPD may be set to DIP, PIP or PDC.		
Field Min	2	Occur Min	1
Field Max	5	Occur Max	1
Char Types	AN	Special Chars	none
Format	n/a	Constraints	TPD = DIP, PIP, PDC00-PDC10, PDC16-17, RLC, PTC, DTC, WC
Code List	EFS CREASE TYPE CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaLocationPoint	Cardinality	0..1000
XML Level 3	biom_1:MinutiaeFlexionCreaseCategoryCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.343

EFS Ridge Edge Features

Mnemonic	REF			Conditionality	D		
				Status	Active		
Description	Ridge edge features include Protrusions (abrupt increases in ridge width), Indentations (abrupt decreases in ridge width), and Discontinuities (points where a ridge stops briefly). When no ridge edges are present, this field shall not be used. Each ridge edge feature is represented as a separate subfield.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeRidgeEdgeOrDiscontinuity				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.343_0

EFS Ridge Edge Features

Subfields: Repeating sets of information items

Mnemonic	REF_0			Conditionality	M↑		
				Status	New - Active		
Description	Ridge edge features include Protrusions (abrupt increases in ridge width), Indentations (abrupt decreases in ridge width), and Discontinuities (points where a ridge stops briefly). When no ridge edges are present, this field shall not be used. Each ridge edge feature is represented as a separate subfield.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1000		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeRidgeEdgeOrDiscontinuity				Cardinality	0..1000	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.343_1

EFS Ridge Edge Features

X Coordinate

Mnemonic	CLX	Conditionality	M↑
		Status	Active
Description	This information item contains the 'x' coordinate of the center of the feature, in units of 10 micrometers (10 μm = 0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= CLX < EWL; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeEdgeOrDiscontinuity	Cardinality	0..1000
XML Level 3	biom_1:ImageLocationHorizontalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.343_2

EFS Ridge Edge Features

Y Coordinate

Mnemonic	CLY	Conditionality	M↑
		Status	Active
Description	This information item contains the 'y' coordinate of the center of the feature, in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= CLY < EHI; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeRidgeEdgeOrDiscontinuity	Cardinality	0..1000
XML Level 3	biom_1:ImageLocationVerticalCoordinateMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.343_3

EFS Ridge Edge Features

Type

Mnemonic	CLT			Conditionality	M↑		
				Status	Active		
Description	This information item states the type of feature: P (Protrusion), I (Indentation), or D (Discontinuity).						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	none		
Format	n/a			Constraints	CLT = P, I, or D		
Code List	EFS RIDGE EDGE FEATURES TYPE CODES						
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeRidgeEdgeOrDiscontinuity				Cardinality	0..1000	
XML Level 3	biom_1:MinutiaeRidgeEdgeOrDiscontinuityCategoryCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.344

EFS No Pores Present

Mnemonic	NPOR		Conditionality	D	
			Status	Active	
Description	This optional field is used to indicate whether the analysis process has determined that no pores could be discerned in the image. If the analysis process has determined that no pores could be discerned in the image, this field shall be set to Y; otherwise, this field will be omitted.				
Field Min	1		Occur Min	0	
Field Max	1		Occur Max	1	
Char Types	A		Special Chars	none	
Format	n/a		Constraints	NPOR = Y	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0..1
XML Level 2	biom_1:MinutiaeNoPoresPresentIndicator			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.345

EFS Pores

Mnemonic	POR				Conditionality	0	
					Status	Active	
Description	Each pore is marked by its center point. When no pores are present, this field shall not be used. Each pore is represented as a separate repeating subfield.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars	n/a	
Format	n/a				Constraints	n/a	
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae					Cardinality	0...1
XML Level 2	biom_1:MinutiaePore					Cardinality	0..1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.345_0

EFS Pores

Subfields: Repeating sets of information items

Mnemonic	POR_0			Conditionality	M↑		
				Status	New - Active		
Description	Each pore is marked by its center point. When no pores are present, this field shall not be used. Each pore is represented as a separate repeating subfield.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1000		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaePore				Cardinality	0..1000	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.345_1

EFS Pores

X Coordinate

Mnemonic	POX			Conditionality	M↑		
				Status	Active		
Description	This information item contains the ‘x’ coordinate of the center of the pore, in units of 10 micrometers (0.01 mm).						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	0 <= POX < EWI; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaePore				Cardinality	0..1000	
XML Level 3	biom_1:ImageLocationHorizontalCoordinateMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.345_2

EFS Pores

Y Coordinate

Mnemonic	POY		Conditionality	M↑	
			Status	Active	
Description	This information item contains the ‘y’ coordinate of the center of the pore, in units of 10 micrometers (0.01 mm).				
Field Min	1		Occur Min	1	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	none	
Format	n/a		Constraints	0 <= POY < EHI; non-negative integer	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0..1
XML Level 2	biom_1:MinutiaePore			Cardinality	0..1000
XML Level 3	biom_1:ImageLocationVerticalCoordinateMeasure			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.346

EFS No Dots Present

Mnemonic	NDOT			Conditionality	D		
				Status	Active		
Description	This optional field is used to indicate whether the analysis process has determined that no dots are present. If the analysis process has determined that no dots could be discerned in the image, this field shall be set to Y; otherwise, this field will be omitted.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	none		
Format	n/a			Constraints	NDOT = Y		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeNoDotsPresentIndicator				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.347

EFS No Incipient Ridges Present

Mnemonic	NINR			Conditionality	D		
				Status	Active		
Description	This optional field is used to indicate whether the analysis process has determined that no incipient ridges could be discerned in the image. If the analysis process has determined that no incipient ridges could be discerned in the image, this field shall otherwise, this field will be omitted.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	none		
Format	n/a			Constraints	NINR = Y		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeNoIncipientRidgesPresentIndicator				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.348

EFS No Creases Present

Mnemonic	NCLD			Conditionality	D		
				Status	Active		
Description	This optional field is used to indicate whether the analysis process has determined that no creases could be discerned in the image. If the analysis process has determined that no creases could be discerned in the image, this field shall be set to Y; otherwise, this field will be omitted.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	none		
Format	n/a			Constraints	NCLD = Y		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeNoCreasesPresentIndicator				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.349

EFS No Ridge Edge Features Present

Mnemonic	NREF			Conditionality	D		
				Status	Active		
Description	This optional field is used to indicate whether the analysis process has determined that no ridge edge features could be discerned in the image. If the analysis process has determined that no ridge edge features could be discerned in the image, this field shall be set to Y; otherwise, this field will be omitted.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	none		
Format	n/a			Constraints	NREF = Y		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeNoRidgeEdgeFeaturesPresentIndicator				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.35

EFS Method of Feature Detection

Mnemonic	MFD			Conditionality	0		
				Status	Active		
Description	This optional field states the method(s) by which the Extended Friction Ridge features were detected and/or edited. Each time fields are created or modified, the date and name of the automated algorithm or human examiner is noted in a new data entry (repeating subfield).						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeFeatureDetection				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.350_0

EFS Method of Feature Detection

Subfields: Repeating sets of information items

Mnemonic	MFD_0			Conditionality	M↑		
				Status	New - Active		
Description	This optional field states the method(s) by which the Extended Friction Ridge features were detected and/or edited. Each time fields are created or modified, the date and name of the automated algorithm or human examiner is noted in a new data entry (repeating subfield).						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	100		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFeatureDetection				Cardinality	0..100	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.350_1

EFS Method of Feature Detection

Field

Mnemonic	FIE	Conditionality	M↑
		Status	Active
Description	This information item indicates which fields correspond to the method noted: it shall contain a single field (e.g., "9.331"), a comma-separated list of fields without spaces (e.g., "9.340,9.341,9.343"), or "ALL". The allowed special characters are the comma and the period.		
Field Min	3	Occur Min	1
Field Max	999	Occur Max	1
Char Types	ANS	Special Chars	Comma and Period
Format	n/a	Constraints	ALL or 9.300 <= value <= 9.373; comma separated fields without a space
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeFeatureDetection	Cardinality	0..100
XML Level 3	biom_1:MinutiaeFeatureDetectionFieldListText	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.350_2

EFS Method of Feature Detection

Method

Mnemonic	FME	Conditionality	M↑
		Status	Active
Description	This information item shall state the method by which the fingerprint features were detected and encoded. See Look Up Codes for valid values.		
Field Min	3	Occur Min	1
Field Max	4	Occur Max	1
Char Types	A	Special Chars	none
Format	n/a	Constraints	FME = AUTO, REV, EDIT, or MAN
Code List	EFS METHOD OF FEATURE DETECTION METHOD CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeFeatureDetection	Cardinality	0..100
XML Level 3	biom_1:MinutiaeFeatureDetectionMethodCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.350_3

EFS Method of Feature Detection

Algorithm Vendor

Mnemonic	FAV			Conditionality	D		
				Status	Active		
Description	This information item should identify the vendor of the encoding algorithm if the method is not “MAN”.						
Field Min	1			Occur Min	0		
Field Max	40			Occur Max	1		
Char Types	U			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFeatureDetection				Cardinality	0..100	
XML Level 3	biom_1:MinutiaeAlgorithmVendorIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.350_4

EFS Method of Feature Detection

Algorithm

Mnemonic	FAL			Conditionality	D		
				Status	Active		
Description	This information item should identify the algorithm by name and version for methods other than “MAN”.						
Field Min	1			Occur Min	0		
Field Max	40			Occur Max	1		
Char Types	U			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFeatureDetection				Cardinality	0..100	
XML Level 3	biom_1:MinutiaeAlgorithmIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.350_5

EFS Method of Feature Detection

Examiner Surname

Mnemonic	ESN			Conditionality	D		
				Status	Active		
Description	This information item should contain the surname (last name) of the fingerprint examiner, for methods other than “AUTO”.						
Field Min	1			Occur Min	0		
Field Max	40			Occur Max	1		
Char Types	U			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeFeatureDetection				Cardinality	0..100	
XML Level 3	biom:MinutiaeExaminer/nc:PersonName/				Cardinality	0..1	
XML Level 4	nc:PersonSurname				Cardinality	0..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.350_6

EFS Method of Feature Detection

Examiner Given Name

Mnemonic	EGN			Conditionality	D		
				Status	Active		
Description	This information item should contain the first name (given name, or first and middle names) of the fingerprint examiner for methods other than “AUTO.”						
Field Min	1			Occur Min	0		
Field Max	40			Occur Max	1		
Char Types	U			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFeatureDetection				Cardinality	0..100	
XML Level 3	biom:MinutiaeExaminer/nc:PersonName/				Cardinality	0..1	
XML Level 4	nc:PersonGivenName				Cardinality	0..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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EFS Method of Feature Detection

Examiner Affiliation

Mnemonic	EAF			Conditionality	D		
				Status	Active		
Description	This information item should contain the employer or organizational affiliation of the examiner, for methods other than “AUTO”.						
Field Min	1			Occur Min	0		
Field Max	66			Occur Max	1		
Char Types	U			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0..1	
XML Level 2	biom_1:MinutiaeFeatureDetection				Cardinality	0..100	
XML Level 3	biom:MinutiaeExaminer/nc:PersonName/				Cardinality	0..1	
XML Level 4	nc:OrganizationName				Cardinality	0..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.350_8

EFS Method of Feature Detection

Date and Time

Mnemonic	EMT			Conditionality	M↑		
				Status	Active		
Description	This information item should contain the date and time that the determination was made, using Greenwich Mean Time (GMT).						
Field Min	15			Occur Min	0		
Field Max	15			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding			Constraints	Dependent upon encoding		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFeatureDetection				Cardinality	0..100	
XML Level 3	biom:MinutiaeExaminer/nc:PersonName/				Cardinality	0..1	
XML Level 4	biom_1:MinutiaeFeatureDetectionDateTime				Cardinality	0..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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EFS Method of Feature Detection

Notes

Mnemonic	NTS			Conditionality	O↑		
				Status	Active		
Description	This information item is an optional item that may contain text with additional information regarding the detection or modification of features.						
Field Min	1			Occur Min	0		
Field Max	99			Occur Max	1		
Char Types	U			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFeatureDetection				Cardinality	0..100	
XML Level 3	biom:MinutiaeExaminer/nc:PersonName/				Cardinality	0..1	
XML Level 4	biom_1:MinutiaeCommentText				Cardinality	0..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.351

EFS Comment

Mnemonic	COM			Conditionality	O		
				Status	Active		
Description	This optional text field contains additional information not noted in other fields. This may include unformatted text information such as location, background information, or descriptive information. If comments need to be made about specific portions of the impression, use Field 9.324: EFS distinctive features / DIS or Field 9.332: EFS minutiae ridge count algorithm / MRA.						
Field Min	1			Occur Min	0		
Field Max	123			Occur Max	1		
Char Types	U			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeCommentText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.352

EFS Latent Processing Method

Mnemonic	LPM	Conditionality	0
		Status	Active
Description	This optional text field contains one or more three-letter codes indicating the technique(s) used to process the latent fingerprint. Unprocessed impressions (latent images visible to the naked eye) shall be labeled VIS. Multiple methods should be marked by separate subfields. Methods should only be marked if they contributed substantively to the visualization of the image, and shall not be a compilation of all methods attempted.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	none
Format	n/a	Constraints	LPM= 12I, ADX, ALS, AMB, AY7, BAR, BLE, BLP, BPA, BRY, CBB, CDS, COG, DAB, DFO, DLP, GEN, GRP, GTV, HCA, IOD< ISR, LAS, LCV, LIQ, LQD, MBD, MBP, MGP, MPD, MRM, NIN, OTH, PDV, R6G, RAM, RUV, SAO, SDB, SGF, SPR, SSP, SVN, TEC, TID, VIS, WHP, ZIC
Code List	EFS LATENT PROCESSING METHOD CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:LatentProcessingCategoryCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.352_0

EFS Latent Processing Method

Subfields: Repeating sets of information items

Mnemonic	LPM_0		Conditionality	M↑	
			Status	New - Active	
Description	This optional text field contains one or more three-letter codes indicating the technique(s) used to process the latent fingerprint. Unprocessed impressions (latent images visible to the naked eye) shall be labeled VIS. Multiple methods should be marked by separate subfields. Methods should only be marked if they contributed substantively to the visualization of the image, and shall not be a compilation of all methods attempted.				
Field Min	3		Occur Min	0	
Field Max	3		Occur Max	10	
Char Types	AN		Special Chars	none	
Format	n/a		Constraints	LPM= 12I, ADX, ALS, AMB, AY7, BAR, BLE, BLP, BPA, BRY, CBB, CDS, COG, DAB, DFO, DLP, GEN, GRP, GTV, HCA, IOD< ISR, LAS, LCV, LIQ, LQD, MBD, MBP, MGP, MPD, MRM, NIN, OTH, PDV, R6G, RAM, RUV, SAO, SDB, SGF, SPR, SSP, SVN, TEC, TID, VIS, WHP, ZIC	
Code List	EFS LATENT PROCESSING METHOD CODES				
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0...1
XML Level 2	biom_1:LatentProcessingCategoryCode			Cardinality	0..10
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

9.353

EFS Examiner Analysis Assessment

Mnemonic	EAA	Conditionality	O
		Status	Active
Description	This optional text field indicates an examiner's assessment of the value of the single impression delineated by Field 9.300: EFS region of interest / ROI. See also Field 9.362: EFS examiner comparison determination / ECD for comparison determinations.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae		Cardinality 0...1
XML Level 2	biom_1:MinutiaeValueAssessment		Cardinality 0..1
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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EFS Examiner Analysis Assessment

Value Assessment Code

Mnemonic	AAV			Conditionality	M ↑		
				Status	Active		
Description	This information item indicates the value of the impression. See Look Up Codes for valid values.						
Field Min	5			Occur Min	1		
Field Max	8			Occur Max	1		
Char Types	A			Special Chars	none		
Format	n/a			Constraints	AAV = VALUE, LIMITED, NOVALUE, NONPRINT		
Code List	EFS EXAMINER PROCESSING METHOD VALUE ASSESSMENT CODES						
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeValueAssessment				Cardinality	0..1	
XML Level 3	biom_1:MinutiaeValueAssessmentResultCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.353_2

EFS Examiner Analysis Assessment

Examiner Last Name

Mnemonic	ALN			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain the surname (last name) of the fingerprint examiner.						
Field Min	1			Occur Min	1		
Field Max	40			Occur Max	1		
Char Types	U			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeValueAssessment				Cardinality	0..1	
XML Level 3	biom_1:MinutiaeExaminer/nc:PersonName/				Cardinality	1..1	
XML Level 4	nc:PersonSurname				Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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EFS Examiner Analysis Assessment

Examiner First Name

Mnemonic	AFN			Conditionality	M ↑		
				Status	Active		
Description	This information item shall contain the first name (given name, or first and middle names) of the fingerprint examiner.						
Field Min	1			Occur Min	1		
Field Max	40			Occur Max	1		
Char Types	U			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeValueAssessment				Cardinality	0..1	
XML Level 3	biom_1:MinutiaeExaminer/nc:PersonName/				Cardinality	1..1	
XML Level 4	nc:PersonGivenName				Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.353_4

EFS Examiner Analysis Assessment

Examiner Affiliation

Mnemonic	AAF			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain the employer or organizational affiliation of the examiner.						
Field Min	1			Occur Min	1		
Field Max	99			Occur Max	1		
Char Types	U			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeValueAssessment				Cardinality	0..1	
XML Level 3	biom_1:MinutiaeExaminer/nc:PersonName/				Cardinality	1..1	
XML Level 4	nc:OrganizationName				Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.353_5

EFS Examiner Analysis Assessment

Date and Time (GMT)

Mnemonic	AMT	Conditionality	M↑
		Status	Active
Description	This information item shall contain the date and time that the determination was made, using Greenwich Mean Time (GMT).		
Field Min	15	Occur Min	1
Field Max	15	Occur Max	1
Char Types	AN	Special Chars	none
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding	Constraints	Dependent upon encoding
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeValueAssessment	Cardinality	0..1
XML Level 3	biom_1:MinutiaeExaminer/nc:PersonName/	Cardinality	1..1
XML Level 4	biom_1:MinutiaeValueAssessmentDateTime	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.353_6

EFS Examiner Analysis Assessment

Comment

Mnemonic	ACM	Conditionality	O↑
		Status	Active
Description	This information item is optional and contains additional clarifying information for the examiner analysis assessment.		
Field Min	1	Occur Min	0
Field Max	200	Occur Max	1
Char Types	U	Special Chars	none
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeValueAssessment	Cardinality	0..1
XML Level 3	biom_1:MinutiaeExaminer/nc:PersonName/	Cardinality	1..1
XML Level 4	biom_1:MinutiaeCommentText	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.353_7

EFS Examiner Analysis Assessment

Analysis Complexity Flag

Mnemonic	CXF	Conditionality	O↑
		Status	Active
Description	This information item is optional and is only used when the examiner determines that the analysis was complex as defined in Standards for examining friction ridge impressions and resulting conclusions. In that case, an entry of "COMPLEX" is made. This decision is based on the available quality of features, low specificity of features, significant distortion, or disagreement among examiners. This information item is included for use in quality assurance / quality control processes.		
Field Min	7	Occur Min	0
Field Max	7	Occur Max	1
Char Types	A	Special Chars	none
Format	n/a	Constraints	CXF = COMPLEX
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeValueAssessment	Cardinality	0..1
XML Level 3	biom_1:MinutiaeExaminer/nc:PersonName/	Cardinality	1..1
XML Level 4	biom_1:MinutiaeAnalysisComplexityCode	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.354

EFS Evidence of Fraud

Mnemonic	EOF	Conditionality	O
		Status	Active
Description	This text field indicates that there is basis for determination that the image may be fraudulent.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeFraudEvidence	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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EFS Evidence of Fraud

Subfields: Repeating sets of information items

Mnemonic	EOF_0			Conditionality	M↑		
				Status	New - Active		
Description	This text field indicates that there is basis for determination that the image may be fraudulent.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	5		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFraudEvidence				Cardinality	0..5	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.354_1

EFS Evidence of Fraud

Fraud Type

Mnemonic	FRA			Conditionality	M↑		
				Status	Active		
Description	This information item indicates the potential type of fraud attempted as determined from the impression. See Look Up Codes for valid values.						
Field Min	3			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	A			Special Chars	none		
Format	n/a			Constraints	FRA = EVA, SPO, FOR, or FAB		
Code List	EFS EVIDENCE OF FRAUD TYPE CODES						
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFraudEvidence				Cardinality	0..5	
XML Level 3	biom_1:MinutiaeFraudEvidenceCategoryCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.354_2

EFS Evidence of Fraud

Comment

Mnemonic	CFD			Conditionality	O↑		
				Status	Active		
Description	This information item is optional and contains text that provides clarifying information regarding the assessment of potential evidence of fraud.						
Field Min	1			Occur Min	0		
Field Max	200			Occur Max	1		
Char Types	U			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFraudEvidence				Cardinality	0..5	
XML Level 3	biom_1:MinutiaeCommentText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.355

EFS Latent Substrate

Mnemonic	LSB			Conditionality	0		
				Status	Active		
Description	This field is used to define the substrate, or surface on which the friction ridge impression was deposited. If multiple substrates are present, they are represented by separate subfields.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeLatentSubstrate				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.355_0

EFS Latent Substrate

Subfields: Repeating sets of information items

Mnemonic	LSB_0	Conditionality	M↑
		Status	New - Active
Description	This field is used to define the substrate, or surface on which the friction ridge impression was deposited. If multiple substrates are present, they are represented by separate subfields.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	4
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeLatentSubstrate	Cardinality	0..4
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.355_1

EFS Latent Substrate

Code

Mnemonic	CLS	Conditionality	M↑
		Status	Active
Description	This information item indicates the type of substrate. See Look Up Codes for valid values.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	AN	Special Chars	none
Format	n/a	Constraints	CLS = 1A, 1B, 1C, 1D, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2I, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 4A, or 4B
Code List	EFS LATENT SUBSTRATE CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeLatentSubstrate	Cardinality	0..4
XML Level 3	biom_1:MinutiaeLatentSubstrateCategoryCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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EFS Latent Substrate

Object / Substrate Description

Mnemonic	OSD			Conditionality	0↑		
				Status	Active		
Description	This information item is optional and may contain text that describes the object or surface on which the print was deposited, or provides clarifying information regarding the substrate. An example is “Neck of green glass beer bottle”.						
Field Min	1			Occur Min	0		
Field Max	1000			Occur Max	1		
Char Types	U			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeLatentSubstrate				Cardinality	0..4	
XML Level 3	biom_1:MinutiaeLatentSubstrateDescriptionText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.356

EFS Latent Matrix

Mnemonic	LMT			Conditionality	0		
				Status	Active		
Description	This field is used to define the matrix, or substance deposited by the finger that forms the impression. Each latent matrix is represented by a separate data entry (repeating subfield).						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeLatentMatrix				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.356_0

EFS Latent Matrix

Subfields: Repeating sets of information items

Mnemonic	LMT_0	Conditionality	M↑
		Status	New - Active
Description	This field is used to define the matrix, or substance deposited by the finger that forms the impression. Each latent matrix is represented by a separate data entry (repeating subfield).		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	4
Char Types	n/a	Special Chars	none
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeLatentMatrix	Cardinality	0..4
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.356_1

EFS Latent Matrix

Code

Mnemonic	TOM	Conditionality	M↑
		Status	Active
Description	This information item is mandatory and indicates the type of matrix. All visible contaminants are apparent rather than necessarily known to certainty: for example, the substrate may be marked as blood if it appears to be blood; if known for certain that should be indicated as a comment. See Look Up Codes for valid values.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= TOM <=10; non-negative integer
Code List	EFS LATENT MATRIX CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeLatentMatrix	Cardinality	0..4
XML Level 3	biom_1:MinutiaeLatentMatrixCategoryCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.356_2

EFS Latent Matrix

Comment

Mnemonic	CLA	Conditionality	O↑
		Status	Active
Description	This information item is optional and may contain text that provides clarifying information regarding the matrix.		
Field Min	1	Occur Min	0
Field Max	1000	Occur Max	1
Char Types	U	Special Chars	none
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeLatentMatrix	Cardinality	0..4
XML Level 3	biom_1:MinutiaeCommentText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.357

EFS Local Quality Issues

Mnemonic	LQI	Conditionality	O
		Status	Active
Description	This optional field is used to define one or more areas containing quality or transfer issues that indicate that the anatomical friction ridge features may not have been accurately represented in the image. Each area with local quality issues is represented as a separate repeating subfield. The problems noted in this field apply to the specific impression under consideration; anatomical features of the friction skin itself (such as scars) are noted in (Field 9.324: EFS distinctive features / DIS).		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeLocalQualityIssues	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.357_0

EFS Local Quality Issues

Subfields: Repeating sets of information items

Mnemonic	LQI_0	Conditionality	M↑
		Status	New - Active
Description	This optional field is used to define one or more areas containing quality or transfer issues that indicate that the anatomical friction ridge features may not have been accurately represented in the image. Each area with local quality issues is represented as a separate repeating subfield. The problems noted in this field apply to the specific impression under consideration; anatomical features of the friction skin itself (such as scars) are noted in (Field 9.324: EFS distinctive features / DIS).		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	*
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeLocalQualityIssues	Cardinality	0..*
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.357_1

EFS Local Quality Issues

Type

Mnemonic	LQT	Conditionality	M↑
		Status	Active
Description	This information item is the type of quality issue. See Look Up Codes for valid values.		
Field Min	4	Occur Min	1
Field Max	10	Occur Max	1
Char Types	A	Special Chars	none
Format	n/a	Constraints	LQT = ARTIFACT, BACKGROUND, COMPRESSED, DISTORT, NEGATIVE, OVERDEV, OVERLAP, SMEAR, STRETCHED, TAPE, OTHER
Code List	EFS QUALITY ISSUE CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeLocalQualityIssues	Cardinality	0..*
XML Level 3	biom_1:MinutiaeLocalQualityIssuesCategoryCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.357_2

EFS Local Quality Issues

Polygon

Mnemonic	LQP	Conditionality	M↑
		Status	Active
Description	This information item is a closed path outlining the area of the quality issue. In Traditional encoding, the two special characters allowed are hyphen and comma. These special characters are not used in XML Encoding.		
Field Min	11	Occur Min	1
Field Max	1188	Occur Max	1
Char Types	NS	Special Chars	Minus Sign and Comma
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeLocalQualityIssues	Cardinality	0..*
XML Level 3	biom_1:ImageSegmentPolygon(1...1)/biom_1:ImageSegmentVertex(3...99)	Cardinality	1..1
XML Level 4	biom_1:ImageLocationHorizontalCoordinateMeasure + biom_1:ImageLocationVerticalCoordinateMeasure	Cardinality	1...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.357_3

EFS Local Quality Issues

Comment

Mnemonic	LQC	Conditionality	O↑
		Status	Active
Description	This information item is optional and may contain text describing the quality issue.		
Field Min	1	Occur Min	0
Field Max	1000	Occur Max	1
Char Types	U	Special Chars	none
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeLocalQualityIssues	Cardinality	0..*
XML Level 3	biom_1:MinutiaeCommentText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.36

EFS Area of Correspondence

Mnemonic	AOC	Conditionality	0
		Status	Active
Description	This field is to be used only when two or more images contained in a single EBTS transaction are compared as candidates for individualization (potential mates). The area of correspondence is a polygon enclosing the region of usable ridge detail present in both images being compared. One Type-9 record may have multiple AOCs defined that correspond to different images, each in a separate repeating subfield. Note that the AOC in a given Type-9 record contains an IDC reference for one or more other Type-9 record in a transaction. For example, a latent could have areas of correspondence with both the rolled and plain exemplars from one subject, or a latent could have areas of correspondence with candidate exemplars from two different subjects. If the area of a small print is completely enclosed by the area of a larger print so that the AOC for the small print is identical to the ROI, the AOC may be omitted for the smaller print.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageAreaOfCorrespondence	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.360_0

EFS Area of Correspondence

Subfields: Repeating sets of information items

Mnemonic	AOC_0	Conditionality	M↑
		Status	New - Active
Description	This field is to be used only when two or more images contained in a single EBTS transaction are compared as candidates for individualization (potential mates). The area of correspondence is a polygon enclosing the region of usable ridge detail present in both images being compared. One Type-9 record may have multiple AOCs defined that correspond to different images, each in a separate repeating subfield. Note that the AOC in a given Type-9 record contains an IDC reference for one or more other Type-9 record in a transaction. For example, a latent could have areas of correspondence with both the rolled and plain exemplars from one subject, or a latent could have areas of correspondence with candidate exemplars from two different subjects. If the area of a small print is completely enclosed by the area of a larger print so that the AOC for the small print is identical to the ROI, the AOC may be omitted for the smaller print.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	*
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageAreaOfCorrespondence	Cardinality	0..*
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.360_1

EFS Area of Correspondence

IDC Reference

Mnemonic	CIR			Conditionality	M ↑		
				Status	Active		
Description	This information item indicates the IDC for the target image / Type-9 record for a given AOC.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	0 <= CIR <= 99; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FrictionRidgeImageAreaOfCorrespondence				Cardinality	0..*	
XML Level 3	biom_1:ImageReferenceIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.360_2

EFS Area of Correspondence

Polygon (Closed Path)

Mnemonic	AOP		Conditionality	M↑	
			Status	Active	
Description	This information item defines the outline of the corresponding area. It is a closed path. In Traditional encoding, the two special characters allowed are hyphen and comma. These special characters are not used in XML Encoding.				
Field Min	11		Occur Min	1	
Field Max	1188		Occur Max	1	
Char Types	NS		Special Chars	Minus Sign and Comma	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageAreaOfCorrespondence			Cardinality	0..*
XML Level 3	biom_1:ImageSegmentPolygon(1...1)/biom_1:ImageSegmentVertex(3...99)			Cardinality	1..1
XML Level 4	biom_1:ImageLocationHorizontalCoordinateMeasure + biom_1:ImageLocationVerticalCoordinateMeasure			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.360_3

EFS Area of Correspondence

Comment

Mnemonic	CAC	Conditionality	O↑
		Status	Active
Description	This information item is optional and allows a free text comment or description related to the AOC.		
Field Min	1	Occur Min	0
Field Max	1000	Occur Max	1
Char Types	U	Special Chars	none
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageAreaOfCorrespondence	Cardinality	0..*
XML Level 3	biom_1:MinutiaeCommentText	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.361

EFS Corresponding Points or Features

Mnemonic	CPF	Conditionality	O
		Status	Active
Description	This optional field is used to label points or features for comparison of the current feature set with other Type-9 feature sets in a transaction. This field is to be used only when two or more images contained in a single transaction are compared, either as candidates for individualization (potential mates), or for annotating reasons for exclusion. For each of the images being compared, specific points or features are marked in each of the Type-9 records, with correspondence indicated by the use of the same label, each in a separate data entry (repeating subfield). Labels within a single Type-9 record shall be unique. For example, if a transaction contains one latent and multiple candidate exemplars, a feature labeled "A" in the latent's Type-9 feature set corresponds with the feature labeled "A" (if present) in all of the exemplar Type-9 feature sets. Corresponding Points or Features may refer to arbitrary points, or may refer to predefined features. The features include point features (such as minutiae, dots, or pores), but also may refer to areas (such as distinctive characteristics), lines (incipient ridges or creases), or paths (ridge path segments). Arbitrary points may be used to indicate characteristics that were not noted during analysis, or to indicate points in an exemplar that was not previously marked up.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeFeatureCorrespondence	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.361_0

EFS Corresponding Points or Features

Subfields: Repeating sets of information items

Mnemonic	CPF_0			Conditionality	M ↑		
				Status	New - Active		
Description	This optional field is used to label points or features for comparison of the current feature set with other Type-9 feature sets in a transaction. This field is to be used only when two or more images contained in a single transaction are compared, either as candidates for individualization (potential mates), or for annotating reasons for exclusion. For each of the images being compared, specific points or features are marked in each of the Type-9 records, with correspondence indicated by the use of the same label, each in a separate data entry (repeating subfield). Labels within a single Type-9 record shall be unique. For example, if a transaction contains one latent and multiple candidate exemplars, a feature labeled “A” in the latent’s Type-9 feature set corresponds with the feature labeled “A” (if present) in all of the exemplar Type-9 feature sets. Corresponding Points or Features may refer to arbitrary points, or may refer to predefined features. The features include point features (such as minutiae, dots, or pores), but also may refer to areas (such as distinctive characteristics), lines (incipient ridges or creases), or paths (ridge path segments). Arbitrary points may be used to indicate characteristics that were not noted during analysis, or to indicate points in an exemplar that was not previously marked up.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFeatureCorrespondence				Cardinality	0..*	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.361_1

EFS Corresponding Points or Features

Label

Mnemonic	COL			Conditionality	M↑		
				Status	Active		
Description	This information item is a mandatory 1-3 character alphanumeric label that is used to indicate correspondence between CPFs in different Type-9 records. The label names may be selected and assigned at the discretion of the system or the examiner. Labels within a single Type-9 record shall be unique. Note that the use of a given label in one Type-9 record means that that point or feature corresponds with any or all other features with the same label in other Type-9 records in the transaction.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	AN			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFeatureCorrespondence				Cardinality	0..*	
XML Level 3	biom_1:MinutiaeFeatureIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.361_2

EFS Corresponding Points or Features

Type of Correspondence

Mnemonic	TOC			Conditionality	M ↑		
				Status	Active		
Description	This information item is a mandatory 1- or 2-character information item (code) used to indicate the type of correspondence or non-correspondence. See Look Up Codes for valid values.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	A			Special Chars	none		
Format	n/a			Constraints	TOC = F, P, DF, DP, X, R, or U		
Code List	EFS TYPE OF CORRESPONDENCE CODES						
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFeatureCorrespondence				Cardinality	0..*	
XML Level 3	biom_1:MinutiaeFeatureCorrespondenceCategoryCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.361_3

EFS Corresponding Points or Features

Corresponding Field Number

Mnemonic	CFN			Conditionality	D		
				Status	Active		
Description	This information item is conditional, used only if TOC = F or DF. The Field Number information item indicates the type of field being compared, and shall correspond to the "Field Number." This is the Type-9 field number of the compared field.						
Field Min	3			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	CFN = 320, 321, 324, 331, 340, 341, 342, 343, 345, 373		
Code List	EFS CORRESPONDING FIELD NUMBER CODES						
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFeatureCorrespondence				Cardinality	0..*	
XML Level 3	biom_1:MinutiaeFeatureCategoryCode				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.361_4

EFS Corresponding Points or Features

Corresponding Field Occurance

Mnemonic	FOC		Conditionality	D	
			Status	Active	
Description	This information item is conditional, used only if TOC = F or DF. This information item indicates which repeating subfield of the specified field the label is applied to. Note that this is a 1-based index, not a 0-based index. Occurrences are numbered starting with 1.				
Field Min	1		Occur Min	0	
Field Max	3		Occur Max	1	
Char Types	N		Special Chars	none	
Format	n/a		Constraints	1 <= FOC <= 999; positive integer	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0...1
XML Level 2	biom_1:MinutiaeFeatureCorrespondence			Cardinality	0..*
XML Level 3	biom_1:MinutiaeFeatureReferenceIdentification/nc:IdentificationID			Cardinality	0..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

9.361_5

EFS Corresponding Points or Features

Corresponding X Coordinate

Mnemonic	CXC			Conditionality	D		
				Status	Active		
Description	This information item is mandatory if TOC = P or DP and is optional if TOC = X. It is expressed in units of 10 micrometers (0.01 mm).						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	1 <= QXC < EW1; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeFeatureCorrespondence				Cardinality	0..*	
XML Level 3	biom_1:ImageLocationHorizontalCoordinateMeasure				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.361_6

EFS Corresponding Points or Features

Corresponding Y Coordinate

Mnemonic	CYC	Conditionality	D
		Status	Active
Description	This information item is mandatory if TOC = P or DP and is optional if TOC = X. It is expressed in units of 10 micrometers (0.01 mm).		
Field Min	1	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	1 <= QYC < EHI; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeFeatureCorrespondence	Cardinality	0..*
XML Level 3	biom_1:ImageLocationVerticalCoordinateMeasure	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.361_7

EFS Corresponding Points or Features

Comment

Mnemonic	COC	Conditionality	O↑
		Status	Active
Description	This information item is optional and may contain a text comment or description related to the CPF.		
Field Min	1	Occur Min	0
Field Max	1000	Occur Max	1
Char Types	U	Special Chars	none
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeFeatureCorrespondence	Cardinality	0..*
XML Level 3	biom_1:MinutiaeCommentText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.362

EFS Examiner Comparison Determination

Mnemonic	ECD			Conditionality	0
				Status	Active
Description	This optional text field indicates an examiner’s determination based on analysis and comparison of two specified friction ridge images. If multiple examiners’ determinations are represented, each is contained separately in a repeating subfield. Comparison determinations against multiple impressions in the same transaction are specified in a separate subfield with distinct IDC references. Each subfield consists of at least seven information items. The eighth and ninth information items are optional.				
Field Min	n/a			Occur Min	0
Field Max	n/a			Occur Max	1
Char Types	n/a			Special Chars	n/a
Format	n/a			Constraints	n/a
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0...1
XML Level 2	biom_1:MinutiaeExaminerComparisonDetermination			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

9.362_0

EFS Examiner Comparison Determination*Subfields: Repeating sets of information items*

Mnemonic	ECD_0		Conditionality	M↑	
			Status	Active	
Description	This optional text field indicates an examiner's determination based on analysis and comparison of two specified friction ridge images. If multiple examiners' determinations are represented, each is contained separately in a repeating subfield. Comparison determinations against multiple impressions in the same transaction are specified in a separate subfield with distinct IDC references. Each subfield consists of at least seven information items. The eighth and ninth information items are optional.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	*	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0...1
XML Level 2	biom_1:MinutiaeExaminerComparisonDetermination			Cardinality	0..*
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.362_1

EFS Examiner Comparison Determination

IDC Reference

Mnemonic	EDC	Conditionality	M↑
		Status	New - Active
Description	This information item indicates the target image for a given determination, and is used in the same way as the IDC in Field 9.360: EFS area of correspondence / AOC.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	0 <= EDC <= 99; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeExaminerComparisonDetermination	Cardinality	0..*
XML Level 3	biom_1:ImageReferenceIdentification	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.362_2

EFS Examiner Comparison Determination

Determination

Mnemonic	EDE	Conditionality	M↑
		Status	Active
Description	This information item indicates a comparison conclusion. The allowed special character is the underscore. See Look Up Codes for valid values		
Field Min	4	Occur Min	1
Field Max	6	Occur Max	1
Char Types	AS	Special Chars	none
Format	n/a	Constraints	EDE = INDIV, INC_1, INC_C, INC_D, INC_N, EX_SRC, EX_SUB, NONE
Code List	EFS EXAMINER COMPARISON DETERMINATION CODES		
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeExaminerComparisonDetermination	Cardinality	0..*
XML Level 3	biom_1:MinutiaeExaminerComparisonDeterminationResultCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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EFS Examiner Comparison Determination

Work In Progress

Mnemonic	WIP			Conditionality	M↑		
				Status	Active		
Description	This information item is set to “PRELIMINARY” (default) or “FINAL”. For a determination to be accepted for further processing, the status shall be set to “FINAL”. The purpose of this is to allow saving work in progress.						
Field Min	5			Occur Min	1		
Field Max	11			Occur Max	1		
Char Types	A			Special Chars	none		
Format	n/a			Constraints	WIP = PRELIMINARY or FINAL		
Code List	EFS EXAMINER COMPARISON DETERMINATION WORK IN PROGRESS CODES						
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeExaminerComparisonDetermination				Cardinality	0..*	
XML Level 3	biom_1:MinutiaeExaminerComparisonDeterminationResultCode				Cardinality	1..1	
XML Level 4	biom_1:MinutiaeExaminerProgressCode				Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.362_4

EFS Examiner Comparison Determination

Examiner Last Name

Mnemonic	ELN			Conditionality	M↑		
				Status	Active		
Description	This information item is the surname (last name) of the fingerprint examiner.						
Field Min	1			Occur Min	1		
Field Max	40			Occur Max	1		
Char Types	U			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:MinutiaeExaminerComparisonDetermination				Cardinality	0..*	
XML Level 3	biom_1:MinutiaeExaminerComparisonDeterminationResultCode				Cardinality	1..1	
XML Level 4	biom:MinutiaeExaminer/nc:PersonName/nc:PersonSurname				Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.362_5EFS Examiner Comparison Determination*Examiner First Name*

Mnemonic	EFN	Conditionality	M↑
		Status	Active
Description	This information item is the given name (first name or first and middle names) of the fingerprint examiner.		
Field Min	1	Occur Min	1
Field Max	40	Occur Max	1
Char Types	U	Special Chars	none
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeExaminerComparisonDetermination	Cardinality	0..*
XML Level 3	biom_1:MinutiaeExaminerComparisonDeterminationResultCode	Cardinality	1..1
XML Level 4	biom:MinutiaeExaminer/nc:PersonName/nc:PersonGivenName	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.362_6EFS Examiner Comparison Determination*Examiner Affiliation*

Mnemonic	EAF	Conditionality	M↑
		Status	Active
Description	This information item is the employer or organizational affiliation of the examiner.		
Field Min	1	Occur Min	1
Field Max	99	Occur Max	1
Char Types	U	Special Chars	none
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeExaminerComparisonDetermination	Cardinality	0..*
XML Level 3	biom_1:MinutiaeExaminerComparisonDeterminationResultCode	Cardinality	1..1
XML Level 4	biom:MinutiaeExaminer/biom:MinutiaeExaminerAffiliation/nc:OrganizationName	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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EFS Examiner Comparison Determination

Date and Time (GMT)

Mnemonic	DTG	Conditionality	M↑
		Status	Active
Description	This information item is the date and time that the determination was made, in terms of Greenwich Mean Time units.		
Field Min	15	Occur Min	1
Field Max	15	Occur Max	1
Char Types	AN	Special Chars	none
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding	Constraints	Dependent upon encoding
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeExaminerComparisonDetermination	Cardinality	0..*
XML Level 3	biom_1:MinutiaeExaminerComparisonDeterminationResultCode	Cardinality	1..1
XML Level 4	biom_1:MinutiaeExaminerComparisonDeterminationDateTime/nc:Date Time	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.362_8

EFS Examiner Comparison Determination

Comment

Mnemonic	CZZ	Conditionality	O↑
		Status	Active
Description	This information item is optional and may contain text that provides clarifying or qualifying information regarding the comparison determination.		
Field Min	1	Occur Min	0
Field Max	200	Occur Max	1
Char Types	U	Special Chars	none
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeExaminerComparisonDetermination	Cardinality	0..*
XML Level 3	biom_1:MinutiaeExaminerComparisonDeterminationResultCode	Cardinality	1..1
XML Level 4	biom_1:MinutiaeCommentText	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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EFS Examiner Comparison Determination

Complex Comparison Flag

Mnemonic	CCF		Conditionality	0↑	
			Status	Active	
Description	This information item is optional. It is only used when the examiner determines that the comparison was complex as defined in Standards for examining friction ridge impressions and resulting conclusions based on the available quality and quantity of features, low specificity of features, significant distortion, or disagreement among examiners. In such case, the value shall be set to 'COMPLEX'. This information item is included for use in quality assurance/quality control processes.				
Field Min	7		Occur Min	0	
Field Max	7		Occur Max	1	
Char Types	A		Special Chars	none	
Format	n/a		Constraints	CCF = COMPLEX	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-9)				
XML Level 1	biom_1:ExtendedFeatureSetMinutiae			Cardinality	0..1
XML Level 2	biom_1:MinutiaeExaminerComparisonDetermination			Cardinality	0..*
XML Level 3	biom_1:MinutiaeExaminerComparisonDeterminationResultCode			Cardinality	1..1
XML Level 4	biom_1:MinutiaeComparisonComplexityCode			Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

9.363

EFS Relative Rotation of Corresponding Print

Mnemonic	RRC			Conditionality	0	
				Status	Active	
Description	This optional field may be used when two or more images contained in a single EBTS transaction are compared. This field indicates the relative overall rotation necessary for the prints to be compared. Each subfield consists of 2 information items. The number of subfields is limited only by the number of Type-9 records in the transaction.					
Field Min	n/a			Occur Min	0	
Field Max	n/a			Occur Max	1	
Char Types	n/a			Special Chars	n/a	
Format	n/a			Constraints	n/a	
Code List						
Source	ANSI/NIST ITL 1-2013 (Type-9)					
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1
XML Level 2	biom_1:FrictionRidgeImageRelativeRotation				Cardinality	0..1
XML Level 3					Cardinality	
XML Level 4					Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0
						Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.363_0

EFS Relative Rotation of Corresponding Print

Subfields: Repeating sets of information items

Mnemonic	RRC_0			Conditionality	M↑		
				Status	New - Active		
Description	This optional field may be used when two or more images contained in a single EBTS transaction are compared. This field indicates the relative overall rotation necessary for the prints to be compared. Each subfield consists of 2 information items. The number of subfields is limited only by the number of Type-9 records in the transaction.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FrictionRidgeImageRelativeRotation				Cardinality	0..*	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.363_1

EFS Relative Rotation of Corresponding Print

Rotation IDC Reference

Mnemonic	RIR			Conditionality	M↑		
				Status	Active		
Description	This information item indicates the IDC for the Type-9 record associated with the target image/ Type-9 record for a given RRC.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	0 <= RIR <= 99; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FrictionRidgeImageRelativeRotation				Cardinality	0..*	
XML Level 3	biom_1:ImageReferenceIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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EFS Relative Rotation of Corresponding Print

Relative Overall Rotation

Mnemonic	ROR			Conditionality	M↑		
				Status	Active		
Description	This information item defines the integer the number of Type-9 records in the transaction. number of degrees that the target image and/or features referenced by RIR shall be rotated to correspond to the data in this Type-9 record. Positive numbers indicate degrees counterclockwise; negative numbers indicate degrees clockwise: (-179 to 180 inclusive). The allowed special character is the negative sign.						
Field Min	1			Occur Min	1		
Field Max	4			Occur Max	1		
Char Types	NS			Special Chars	Minus Sign		
Format	n/a			Constraints	-179 <= ROR <= 180; integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FrictionRidgeImageRelativeRotation				Cardinality	0..*	
XML Level 3	biom_1:ImageRelativeOverallRotationValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.372

EFS Skeletonized Image

Mnemonic	SIM			Conditionality	O		
				Status	Active		
Description	This optional field contains a skeletonized image, also known as a ridge tracing, which reduces the friction ridge impression to an image with thinned representations of each ridge. Incipient ridges, dots, ridge discontinuities, and protrusions are not in the skeleton. The skeletonized image is a 2-tone image with a white background and a black single-pixelwide thinned representation of each ridge. Each black pixel may have 1, 2, or 3 neighboring black pixels; other values (0, 4-8) are errors. The same information may alternatively be represented using Field 9.373: EFS ridge path segments / RPS.Field 9.373: EFS ridge path segments / RPS. The skeletonized image is stored as a 1-bit grayscale PNG compressed image, bit-packed 6 bits per character using Base-64 representation. The entire PNG formatted image is included as a single data entry / information item. Interlacing, alpha transparency, and color palettes shall not be used. The skeletonized image's dimensions shall be identical width and height of the ROI (See Field 9.300: EFS region of interest / ROI). The resolution of the skeletonized image shall be the same as the original image, and shall be set in the PNG header.						
Field Min	8			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	Base 64			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:FrictionRidgeSkeletonizedImageBinaryObject				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.373

EFS Ridge Path Segments

Mnemonic	RPS	Conditionality	O
		Status	Active
Description	This optional field contains an alternate representation of the same skeletonized image data contained in Field 9.372: EFS skeletonized image / SIM. Each ridge path segment is saved as an open path (ordered set of vertices). Multiple segments may be included in this field. Incipient ridges, dots, ridge discontinuities, and protrusions are not included in the ridge path representation. Each skeletonized ridge segment is stored as a separate subfield. Each endpoint of a ridge segment is either shared by three ridge segments (at a bifurcation) or is unique to a single ridge segment (at a ridge ending). Each ridge path segment (if completely visible) is the portion of a ridge that connects two minutiae, so each ridge path segment starts and stops either where the ridge intersects another ridge path segment (a bifurcation) or ends (a ridge ending). In the infrequent case in which a ridge segment forms a complete loop back on itself without intersecting another ridge segment (such as near the core of some plain whorls or central pocket loops), the ridge path starts and stops at a single arbitrary point on the ridge. Ridge path segments may not be visible over their entire length due to image consistency-of-presentation problems or due to being truncated by the edge of the impression, and therefore one or both ends of a ridge segment may not end at points defined as minutiae.		
Field Min	n/a	Occur Min	3
Field Max	n/a	Occur Max	99
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeImageRidgePathRepresentation	Cardinality	0..1
XML Level 3	biom_1:MinutiaeRidgePathSegment	Cardinality	1..*
XML Level 4	biom_1:ImageSegmentVertex(3...99)/biom_1:ImageLocationHorizontalCoordinateMeasure + biom_1:ImageLocationVerticalCoordinateMeasure(1....1)	Cardinality	3..99
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.373_0**EFS Ridge Path Segments***Subfields: Repeating sets of information items*

Mnemonic	RPS_0	Conditionality	M↑
		Status	New - Active
Description	This optional field contains an alternate representation of the same skeletonized image data contained in Field 9.372: EFS skeletonized image / SIM. Each ridge path segment is saved as an open path (ordered set of vertices). Multiple segments may be included in this field. Incipient ridges, dots, ridge discontinuities, and protrusions are not included in the ridge path representation. Each skeletonized ridge segment is stored as a separate subfield. Each endpoint of a ridge segment is either shared by three ridge segments (at a bifurcation) or is unique to a single ridge segment (at a ridge ending). Each ridge path segment (if completely visible) is the portion of a ridge that connects two minutiae, so each ridge path segment starts and stops either where the ridge intersects another ridge path segment (a bifurcation) or ends (a ridge ending). In the infrequent case in which a ridge segment forms a complete loop back on itself without intersecting another ridge segment (such as near the core of some plain whorls or central pocket loops), the ridge path starts and stops at a single arbitrary point on the ridge. Ridge path segments may not be visible over their entire length due to image consistency-of-presentation problems or due to being truncated by the edge of the impression, and therefore one or both ends of a ridge segment may not end at points defined as minutiae.		
Field Min	7	Occur Min	3
Field Max	1188	Occur Max	100
Char Types	NS	Special Chars	Comma and Dash
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:MinutiaeImageRidgePathRepresentation	Cardinality	0..2
XML Level 3	biom_1:MinutiaeRidgePathSegment	Cardinality	1..*
XML Level 4	biom_1:ImageSegmentVertex(3...100)/biom_1:ImageLocationHorizontalCoordinateMeasure + biom_1:ImageLocationVerticalCoordinateMeasure(1...1)	Cardinality	3..100
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.38**EFS Temporary Lines**

Mnemonic	TPL	Conditionality	0
		Status	Active
Description	This field is used by a latent examiner to annotate a friction ridge image with temporary lines, generally for use as reference points in making a comparison. These lines are solely for the individual examiner's use and reference – there are no implied semantics through the use of this field. This field has subfields, each of which describes a line segment.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:EFSTemporaryLine	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.380_0

EFS Temporary Lines

Subfields: Repeating sets of information items

Mnemonic	TPL_0			Conditionality	M↑		
				Status	New - Active		
Description	This field is used by a latent examiner to annotate a friction ridge image with temporary lines, generally for use as reference points in making a comparison. These lines are solely for the individual examiner's use and reference – there are no implied semantics through the use of this field. This field has subfields, each of which describes a line segment.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	100		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSTemporaryLine				Cardinality	0..100	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.380_1

EFS Temporary Lines

X Coordinate Point A

Mnemonic	TXA			Conditionality	M↑		
				Status	Active		
Description	This information item is expressed in units of 10 micrometers (0.01 mm).						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	0 <= TXA < HLL; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSTemporaryLine				Cardinality	0..100	
XML Level 3	biom_1:ImageLocationHorizontalCoordinateMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.380_2

EFS Temporary Lines

Y Coordinate Point A

Mnemonic	TYA			Conditionality	M↑		
				Status	Active		
Description	This information item is expressed in units of 10 micrometers (0.01 mm).						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	0 <= TYA < VLL; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSTemporaryLine				Cardinality	0..100	
XML Level 3	biom_1:ImageLocationVerticalCoordinateMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.380_3

EFS Temporary Lines

X Coordinate Point B

Mnemonic	TXB			Conditionality	M↑		
				Status	Active		
Description	This information item is expressed in units of 10 micrometers (0.01 mm).						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	0 <= TXB < HLL; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSTemporaryLine				Cardinality	0..100	
XML Level 3	biom_1:ImageLocationHorizontalCoordinateMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.380_4

EFS Temporary Lines

Y Coordinate Point B

Mnemonic	TYB			Conditionality	M↑		
				Status	Active		
Description	This information item is expressed in units of 10 micrometers (0.01 mm).						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	0 <= TYB < VLL; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSTemporaryLine				Cardinality	0..100	
XML Level 3	biom_1:ImageLocationVerticalCoordinateMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.380_5

EFS Temporary Lines

Line Color

Mnemonic	TLC			Conditionality	M↑		
				Status	Active		
Description	This information item is an RGB color value expressed as a hexadecimal number. There shall be a total of 6 hexadecimal characters, with leading zeros where applicable.						
Field Min	1			Occur Min	1		
Field Max	6			Occur Max	1		
Char Types	H			Special Chars	none		
Format	n/a			Constraints	000000 <= TLC <= FFFFFFFF		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSTemporaryLine				Cardinality	0..100	
XML Level 3	biom_1:FeatureLineColorValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.380_6

EFS Temporary Lines

Line Thickness

Mnemonic	TLT	Conditionality	M↑
		Status	Active
Description	This information item is expressed as a positive integer. Thickness is expressed in units of 0.01 mm. Any value from and including 1 through and including 99 is acceptable; suggested values are 3 (thin); 6 (medium); 9 (thick), and 15 (bold).		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	1 <= TLT <= 999; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:EFSTemporaryLine	Cardinality	0..100
XML Level 3	biom_1:FeatureLineThicknessValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.381

EFS Feature Color

Mnemonic	FCC	Conditionality	O
		Status	Active
Description	This field enables a latent print examiner to annotate individual features with color for display and / or comment. It consists of multiple subfields, each containing four information items. The first two information items are mandatory. One or both of the third or fourth information items shall be present in each subfield.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:EFSFeatureColor	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.381_0

EFS Feature Color

Subfields: Repeating sets of information items

Mnemonic	FCC_0			Conditionality	M↑		
				Status	New - Active		
Description	This field enables a latent print examiner to annotate individual features with color for display and / or comment. It consists of multiple subfields, each containing four information items. The first two information items are mandatory. One or both of the third or fourth information items shall be present in each subfield.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1000		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSFeatureColor				Cardinality	0..1000	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.381_1

EFS Feature Color

Feature - Field Number

Mnemonic	FTF			Conditionality	M↑		
				Status	Active		
Description	This information item indicates the field which is annotated with color for display and / or comment. See Look Up Codes for valid values.						
Field Min	3			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	none		
Format	n/a			Constraints	FTF = 320, 321, 324, 331, 340, 341, 342, 343, 345, 373		
Code List	EFS CORRESPONDING FIELD NUMBER CODES						
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSFeatureColor				Cardinality	0..1000	
XML Level 3	biom_1:FeatureColorFieldReferencedCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.381_2

EFS Feature Color

Feature - Field Occurrence

Mnemonic	FTO	Conditionality	M↑
		Status	Active
Description	This information item indicates which repeating subfield of the specified field the label is applied to. Occurrences are numbered starting with 1 (1-based index, not a 0-based index).		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	none
Format	n/a	Constraints	1 <= FTO <= 999; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:EFSFeatureColor	Cardinality	0..1000
XML Level 3	biom_1:FeatureColorFieldOccurrenceReferenced	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.381_3

EFS Feature Color

Feature- Color

Mnemonic	FTC	Conditionality	D
		Status	Active
Description	This information item is an RGB color value expressed as a hexadecimal number. There shall be a total of 6 hexadecimal characters, with leading zeros where applicable.		
Field Min	6	Occur Min	0
Field Max	6	Occur Max	1
Char Types	H	Special Chars	none
Format	n/a	Constraints	000000 <= TLC <= FFFFFFFF
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ExtendedFeatureSetMinutiae	Cardinality	0...1
XML Level 2	biom_1:EFSFeatureColor	Cardinality	0..1000
XML Level 3	biom_1:FeatureColorHexidecimalValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Extended Feature Set)

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9.381_4

EFS Feature Color

Feature - Comment

Mnemonic	COM			Conditionality	D		
				Status	Active		
Description	This information item allows a free text comment or description to be provided by the examiner about the referenced field and subfield in this instance of a Type-9 record.						
Field Min	1			Occur Min	0		
Field Max	1000			Occur Max	1		
Char Types	U			Special Chars	none		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ExtendedFeatureSetMinutiae				Cardinality	0...1	
XML Level 2	biom_1:EFSFeatureColor				Cardinality	0..1000	
XML Level 3	biom_1:FeatureColorCommentText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

9.901

Universal Latent Annotation

Mnemonic	ULA			Conditionality	O		
				Status	Active		
Description	This optional field is used to store annotation, logging, or processing information associated with the FBI-developed Universal Latent Workstation (ULW) or compatible software. If present, this text field shall consist of one or more entries, each with up to 300 characters that describe a single processing step. Each entry shall begin with the date and time followed by a hyphen encoded as: "{M}M/{D}D/YYYY {h}h:mm:ss {AM PM}" The remainder of the entry shall contain an unformatted text string describing a process or procedure applied to the fingerprint, palmprint, or plantar print associated with this Type-9 record. Additional entries may be included, each describing a subsequent processing step.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:MinutiaeUniversalLatentWorkstationAnnotationText				Cardinality	0..*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Common)

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9.901_0

Universal Latent Annotation

Subfields: Repeating sets of information items

Mnemonic	ULA_0			Conditionality	M ↑		
				Status	New - Active		
Description	This optional field is used to store annotation, logging, or processing information associated with the FBI-developed Universal Latent Workstation (ULW) or compatible software. If present, this text field shall consist of one or more entries, each with up to 300 characters that describe a single processing step. Each entry shall begin with the date and time followed by a hyphen encoded as: "{M}M/{D}D/YYYY {h}h:mm:ss {AM PM}" The remainder of the entry shall contain an unformatted text string describing a process or procedure applied to the fingerprint, palmprint, or plantar print associated with this Type-9 record. Additional entries may be included, each describing a subsequent processing step.						
Field Min	22			Occur Min	0		
Field Max	300			Occur Max	*		
Char Types	ANS			Special Chars	none		
Format	{M}M/{D}D/YYYY {h}h:mm:ss {AM PM} - <free form text>			Constraints	date concatenated with text		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:MinutiaeUniversalLatentWorkstationAnnotationText				Cardinality	0..*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.902

Annotated Information

Mnemonic	ANN			Conditionality	0		
				Status	Active		
Description	This optional field is used to store annotation, logging, or processing information associated with one or more processing algorithms, processes, or latent workstations (other than the FBI-developed ULW). If present, this text shall consist of one or more subfields comprised of a set of information items. Four mandatory items comprise a subfield.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ProcessAnnotation				Cardinality	0.1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Common)

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9.902_0

Annotated Information

Subfields: Repeating sets of information items

Mnemonic	ANN_0			Conditionality	M↑		
				Status	New - Active		
Description	This optional field is used to store annotation, logging, or processing information associated with one or more processing algorithms, processes, or latent workstations (other than the FBI-developed ULW). If present, this text shall consist of one or more subfields comprised of a set of information items. Four mandatory items comprise a subfield.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ProcessAnnotation				Cardinality	0..*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.902_1

Annotated Information

Greenwich Mean Time

Mnemonic	GMT			Conditionality	M↑		
				Status	Active		
Description	This information item is the Greenwich Mean Time (GMT) when the processing occurred. The data is formatted as YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. Time (GMT) units. This time is independent of the actual time zone where the time and date is recorded.						
Field Min	15			Occur Min	1		
Field Max	15			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding			Constraints	Dependent upon encoding		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom_1:ProcessUTCDate/nc:DateTime				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Common)

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9.902_2

Annotated Information

Processing Algorithm Name / Version

Mnemonic	NAV			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain text identifying the name and version of the processing algorithm, application, procedure, or workstation.						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom_1:ProcessName				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.902_3

Annotated Information

Algorithm Owner

Mnemonic	OWN			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain an unformatted text string of up to 64 characters with the contact information for the organization that owns the processing algorithm or latent workstation. Where there is no 'algorithm owner,' enter N/A.						
Field Min	1			Occur Min	1		
Field Max	64			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-9)						
XML Level 1	biom_1:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom_1:ProcessOwnerText				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Common)

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9.902_4

Annotated Information

Process Description

Mnemonic	PRO	Conditionality	M↑
		Status	Active
Description	This information item field shall contain text describing a process or procedure applied to the sample in this Type-9 record.		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:ProcessAnnotation	Cardinality	0..*
XML Level 2	biom_1:ProcessDescriptionText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

9.903

Device Unique Identifier

Mnemonic	DUI	Conditionality	0
		Status	Active
Description	The DUI shall contain a string uniquely identifying the device or source of the data. This field shall be one of the following: a Host PC MAC address (identified by the first character "M"), a Host PC processor ID (identified by the first character "P").		
Field Min	13	Occur Min	0
Field Max	16	Occur Max	1
Char Types	ANS	Special Chars	Any
Format	n/a	Constraints	First character = M or P
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:BiometricCaptureDetail	Cardinality	0...1
XML Level 2	biom_1:CaptureDeviceIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Common)

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9.904

Make/Model/Serial Number

Mnemonic	MMS	Conditionality	O
		Status	Active
Description	The MMS contains the make, model and serial number for the capture device. It shall consist of three information items. Each information item shall be 1 to 50 characters. Unknown information may be indicated with the value "0." Any or all information items may indicate that information is unknown with the value "0".		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:BiometricCaptureDetail	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

9.904_1

Make/Model/Serial Number

Make

Mnemonic	MAK	Conditionality	M↑
		Status	Active
Description	The name of the manufacturer for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	"0" = Unknown
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:BiometricCaptureDetail	Cardinality	0..1
XML Level 2	biom_1:CaptureDeviceMakeText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-9 Minutiae Data Record (Common)

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9.904_2

Make/Model/Serial Number

Model

Mnemonic	MOD	Conditionality	M↑
		Status	Active
Description	The model number for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	"0" = Unknown
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:BiometricCaptureDetail	Cardinality	0...1
XML Level 2	biom_1:CaptureDeviceModelText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

9.904_3

Make/Model/Serial Number

Serial Number

Mnemonic	SER	Conditionality	M↑
		Status	Active
Description	The serial number for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	"0" = Unknown
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-9)		
XML Level 1	biom_1:BiometricCaptureDetail	Cardinality	0 1
XML Level 2	biom_1:CaptureDeviceSerialNumberText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-10: Photographic Body Part Imagery (including Face and S

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10.001

Record Header

Mnemonic	LEN	Conditionality	M
		Status	Active
Description	The record header appears as the first field (xx.001) in each Record Type. It contains information particular to the encoding format chosen, in order to enable proper reading of the record. In Traditional encoding, this field contains the record length in bytes (including all information separators). In NIEM-conformant XML encoding, this field contains the RecordCategoryCode, which is the numeric representation of the Record Type.		
Field Min	T = 4; X = 1	Occur Min	1
Field Max	T = 8; X = 2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	nist-itl:RecordCategoryCode	Cardinality	1...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.002

Information Designation Character

Mnemonic	IDC	Conditionality	M
		Status	Active
Description	Each of the records present in a transaction, with the exception of the Type-1 record, shall include a field (xx.002) containing the information designation character / IDC. The value of the IDC shall be a sequentially assigned positive integer starting from zero and incremented by one up to a maximum of 99. IDC references are stated in Type-1 Field 1.003 Transaction content / CNT and shall be used to relate information items. Two or more records may share a single IDC solely to identify and link together records that pertain to different representations of the same biometric trait.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= IDC <= 99; integer
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	nist-itl:ImageReferenceIdentification/nc:IdentificationID	Cardinality	1...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-10: Photographic Body Part Imagery (including Face and S

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10.003

Image Type

Mnemonic	IMT	Conditionality	M
		Status	Active
Description	Indicate the type of image contained in the Type-10 record. Note that patterned injuries may be on any part of the body. Patterned injuries are not treated as a separate image type.		
Field Min	4	Occur Min	1
Field Max	11	Occur Max	1
Char Types	AS	Special Chars	Blank, Hyphen
Format	n/a	Constraints	see Look Up Codes
Code List	TYPE 10 IMAGE TYPES		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:BiometricCaptureType	Cardinality	1...1
XML Level 2	(ITL)biom:ImageCategoryCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.004

Source Agency

Mnemonic	SRC	Conditionality	M
		Status	Active
Description	This is the identifier of the agency that actually created the record and supplied the information contained in it.		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage/(ITL)biom:ImageCaptureDetail or (ITL)biom:PhysicalFeatureImage/(ITL)biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	(ITL)biom:CaptureOrganization	Cardinality	1..1
XML Level 3	nc:OrganizationIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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10.005

Photo Capture Date

Mnemonic	PHD	Conditionality	M
		Status	Active
Description	This mandatory field shall contain the date that the image contained in the record was captured.		
Field Min	Dependent on encoding	Occur Min	1
Field Max	Dependent on encoding	Occur Max	1
Char Types	N	Special Chars	None
Format	YYYYMMDD	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage/(ITL)biom:ImageCaptureDetail or (ITL)biom:PhysicalFeatureImage/(ITL)biom:ImageCaptureDetail	Cardinality	1..1
XML Level 2	(ITL)biom:CaptureDate/nc:Date	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.006

Horizontal Line Length

Mnemonic	HLL	Conditionality	M
		Status	Active
Description	HLL defines the number of pixels contained on a single horizontal line of the image. The maximum horizontal size is limited to 65,535 pixels in Record Types-4 and 8, and to 99,999 for other record types. The minimum value is 10 pixels. The total image size (HLL times VLL) must be able to be accommodated in Field xx.001 for Traditional encoding.		
Field Min	2	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	10 <= HLL <= 99999; positive integer
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1..1
XML Level 2	(ITL)biom:ImageHorizontalLineLengthPixelQuantity	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.007

Vertical Line Length

Mnemonic	VLL	Conditionality	M
		Status	Active
Description	VLL defines the number of horizontal lines contained in the image. The maximum vertical size is limited to 65,535 pixels in Record Types-4 and 8, and to 99,999 for other record types. The minimum value is 10 pixels.		
Field Min	2	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	10 <= HLL <= 99999; positive integer
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:ImageVerticalLineLengthPixelQuantity	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.008

Scale Units

Mnemonic	SLC	Conditionality	M
		Status	Active
Description	The image sampling frequency (pixel density). A value of "1" shall indicate pixels per inch. A value of "2" shall indicate pixels per centimeter. A value of "0" in this field indicates that no scale is provided, and the quotient of THPS/TVPS shall provide the pixel aspect ratio.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= SLC <= 2; integer
Code List	SCALE UNIT CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:ImageScaleUnitsCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.009

Transmitted Horizontal Pixel Scale

Mnemonic	THPS		Conditionality	M	
			Status	Active	
Description	This is the integer pixel density used in the horizontal direction of the image if SLC has a value of “1” or “2”. If SLC has a value of “0”, this information item shall contain the horizontal component of the pixel aspect ratio, up to 5 integer digits. For example, if the SLC value = 1, then the value of THPS could be ‘1000’ for a 1000 ppi sensor. When using certain formats, such as PNG, conversion from ppm (or other scales) may result in a decimal value. Since these fields require integer values, rounding should be used.				
Field Min	1		Occur Min	1	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	positive integer	
Code List					
Source	ANSI/NIST ITL 2011: (Update 2013)				
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage			Cardinality	1...1
XML Level 2	(ITL)biom:ImageHorizontalPixelDensityValue			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

10.01

Transmitted Vertical Pixel Scale

Mnemonic	TVPS		Conditionality	M	
			Status	Active	
Description	This is the integer pixel density used in the vertical direction of the image if SLC has a value of “1” or “2”. If SLC has a value of “0”, this information item shall contain the vertical component of the pixel aspect ratio, up to 5 integer digits. If SLC is 1 or 2, then TVPS shall equal THPS. When using certain formats, such as PNG, conversion from ppm (or other scales) may result in a decimal value. Since these fields require integer values, rounding up at .5 should be used.				
Field Min	1		Occur Min	1	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	positive integer	
Code List					
Source	ANSI/NIST ITL 2011: (Update 2013)				
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage			Cardinality	1...1
XML Level 2	(ITL)biom:ImageVerticalPixelDensityValue			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.011

Compression Algorithm

Mnemonic	CGA			Conditionality	M		
				Status	Active		
Description	This is a mandatory field. It shall specify the algorithm used to compress the transmitted color or grayscale images. For those images that are to be compressed, the method for the compression of facial and SMT images is specified by the baseline mode of the JPEG, JPEG 2000, or PNG algorithms. When Record Type-10 contains a facial image, the conditions described in ANSI NIST 2011: Update 2011 Annex E: E.6.1 Compression algorithm apply. For non-facial images contained in Record Type-10, Field 10.011: Compression algorithm / CGA may be set to any value in the COMPRESSION Code List except WSQ20. WSQ is not supported. The image shall be represented as an array of n rows by m columns by at least 8-bit pixels. Each pixel in a monochrome image shall be represented by eight or more bits. Color images shall be represented as a series of sequential samples of a red, green, and blue intensity for each pixel. The image shall be organized in row-major order, with the lowest address corresponding to the upper left corner of the image.						
Field Min	3			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	n/a			Constraints			
Code List	COMPRESSION CODES						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage				Cardinality	1..1	
XML Level 2	(ITL)biom:ImageCompressionAlgorithmText				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.012

Color Space

Mnemonic	CSP	Conditionality	M
		Status	Active
Description	Scanned images shall consist of nominal 24 to 48-bit RGB pixels. Color image data may be transmitted in either compressed or uncompressed form in certain record types. The transmission of uncompressed color images shall consist of RGB pixels, each component of which shall be quantized to at least 256 levels (8 bits). Grayscale image data may be transmitted in either compressed or uncompressed form. The transmission of uncompressed grayscale images shall consist of pixels, each of which shall normally be quantized to eight bits (256 gray levels) and held in a single unsigned byte. Black and white (binary representation) image data may be transmitted in either compressed or uncompressed form. The uncompressed binary images shall consist of pixels, each of which shall be quantized to one of two levels (binary representation). A value of zero shall be used to represent a white pixel and a value of one shall be used to represent a black pixel. See ANSI/NIST ITL 1-2011, section on Color, black-and-white, and grayscale image requirements for detail. To ensure that color images exchanged between differing systems can be correctly displayed or printed, images should be converted to the device-independent color space, sRGB, before compression or transmission to another system.		
Field Min	3	Occur Min	1
Field Max	4	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	COLOR SPACE CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:ImageColorSpaceCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.013

Subject Acquisition Profile

Mnemonic	SAP	Conditionality	D
		Status	Active
Description	To provide a general description of the criteria under which the facial image was captured. Typically, the higher the value, the stronger the acquisition requirements become. Therefore, in the text below, the SAP value will also be denoted as a "level". The Subject Acquisition Profile (SAP) is a mandatory ASCII text field when [Type-10 Image Type field 10.003] contains "FACE".		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	SUBJECT ACQUISITION PROFILES - FACE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageAcquisitionProfileCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.014**Face Image Bounding Box Coordinates in Full Image**

Mnemonic	FIP	Conditionality	D
		Status	Active
Description	If the face image (IMT='FACE') contains more than one face, or is not cropped to a "head only" or "head and shoulders" composition, this optional field contains offsets to the location of the bounding box of the face of the subject within a larger image. This field is only appropriate for images that do not comply with SAP Levels 30, 32, 40, 42, 50, 51 or 52, because those images shall be cropped to a "head only" or "head and shoulders" composition. If the image contains more than one face, the bounding box indicates the face of interest; all associated Type-10 fields are limited to the face defined by the bounding box in the larger image.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageBoundingSquare	Cardinality	0..1
XML Level 3	(ITL)biom:FacelImageBoundingSquare	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.014_1**Face Image Bounding Box Coordinates in Full Image****Left Horizontal Coordinate Value**

Mnemonic	LHC	Conditionality	M↑
		Status	Active
Description	It is the horizontal offset in pixels to the left edge of the bounding box relative to the origin positioned in the upper left corner of the image.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 < LHC < HLL
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageBoundingSquare	Cardinality	0..1
XML Level 3	(ITL)biom:SegmentLeftHorizontalCoordinateValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.014_2Face Image Bounding Box Coordinates in Full Image*Right Horizontal Coordinate Value*

Mnemonic	RHC	Conditionality	M↑
		Status	Active
Description	It is the horizontal offset in pixels to the right edge of the bounding box relative to the origin positioned in the upper left corner of the image.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 < RHC < HLL, RHC > LHC
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageBoundingSquare	Cardinality	0..1
XML Level 3	(ITL)biom:SegmentRightHorizontalCoordinateValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.014_3Face Image Bounding Box Coordinates in Full Image*Top Vertical Coordinate Value*

Mnemonic	TVC	Conditionality	M↑
		Status	Active
Description	The vertical offset (pixel counts down) to the top of the bounding box.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 < BVC < VLL, BVC > TVC
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageBoundingSquare	Cardinality	0..1
XML Level 3	(ITL)biom:SegmentTopVerticalCoordinateValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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10.014_4

Face Image Bounding Box Coordinates in Full Image

Bottom Vertical Coordinate Value

Mnemonic	BVC	Conditionality	M↑
		Status	Active
Description	It is the vertical offset from the upper left corner of the image down to the bottom of the bounding box. It is counted in pixels.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= BVC <= VLL
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageBoundingSquare	Cardinality	0..1
XML Level 3	(ITL)biom:SegmentBottomVerticalCoordinateValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.014_5

Face Image Bounding Box Coordinates in Full Image

Bounding Box Head Position Code

Mnemonic	BBC	Conditionality	O↑
		Status	Active
Description	The fifth information item of FIP is the bounding box type, indicating the contents of the bounding box. If this field is omitted, the default value shall be H (Head only).		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	n/a
Format	n/a	Constraints	see Look Up Codes
Code List	FACE BOUNDING CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageBoundingSquare	Cardinality	0..1
XML Level 3	(ITL)biom:FacelImageBoundingCategoryCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.015Face Image Path Coordinates in Full Image

Mnemonic	FPFI			Conditionality	0
				Status	Active
Description	If the face image (IMT = 'FACE') contains more than one face, or is not cropped to a “head only” or “head and shoulders” composition, this optional field contains offsets to the location of the path defining a region containing the face of the subject within a larger image. This field is only appropriate for images that do not comply with SAP Levels Levels 30, 32, 40, 42, 50, 51, or 52, because those images shall be cropped to a “head only” or “head and shoulders” composition.				
Field Min	n/a			Occur Min	0
Field Max	n/a			Occur Max	1
Char Types	n/a			Special Chars	n/a
Format	n/a			Constraints	
Code List					
Source	ANSI/NIST ITL 2011: (Update 2013)				
XML Level 1	(ITL)biom:FacelImage			Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageBoundary			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

10.015_1Face Image Path Coordinates in Full ImageBoundary Code

Mnemonic	BYC		Conditionality	M↑	
			Status	Active	
Description	Defines the shape of a boundary of a feature within an image.				
Field Min	1		Occur Min	1	
Field Max	1		Occur Max	1	
Char Types	A		Special Chars	n/a	
Format	n/a		Constraints	BYC = C, E or P	
Code List					
Source	ANSI/NIST ITL 2011: (Update 2013)				
XML Level 1	(ITL)biom:FacelImage			Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageBoundary			Cardinality	0..1
XML Level 3	(ITL)biom:FacelImageBoundaryShapeCode			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

10.015_2

Face Image Path Coordinates in Full Image

Number of Points

Mnemonic	NOP			Conditionality	M↑		
				Status	Active		
Description	Specifies the number of vertices.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	2 < NOP < 99, positive integer		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	(ITL)biom:FacelImageBoundary				Cardinality	0..1	
XML Level 3	(ITL)biom:PositionPolygonVertexQuantity				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.015_3

Face Image Path Coordinates in Full Image

Horizontal Point Offset

Mnemonic	HPO			Conditionality	M↑		
				Status	Active		
Description	The pixel counts to the right. The HPO and NPO information items are repeated as pairs, in order by point following the path – for a total of NOP pairs						
Field Min	1			Occur Min	2		
Field Max	5			Occur Max	NOP		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 < HPO < HLL, integer		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	(ITL)biom:FacelImageBoundary				Cardinality	0..1	
XML Level 3	(ITL)biom:PositionPolygonVertex				Cardinality	2..99	
XML Level 4	(ITL)biom:PositionHorizontalCoordinateValue				Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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10.015_4

Face Image Path Coordinates in Full Image

Vertical Point Offset

Mnemonic	VPO	Conditionality	M↑
		Status	Active
Description	The pixel counts down from the origin. The HPO and NPO information items are repeated as pairs, in order by point following the path – for a total of NOP pairs		
Field Min	1	Occur Min	2
Field Max	5	Occur Max	NOP
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 < VPO < VLL, non-negative
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageBoundary	Cardinality	0..1
XML Level 3	(ITL)biom:PositionPolygonVertex	Cardinality	2..99
XML Level 4	(ITL)biom:PositionVerticalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.016

Scanned Horizontal Pixel Scale

Mnemonic	SHPS	Conditionality	O
		Status	Active
Description	The horizontal pixel density used for the scanning of the original image / impression providing that the SLC field contains a "1" or "2". Otherwise, this shall indicate the horizontal component of the pixel aspect ratio, up to 5 integer digits. This field is used if the transmission pixel scale differs from the original image scale, as listed in Transmitted horizontal pixel scale / THPS.		
Field Min	1	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1		Cardinality	1...1
XML Level 2	(ITL)biom:CaptureHorizontalPixelDensityValue	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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10.017

Scanned Vertical Pixel Scale

Mnemonic	SVPS		Conditionality	0	
			Status	Active	
Description	The vertical pixel density used for the scanning of the original image / impression providing that the SLC field contains a “1” or “2”. Otherwise, this shall indicate the vertical component of the pixel aspect ratio, up to 5 integer digits. Note that density is directly related to resolution. If SLC is 1 or 2 and SHPS is entered, then SVPS shall equal SHPS.				
Field Min	1		Occur Min	0	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	positive integer	
Code List	FACE BOUNDING CODE				
Source	ANSI/NIST ITL 2011: (Update 2013)				
XML Level 1	(ITL)biom:FacelImage/(ITL)biom:ImageCaptureDetail or (ITL)biom:PhysicalFeatureImage/(ITL)biom:ImageCaptureDetail			Cardinality	1...1
XML Level 2	(ITL)biom:CaptureVerticalPixelDensityValue			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

10.018

Distortion

Mnemonic	DIST			Conditionality	0		
				Status	Active		
Description	This field contains the type of distortion, whether it is estimated or calculated, and its relative severity. This field contains three information items: Distortion Code (IDK), Distortion Field (IDK) and Distortion (DIS).						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	(ITL)biom:ImageDistortion				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.018_1Distortion*Distortion Code*

Mnemonic	IDK	Conditionality	M↑
		Status	Active
Description	The first information item of the Distortion (DIST) field is the distortion code.		
Field Min	6	Occur Min	1
Field Max	10	Occur Max	1
Char Types	A	Special Chars	n/a
Format	n/a	Constraints	IDK = Barrel or Inflated or Pincushion
Code List	DISTORTION CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:ImageDistortion	Cardinality	0..1
XML Level 3	(ITL)biom:ImageDistortionCategoryCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.018_2Distortion*Distortion Measurement Code*

Mnemonic	IDM	Conditionality	M↑
		Status	Active
Description	The second information item of the Distortion field (DIST) is an alphabetic code, which is a distortion measurement code (IDM), that indicates if the distortion is estimated "E" or calculated "C".		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	A	Special Chars	n/a
Format	n/a	Constraints	IDM = E or C
Code List	DISTORTION MEASUREMENT CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:ImageDistortion	Cardinality	0..1
XML Level 3	(ITL)biom:ImageDistortionMeasurementCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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10.018_3

Distortion

Distortion Severity Code

Mnemonic	DSC			Conditionality	M ↑		
				Status	Active		
Description	The third information item of the Distortion field (DIS) is the distortion severity code (DSC).						
Field Min	4			Occur Min	1		
Field Max	8			Occur Max	1		
Char Types	A			Special Chars	n/a		
Format	n/a			Constraints	DSC = Mild, Moderate or Severe		
Code List	DISTORTION SEVERITY CODE						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	(ITL)biom:ImageDistortion				Cardinality	0..1	
XML Level 3	(ITL)biom:ImageDistortionSeverityCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.019

Lighting Artifacts

Mnemonic	LAF			Conditionality	D		
				Status	Active		
Description	This optional field (contains the type of lighting artifacts found in the Type-10 image record. It is only applicable to face images (IMT = 'FACE'). Multiple lighting artifacts may be repeated as separate subfields.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	see Look Up Codes		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	biom:FacelImageLightingArtifactsCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.019_0

Lighting Artifacts

Subfields: Repeating values

Mnemonic	LAF_0			Conditionality	M ↑		
				Status	New - Active		
Description	This optional field (contains the type of lighting artifacts found in the Type-10 image record. It is only applicable to face images (IMT = 'FACE'). Multiple lighting artifacts may be repeated as separate subfields.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	3		
Char Types	A			Special Chars	n/a		
Format	n/a			Constraints	value = F, H or R		
Code List	LIGHTING ARTIFACTS CODE						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	biom:FacelImageLightingArtifactsCode				Cardinality	0..3	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.02

Subject Pose

Mnemonic	POS			Conditionality	D		
				Status	Active		
Description	This field is to be used for the exchange of facial image data. When included, this field shall contain one ASCII character code selected from [possible codes below] to describe the pose of the subject. For the angled pose entry "A", [10.025 SPA Pose Offset Angle field] shall contain the offset angle from the full face orientation. For the determined 3D pose entry "D", [Type-10 Subject Post Angles field] shall contain a set of determined 3D pose angles. Note that the offset angle in [Type-10 Pose Offset Angle field] is opposite from the yaw angle in [Type-10 Subject Post Angles field] as indicated by a minus sign. A value of POS = D does not imply that the image itself is a 3D image, such as a point cloud. 3D imagery shall be transmitted in a Type-22 record.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	see Look Up Codes		
Code List	SUBJECT POSE CODE						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	biom:FacelImageSubjectPoseCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.021

Pose Offset Angle

Mnemonic	POA	Conditionality	D
		Status	Active
Description	This shall only be used for the exchange of facial image data (IMT = "FACE"). It may be used if Field 10.020: Subject pose / POS contains an "A" to indicate an angled pose of the subject. The field shall not be used if the entry in POS is an "F", "R", "L" or "D". This field shall be omitted for a full face or a profile. This field specifies the pose direction of the subject at any possible orientation within a circle. Its value shall be to the nearest degree. The offset angle shall be measured from the full-face pose position and have a range of values from -180 degrees to +180 degrees. A positive angle is used to express the angular offset as the subject rotates from a full-face pose to their left (approaching a right profile). The allowed special characters are the plus sign and minus sign.		
Field Min	1	Occur Min	0
Field Max	4	Occur Max	1
Char Types	NS	Special Chars	Minus Sign, Plus Sign
Format	n/a	Constraints	-180 <= POA <= 180; integer
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	biom:FacelImagePoseOffsetAngleMeasure	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.023

Photo Acquisition Source

Mnemonic	PAS	Conditionality	D
		Status	Active
Description	This field shall specify the classification of the source of the image contained in this record. This field is required if the SAP entry [10.013 Subject Acquisition Profile field] is "40" or greater (IMT=FACE only). When included, this field shall contain an ASCII character code selected to describe the source of captured image data.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageAcquisitionSource	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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10.023_1

Photo Acquisition Source

Photo Attribute Code

Mnemonic	PAC			Conditionality	M ↑		
				Status	Active		
Description	The first information item in the Photo Acquisition Source (PAS) field shall contain an attribute code to describe the source of captured image data.						
Field Min	6			Occur Min	1		
Field Max	14			Occur Max	1		
Char Types	ANS			Special Chars	n/a		
Format	n/a			Constraints	see Look Up Codes		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	(ITL)biom:FacelImageAcquisitionSource				Cardinality	0..1	
XML Level 3	(ITL)biom:ImageAcquisitionSourceCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.023_2

Photo Acquisition Source

Vendor-Specific Description

Mnemonic	VSD			Conditionality	D		
				Status	Active		
Description	When “VENDOR” is specified in photo attribute code / PAC, a second free-format information item (vendorspecific description / VSD) may be entered with up to 64 characters to describe the vendor-specific source of the captured image or to enter unlisted or miscellaneous source attributes for the facial image.						
Field Min	1			Occur Min	0		
Field Max	64			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	(ITL)biom:FacelImageAcquisitionSource				Cardinality	0..1	
XML Level 3	(ITL)biom:CaptureSourceDescriptionText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.024

Subject Quality Score

Mnemonic	SQS			Conditionality	D		
				Status	Active		
Description	This optional field shall specify quality score data for facial images (IMT = 'FACE') stored in this record. There may be subfields for different quality scores and algorithms.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	(ITL)biom:ImageQuality				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.024_0

Subject Quality Score

Subfields: Repeating sets of information items

Mnemonic	SQS_0			Conditionality	M↑		
				Status	Active		
Description	This optional field shall specify quality score data for facial images (IMT = 'FACE') stored in this record. There may be subfields for different quality scores and algorithms.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	9		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	(ITL)biom:ImageQuality				Cardinality	0..9	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.024_1

Subject Quality Score

Quality Value

Mnemonic	QVU	Conditionality	M↑
		Status	Active
Description	This information item shall contain the integer image quality score between 0 and 100 (inclusive) assigned to the image data by a quality algorithm. Higher values indicate better quality. An entry of "255" shall indicate a failed attempt to calculate a quality score. An entry of "254" shall indicate that no attempt to calculate a quality score was made.		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 < QVU < 100, non-negative integer or QVU = 254 or 255
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:ImageQuality	Cardinality	0..9
XML Level 3	(ITL)biom:QualityValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.024_2

Subject Quality Score

Algorithm Vendor Identification

Mnemonic	QAV	Conditionality	M↑
		Status	Active
Description	This information item shall specify the ID of the vendor of the quality algorithm used to calculate the quality score. This 4-digit hex value is assigned by IBIA and expressed as four ASCII characters. The IBIA shall maintain the Vendor Registry of CBEFF Biometric Organizations that will map the value in this field to a registered organization.		
Field Min	4	Occur Min	1
Field Max	4	Occur Max	1
Char Types	H	Special Chars	None
Format	n/a	Constraints	0000 < QAV < FFFF
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:ImageQuality	Cardinality	0..9
XML Level 3	(ITL)biom:QualityAlgorithmVendorIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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10.024_3

Subject Quality Score

Algorithm Product Identification

Mnemonic	QAP			Conditionality	M↑		
				Status	Active		
Description	This information item shall specify a numeric product code assigned by the vendor of the quality algorithm, which may be registered with the IBIA, but it is not required to be registered. It indicates which of the vendor's algorithms was used in the calculation of the quality score. This field contains the ASCII representation of the integer product code and should be within the range 1 to 65535.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 < QAP < 65535, positive integer		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	(ITL)biom:ImageQuality				Cardinality	0..9	
XML Level 3	(ITL)biom:QualityAlgorithmProductIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.025

Subject Pose Angles

Mnemonic	SPA			Conditionality	D		
				Status	Active		
Description	This ASCII set shall be present when [10.020 Subject Pose field] (POS) contains a "D" to indicate a set of determined 3D pose angles of the same subject for a facial image (IMT = 'FACE'). When present, this information shall be entered as three or six information items. The first three items specify the pose of the subject estimated or measured at constrained possible orientations within a sphere. If this field is used, the first three are mandatory. Notes: ANSI/NIST ITL 1-2011: Update 2013 Subject Pose (POS) and subject pose angles (SPA) contains, additional information, details, and examples of the subject pose angles.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	(ITL)biom:FacelImage3DPoseAngle				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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10.025_1

Subject Pose Angles

Yaw Angle

Mnemonic	YAW			Conditionality	M↑		
				Status	Active		
Description	This information item is the Yaw angle (rotation about the vertical 'y' axis).						
Field Min	1			Occur Min	1		
Field Max	4			Occur Max	1		
Char Types	NS			Special Chars	Minus Sign		
Format	n/a			Constraints	-180 < YAW < 180, integer		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	(ITL)biom:FacelImage3DPoseAngle				Cardinality	0..1	
XML Level 3	(ITL)biom:PoseYawAngleMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.025_2

Subject Pose Angles

Pitch Angle

Mnemonic	PIT			Conditionality	M↑		
				Status	Active		
Description	This information item is the Pitch angle (rotation about 'x' horizontal axis).						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	NS			Special Chars	Minus Sign		
Format	n/a			Constraints	-90 < PIT < 90, integer		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	(ITL)biom:FacelImage3DPoseAngle				Cardinality	0..1	
XML Level 3	(ITL)biom:PosePitchAngleMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.025_3Subject Pose Angles*Roll Angle*

Mnemonic	ROL			Conditionality	M↑		
				Status	Active		
Description	This information Item is the Roll angle (rotation about the 'z' axis).						
Field Min	1			Occur Min	1		
Field Max	4			Occur Max	1		
Char Types	NS			Special Chars	Minus Sign		
Format	n/a			Constraints	180 < PIT < 180, integer		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	(ITL)biom:FacelImage3DPoseAngle				Cardinality	0..1	
XML Level 3	(ITL)biom:PoseRollAngleMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.025_4Subject Pose Angles*Uncertainty in Degrees for Yaw*

Mnemonic	YAWU			Conditionality	O↑		
				Status	Active		
Description	The measure of uncertainty concerning the rotation about the vertical or Y axis of the pose.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 < YAWU < 90, non-negative, integer		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	(ITL)biom:FacelImage3DPoseAngle				Cardinality	0..1	
XML Level 3	(ITL)biom:PoseYawUncertaintyValue				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.025_5

Subject Pose Angles

Uncertainty in Degrees for Pitch

Mnemonic	PITU			Conditionality	0↑		
				Status	New - Active		
Description	The fifth information item is the uncertainty in degrees for pitch / PITU.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 < PITU < 90, non-negative, integer		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	(ITL)biom:FacelImage3DPoseAngle				Cardinality	0..1	
XML Level 3	(ITL)biom:PosePitchUncertaintyValue				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.025_6

Subject Pose Angles

Uncertainty in Degrees for Roll

Mnemonic	ROLU			Conditionality	0↑		
				Status	Active		
Description	The measure of uncertainty concerning the rotation about the Z axis of the pose.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 < ROLU < 90, non-negative, integer		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	(ITL)biom:FacelImage3DPoseAngle				Cardinality	0..1	
XML Level 3	(ITL)biom:PoseRollUncertaintyValue				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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10.026

Subject Facial Description

Mnemonic	SXS	Conditionality	D
		Status	Active
Description	This field is mandatory if the SAP entry for a facial image (Field 10.013: Subject acquisition profile / SAP) is "30" or greater. (IMT = FACE only). In other cases, this field is optional for facial images. When present, it shall describe attributes associated with the subject's captured facial image. This version maintains the upper limit of 50 repeating subfields for all encodings from the 2007 version. (The 2008 version was unrestricted). In the 2007 version, the minimum character count for this was listed as 5; however, there was an entry of "HAT" which has 3 characters. Thus, the minimum character count in this version is set at 3.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	D	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageDescription	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.026_0

Subject Facial Description

Subfields: repeating values

Mnemonic	SXS_0	Conditionality	M↑
		Status	New - Active
Description	This field is mandatory if the SAP entry for a facial image (Field 10.013: Subject acquisition profile / SAP) is "30" or greater. (IMT = FACE only). In other cases, this field is optional for facial images. When present, it shall describe attributes associated with the subject's captured facial image. This version maintains the upper limit of 50 repeating subfields for all encodings from the 2007 version. (The 2008 version was unrestricted). In the 2007 version, the minimum character count for this was listed as 5; however, there was an entry of "HAT" which has 3 characters. Thus, the minimum character count in this version is set at 3.		
Field Min	3	Occur Min	1
Field Max	20	Occur Max	50
Char Types	AS	Special Chars	n/a
Format	n/a	Constraints	see Look Up Codes
Code List	SUBJECT FACIAL DESCRIPTION CODES		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageDescription	Cardinality	0..50
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

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10.027

Subject Eye Color - Repeating values.

Mnemonic	SEC			Conditionality	D		
				Status	Active		
Description	Describe the eye color of the subject as seen in the photograph. If unusual or unnatural such as may be the case when colored contact lenses are present and the “real” eye color cannot be ascertained, then the color should be labeled as “XXX”. Eye color attributes and attribute codes are given by possible codes.						
Field Min	3			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	see Look Up Codes		
Code List	ALPHA EYE COLOR CODE						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1..1	
XML Level 2	(ITL)biom:FacelImageEyeColorAttributeCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.028

Subject Hair Color

Mnemonic	SHC			Conditionality	D		
				Status	Active		
Description	Describes the hair color of the subject as seen in the photograph.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1..1	
XML Level 2	(ITL)biom:FacelImageHairColorAttributeCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Subject Hair Color

Subfields: Repeating values

Mnemonic	SHC_0			Conditionality	M↑		
				Status	New - Active		
Description	Describes the hair color of the subject as seen in the photograph.						
Field Min	3			Occur Min	1		
Field Max	3			Occur Max	2		
Char Types	A			Special Chars	n/a		
Format	n/a			Constraints	see Look Up Codes		
Code List	HAIR COLOR						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1..1	
XML Level 2	(ITL)biom:FacelImageHairColorAttributeCode				Cardinality	0..2	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.029

2D Facial Feature Points

Mnemonic	FFP		Conditionality	M ↑	
			Status	Active	
Description	The ASCII set shall be used for the exchange of facial image data. When present, it shall describe special attributes of manually or automatically detected facial feature points of the captured facial image. The optional field shall be used for the exchange of facial (IMT = 'FACE', 'HEAD', 'LIP', 'EXTRAORAL' and 'CONDITION') feature points or landmarks. This information shall be entered as a four-information item feature point block in a repeating subfield.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints		
Code List					
Source	ANSI/NIST ITL 2011: (Update 2013)				
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage			Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageFeaturePoint			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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2D Facial Feature Points

Subfields: Repeating sets of information items

Mnemonic	FFP_0			Conditionality	M↑		
				Status	Active		
Description	The ASCII set shall be used for the exchange of facial image data. When present, it shall describe special attributes of manually or automatically detected facial feature points of the captured facial image. The optional field shall be used for the exchange of facial (IMT = 'FACE', 'HEAD', 'LIP', 'EXTRAORAL' and 'CONDITION') feature points or landmarks. This information shall be entered as a four-information item feature point block in a repeating subfield.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	88		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	(ITL)biom:FacelImageFeaturePoint				Cardinality	0..88	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.029_1

2D Facial Feature Points

Feature Point Type

Mnemonic	FPT			Conditionality	M↑		
				Status	Active		
Description	The first information item of 2D Facial Feature Points (FFP) or 3D Facial Feature Points (3DF) is a one character value. It is mandatory. It shall be either: 1 = Denoting an MPEG4 Feature point, or 2 = Anthropometric landmark.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	FPT = 1 or 2		
Code List	FEATURE POINT TYPE CODE						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	(ITL)biom:FacelImageFeaturePoint				Cardinality	0..88	
XML Level 3	(ITL)biom:FeaturePointCategoryCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.029_22D Facial Feature Points*Feature Point Code*

Mnemonic	FPC	Conditionality	M↑
		Status	Active
Description	If FPT is 1, this information item shall be "A.B" with A and B defined. If FPT is 2, the codes are entered as shown in the Feature Point ID column of the Feature Point ID Code table.		
Field Min	3	Occur Min	1
Field Max	5	Occur Max	1
Char Types	ANS	Special Chars	Period
Format	n/a	Constraints	Format: N.N, N.NN, NN.N, NN.NN, a, aa, aaa or aaaa
Code List	FEATURE POINT ID CODE / EYE AND NOSTRIL CENTER FEATURE POINT CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageFeaturePoint	Cardinality	0..88
XML Level 3	(ITL)biom:FeaturePointIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.029_32D Facial Feature Points*X Coordinate*

Mnemonic	HCX	Conditionality	M↑
		Status	Active
Description	The third information item of the 2D Facial Feature Points (FFD) or 3D Facial Feature Points (3DF). It is 1 to 5 characters, denoting the pixel count horizontally to the right from the upper left pixel, which is set to 0.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 < HCX < HLL, non-negative
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:FacelImageFeaturePoint	Cardinality	0..88
XML Level 3	(ITL)biom:FeaturePointHorizontalCoordinateValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.029_4

2D Facial Feature Points

Y Coordinate

Mnemonic	HCY			Conditionality	M ↑		
				Status	Active		
Description	The fourth information item of the 2D Facial Feature Points (FFD) or 3D Facial Feature Points (3DF). It is 1 to 5 characters, denoting the pixel count vertically down from the upper left pixel, which is set to 0.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 < HCY < VLL, non-negative		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	(ITL)biom:FacelImageFeaturePoint				Cardinality	0..88	
XML Level 3	(ITL)biom:FeaturePointVerticalCoordinateValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.03

Device Monitoring Mode

Mnemonic	DMM			Conditionality	0		
				Status	Active		
Description	This field provides information describing the human monitoring operation of the image capture device, and will contain an entry from the Device Monitoring Mode Code list to indicate the monitoring mode of the biometric sample capture device.						
Field Min	7			Occur Min	0		
Field Max	10			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	see Look Up Codes		
Code List	CAPTURE DEVICE MONITORING MODE CODE						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:ImageCapture				Cardinality	1..1	
XML Level 2	(ITL)biom:CaptureDeviceMonitoringModeCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.031

Tiered Markup Collection

Mnemonic	TMC			Conditionality	D		
				Status	Active		
Description	This optional field describes the specific facial (IMT = 'FACE') feature points contained in Field 10.029: 2D Facial feature points / FFP and if level 5, contours shall be contained in Field 10.033: Feature contours / FEC.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	integer; see Look Up Codes		
Code List	TIERED MARKUP COLLECTION CODE						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage/(ITL)biom:ImageCaptureDetail or (ITL)biom:PhysicalFeatureImage/(ITL)biom:ImageCaptureDetail				Cardinality	1...1	
XML Level 2	biom:FacelImageFeaturePointTierCode / biom:FacelImageFeaturePointTierNumeric				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.032

3D Facial Feature Points

Mnemonic	3DF			Conditionality	D		
				Status	Active		
Description	Each subfield refers to a specific contour on the image and contains a minimum of three points. This field shall appear if TMC = 5, otherwise, it is optional.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	biom:FacelImage3DFeaturePoint				Cardinality	1..88	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.032_0**3D Facial Feature Points***Subfields: Repeating sets of information items*

Mnemonic	FFP_0			Conditionality	M↑		
				Status	New - Active		
Description	Each subfield refers to a specific contour on the image and contains a minimum of three points. This field shall appear if TMC = 5, otherwise, it is optional.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	88		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	biom:FacelImage3DFeaturePoint				Cardinality	1..88	
XML Level 3	biom:FeaturePointHorizontalCoordinateValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.032_1**3D Facial Feature Points***Feature Point Type*

Mnemonic	FPT			Conditionality	M↑		
				Status	Active		
Description	The first information item of 2D Facial Feature Points (FFP) or 3D Facial Feature Points (3DF) is a one character value. It is mandatory. It shall be either: 1 = Denoting an MPEG4 Feature point, or 2 = Anthropometric landmark. The allowed special character is a period. If FPT is 2, the codes are entered as shown in the “Feature Point ID” column of Table 65. Note that this entry is one to four alphabetic characters.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	FPT = 1 or 2		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	biom:FacelImage3DFeaturePoint				Cardinality	1..88	
XML Level 3	biom:FeaturePointCategoryCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.032_2

3D Facial Feature Points

Feature Point Code

Mnemonic	FPC	Conditionality	M↑
		Status	Active
Description	The second information item, feature point code / FPC is 3 to 5 characters. If FPT is 1, this information item shall be "A.B" with A and B defined ANSI/NIST ITL 1-2011: Update 2013. If FPT is 2, the codes are entered as shown in the "Feature Point ID" column Feature Point ID Code and Eye and Nostril Center Feature Point Code lists.		
Field Min	3	Occur Min	1
Field Max	5	Occur Max	1
Char Types	ANS	Special Chars	Period
Format	N.N, N.NN, NN.N, NN.NN, a, aa, aaa or aaaa	Constraints	Format: N.N, N.NN, NN.N, NN.NN, a, aa, aaa or aaaa
Code List	FEATURE POINT ID CODE / EYE AND NOSTRIL CENTER FEATURE POINT CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1..1
XML Level 2	biom:FacelImage3DFeaturePoint	Cardinality	1..88
XML Level 3	biom:FeaturePointIdentification/nc:IdentificationType	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.032_3

3D Facial Feature Points

X Coordinate

Mnemonic	HCX	Conditionality	M↑
		Status	Active
Description	The third information item of the 2D Facial Feature Points (FFD) or 3D Facial Feature Points (3DF). It is 1 to 5 characters, denoting the pixel count horizontally to the right from the upper left pixel, which is set to 0.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 < HCX < HLL, non-negative, integer
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1..1
XML Level 2	biom:FacelImage3DFeaturePoint	Cardinality	1..88
XML Level 3	biom:FeaturePointHorizontalCoordinateValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.032_4

3D Facial Feature Points

Y Coordinate

Mnemonic	HCY			Conditionality	M ↑		
				Status	Active		
Description	The fourth information item of the 2D Facial Feature Points (FFD) or 3D Facial Feature Points (3DF). It is 1 to 5 characters, denoting the pixel count vertically down from the upper left pixel, which is set to 0.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 < HCY < VLL, non-negative, integer		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	biom:FaceImage3DFeaturePoint				Cardinality	1..88	
XML Level 3	biom:FeaturePointVerticalCoordinateValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.032_5

3D Facial Feature Points

Z Coordinate

Mnemonic	HCZ			Conditionality	M↑		
				Status	Active		
Description	The fifth information item of the 3D Facial Feature Points (3DF) field. It is 1 to 5 characters, denoting the pixel count from the X-Y plane, which is set to 0.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 < HCZ < 99999, nonnegative, integer		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1..1	
XML Level 2	biom:FacelImage3DFeaturePoint				Cardinality	1..88	
XML Level 3	biom:FeaturePointZCoordinateValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.033

Feature Contours

Mnemonic	FEC	Conditionality	D
		Status	Active
Description	Each subfield refers to a specific contour on the image and contains a minimum of three points. This field shall appear if TMC = 5. It is optional otherwise.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	biom:FacelImageContour	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.033_0

Feature Contours

Subfields: Repeating sets of information items

Mnemonic	FEC_0	Conditionality	M↑
		Status	New - Active
Description	Each subfield refers to a specific contour on the image and contains a minimum of three points. This field shall appear if TMC = 5. It is optional otherwise.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	12
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	biom:FacelImageContour	Cardinality	0..12
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.033_1

Feature Contours

Feature Contour Code

Mnemonic	FCC	Conditionality	M↑
		Status	Active
Description	The first information item of the Feature Contour (FEC).		
Field Min	4	Occur Min	1
Field Max	14	Occur Max	1
Char Types	A	Special Chars	n/a
Format	n/a	Constraints	see Look Up Codes
Code List	FEATURE CONTOUR CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	biom:FacelImageContour	Cardinality	0..12
XML Level 3	biom:FacelImageContourCategoryCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.033_2

Feature Contours

Number of Points

Mnemonic	NOP	Conditionality	M↑
		Status	Active
Description	Specifies the number of vertices.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	3 < NOP < 99
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	biom:FacelImageContour	Cardinality	0..12
XML Level 3	biom:PositionPolygonVertexQuantity	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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10.033_3

Feature Contours

Horizontal Point Offset

Mnemonic	HPO	Conditionality	M↑
		Status	Active
Description	The pixel counts to the right. The HPO and VPO information items are repeated as pairs, in order by point following the path, up to the final point - for a total of NOP pairs.		
Field Min	1	Occur Min	3
Field Max	5	Occur Max	NOP
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 < HPO < HLL
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	biom:FacelImageContour	Cardinality	0..12
XML Level 3	biom:PositionPolygonVertex	Cardinality	3..99
XML Level 4	biom:PositionHorizontalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.033_4

Feature Contours

Vertical Point Offset

Mnemonic	VPO	Conditionality	M↑
		Status	Active
Description	The pixel counts down from the origin. The HPO and VPO information items are repeated as pairs, in order by point following the path, up to the final point - for a total of NOP pairs.		
Field Min	1	Occur Min	3
Field Max	5	Occur Max	NOP
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 < VPO < VLL
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	biom:FacelImageContour	Cardinality	0..12
XML Level 3	biom:PositionPolygonVertex	Cardinality	3..99
XML Level 4	biom:PositionVerticalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.034

IMAGE CAPTURE DATE RANGE ESTIMATE

Mnemonic	ICDR	Conditionality	0
		Status	New - Active
Description	It is possible to enter only a year, month and/or day range, such as D5, meaning that the actual date of collection is estimated to be 5 days plus or minus from that specified in PHD. Leading zeros need not be entered.		
Field Min	3	Occur Min	0
Field Max	9	Occur Max	1
Char Types	AN	Special Chars	n/a
Format	YYMMDD	Constraints	Time measure indicator followed by 1 or 2 digits.
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage/(ITL)biom:ImageCaptureDetail or (ITL)biom:PhysicalFeatureImage/(ITL)biom:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom:ImageCaptureDateEstimateRange	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.038

Comment

Mnemonic	COM	Conditionality	0
		Status	Active
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.		
Field Min	1	Occur Min	0
Field Max	126	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage/(ITL)biom:ImageCaptureDetail or (ITL)biom:PhysicalFeatureImage/(ITL)biom:ImageCaptureDetail	Cardinality	1..1
XML Level 2	(ITL)biom:ImageCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-10: Photographic Body Part Imagery (including Face and S

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10.039

Type-10 Reference Number

Mnemonic	T10	Conditionality	D
		Status	Active
Description	Cheiloscopy image data / CID or dental visual image comparison descriptive text / VICD is present in Field 10.050: Dental visual image data information / VID. The same T10 is used when referring to a particular image. This field shall only be present if multiple Type-10 records in the transaction contain the same SMT or body part. It can be used for any image type specified in Field 10.003: Image type / IMT. T10 is a positive integer. The only requirement is that a value for T10 only links related images. An example would be to assign a value of 1 to two different Type-10 records, the first of which has an image of a tattoo over the entire chest of a male. A second image of a small portion of the tattoo on the chest showing a gang symbol is contained in another Type-10 with the same value of 1 for T10. No other Type-10 records (in this example) would have a value of 1 for T10. This is an optional field. It is used when several images cover either the entire scar, (needle) mark, tattoo (SMT) or portions of it. This field shall be present if lip print comparison descriptive text / LPCT is present in Field 10.049: The same T10 is used when referring to a particular image. This field shall only be present if multiple Type-10 records in the transaction contain the same SMT or body part.		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	1 <= T10 <= 255
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:PhysicalFeatureReferenceIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-10: Photographic Body Part Imagery (including Face and S

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10.04

NCIC SMT Code

Mnemonic	SMT	Conditionality	D
		Status	Active
Description	This field shall be used only when Field 10.003: Image type / IMT = "SCAR", "MARK", or "TATTOO". It is not used for other images. It is used to identify a general location of the captured scar, mark, tattoo, or other characteristic (including piercings) in an image. The contents of this field shall be from the NCIC code. The captured image may encompass an area larger than that specified by a single NCIC body part code for the particular image type. This situation may be accommodated by listing multiple NCIC codes, each in a separate subfield. In this case the primary code is listed first. There need not be more than one subfield. For the "marks" category, the NCIC manual lists the common locations for needle track marks. For other body part locations not listed under the "marks" category, use the body location codes listed for scars.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	None
Format	n/a	Constraints	Values from Annex D of ANSI/NIST ITL 1-2011 (Update 2013)
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:PhysicalFeatureNCICCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.040_0

NCIC SMT Code

Subfields: Repeating values

Mnemonic	SMT_0	Conditionality	M↑
		Status	New - Active
Description	This field shall be used only when Field 10.003: Image type / IMT = "SCAR", "MARK", or "TATTOO". It is not used for other images. It is used to identify a general location of the captured scar, mark, tattoo, or other characteristic (including piercings) in an image. The contents of this field shall be from the NCIC code. The captured image may encompass an area larger than that specified by a single NCIC body part code for the particular image type. This situation may be accommodated by listing multiple NCIC codes, each in a separate subfield. In this case the primary code is listed first. There need not be more than one subfield. For the "marks" category, the NCIC manual lists the common locations for needle track marks. For other body part locations not listed under the "marks" category, use the body location codes listed for scars.		
Field Min	3	Occur Min	1
Field Max	10	Occur Max	3
Char Types	AS	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:PhysicalFeatureNCICCode	Cardinality	0..3
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

10.041**SMT SIZE OR SIZE OF INJURY OR IDENTIFYING CHARACTERISTIC**

Mnemonic	SMS	Conditionality	D
		Status	Active
Description	This set shall contain the dimensions of the portion of image contained in this record (it may be the entire scar, mark, tattoo, injury or identifying characteristic). Each dimension shall be entered to the nearest centimeter.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:PhysicalFeatureSize	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.041_1**SMT SIZE OR SIZE OF INJURY OR IDENTIFYING CHARACTERISTIC***Height*

Mnemonic	HGT	Conditionality	M↑
		Status	Active
Description	The height of the scar, mark or tattoo in nearest centimeter.		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:PhysicalFeatureSize	Cardinality	1..1
XML Level 3	(ITL)biom:PhysicalFeatureHeightMeasure	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.041_2

SMT SIZE OR SIZE OF INJURY OR IDENTIFYING CHARACTERISTIC

Width

Mnemonic	WID			Conditionality	M↑		
				Status	Active		
Description	The width of the scar, mark or tattoo in the nearest centimeter.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	(ITL)biom:PhysicalFeatureSize				Cardinality	1..1	
XML Level 3	(ITL)biom:PhysicalFeatureWidthMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.042

SMT Descriptors

Mnemonic	SMD		Conditionality	M ↑	
			Status	Active	
Description	This field is used to describe the content of the SMT image to an extent greater than documented in Field 10.040: NCIC SMT code / SMT. It shall consist of one or more subfields. This version maintains the upper limit of 9 for all encodings. This field shall be used only when Field 10.003: Image type / IMT= “SCAR”, “MARK”, or “TATTOO”. An SMT image consisting of several parts or sub-images shall use subfields to fully describe the various parts or features found in the total image.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 2011: (Update 2013)				
XML Level 1	(ITL)biom:PhysicalFeatureImage			Cardinality	1...1
XML Level 2	(ITL)biom:PhysicalFeatureDescriptionDetail			Cardinality	0...1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.042_0

SMT Descriptors

Subfields: Repeating values

Mnemonic	SMD_0			Conditionality	M ↑		
				Status	New - Active		
Description	This field is used to describe the content of the SMT image to an extent greater than documented in Field 10.040: NCIC SMT code / SMT. It shall consist of one or more subfields. This version maintains the upper limit of 9 for all encodings. This field shall be used only when Field 10.003: Image type / IMT= “SCAR”, “MARK”, or “TATTOO”. An SMT image consisting of several parts or sub-images shall use subfields to fully describe the various parts or features found in the total image.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	9		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	(ITL)biom:PhysicalFeatureDescriptionDetail				Cardinality	0..9	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.042_1

SMT Descriptors

SMT code indicator

Mnemonic	SMI			Conditionality	M↑		
				Status	Active		
Description	This information item shall identify the source of the image as being a scar, a mark or a tattoo.						
Field Min	3			Occur Min	1		
Field Max	8			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints			
Code List	SMT DESCRIPTORS						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1..1	
XML Level 2	(ITL)biom:PhysicalFeatureDescriptionDetail				Cardinality	0..9	
XML Level 3	(ITL)biom:PhysicalFeatureCategoryCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.042_2

SMT Descriptors

Tattoo Class

Mnemonic	TAC	Conditionality	D
		Status	Active
Description	This information item shall be the general class code of tattoo chosen. For each general class of tattoo, there are several defined subclasses.		
Field Min	4	Occur Min	0
Field Max	8	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	
Code List	TATTOO CLASSES CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:PhysicalFeatureDescriptionDetail	Cardinality	0..9
XML Level 3	(ITL)biom:PhysicalFeatureClassCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.042_3

SMT Descriptors

Tattoo Subclass

Mnemonic	TSC	Conditionality	D
		Status	Active
Description	This information item of the subfield shall be the appropriate subclass code selected from the various subclasses of tattoos for each of the general classes.		
Field Min	3	Occur Min	0
Field Max	11	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	
Code List	TATTOO CLASSES CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:PhysicalFeatureDescriptionDetail	Cardinality	0..9
XML Level 3	(ITL)biom:PhysicalFeatureSubClassCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.042_4

SMT Descriptors

Tattoo Description

Mnemonic	TDS			Conditionality	D		
				Status	Active		
Description	This information item in the subfield shall be an ASCII text string that provides additional qualifiers to describe the image or portion of the image.						
Field Min	1			Occur Min	0		
Field Max	256			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1..1	
XML Level 2	(ITL)biom:PhysicalFeatureDescriptionDetail				Cardinality	0..9	
XML Level 3	(ITL)biom:PhysicalFeatureDescriptionText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.043

Tattoo Color

Mnemonic	COL		Conditionality	D	
			Status	Active	
Description	This field is optional, but it can only be used when Field 10.042: SMT descriptors / SMD is in the record. It shall contain one subfield corresponding to each subfield contained in Field 10.042: SMT descriptors / SMD. Each subfield shall contain up to 6 information items that state the color(s) of the tattoo or part of the tattoo. For each subfield entry, the first one shall be the predominant color. Additional colors may be entered as optional subsequent information items of the form tattoo color code 1 through tattoo code 6. There need not be more than one information item. This field can only be used when Field 10.042: SMT descriptors / SMD is in the record.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	D		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 2011: (Update 2013)				
XML Level 1	(ITL)biom:PhysicalFeatureImage			Cardinality	1...1
XML Level 2	(ITL)biom:PhysicalFeatureDescriptionDetail			Cardinality	0..9
XML Level 3	(ITL)biom:PhysicalFeatureColorDetail			Cardinality	0..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

10.043_0

Tattoo Color

Subfields: repeating values in the same order as those of SMD

Mnemonic	COL_0	Conditionality	M↑
		Status	New - Active
Description	This field is optional, but it can only be used when Field 10.042: SMT descriptors / SMD is in the record. It shall contain one subfield corresponding to each subfield contained in Field 10.042: SMT descriptors / SMD. Each subfield shall contain up to 6 information items that state the color(s) of the tattoo or part of the tattoo. For each subfield entry, the first one shall be the predominant color. Additional colors may be entered as optional subsequent information items of the form tattoo color code 1 through tattoo code 6. There need not be more than one information item.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	9
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:PhysicalFeatureDescriptionDetail	Cardinality	0..9
XML Level 3	(ITL)biom:PhysicalFeatureColorDetail	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.043_1

Tattoo Color

Tattoo Color Code 1

Mnemonic	TC1	Conditionality	O↑
		Status	Active
Description	This first information item is part of the Tattoo Color (COL) field. It lists the predominant color of the tattoo or part of the tattoo.		
Field Min	3	Occur Min	1
Field Max	7	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:PhysicalFeatureDescriptionDetail	Cardinality	0..9
XML Level 3	(ITL)biom:PhysicalFeatureColorDetail	Cardinality	0..1
XML Level 4	(ITL)biom:PhysicalFeaturePrimaryColorCode	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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10.043_2

Tattoo Color

Tattoo Color Code 2

Mnemonic	TC2			Conditionality	O↑		
				Status	Active		
Description	This second information item is part of the Tattoo Color (COL) field. It lists the additional color of the tattoo or part of the tattoo.						
Field Min	3			Occur Min	0		
Field Max	7			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	(ITL)biom:PhysicalFeatureDescriptionDetail				Cardinality	0..9	
XML Level 3	(ITL)biom:PhysicalFeatureColorDetail				Cardinality	0..1	
XML Level 4	(ITL)biom:PhysicalFeatureSecondaryColorCode				Cardinality	0..5	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.043_3

Tattoo Color

Tattoo Color Code 3

Mnemonic	TC3			Conditionality	O↑		
				Status	Active		
Description	This third information item is part of the Tattoo Color (COL) field. It lists the additional color of the tattoo or part of the tattoo.						
Field Min	3			Occur Min	0		
Field Max	7			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	(ITL)biom:PhysicalFeatureDescriptionDetail				Cardinality	0..9	
XML Level 3	(ITL)biom:PhysicalFeatureColorDetail				Cardinality	0..1	
XML Level 4	(ITL)biom:PhysicalFeatureSecondaryColorCode				Cardinality	0..5	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.043_4

Tattoo Color

Tattoo Color Code 4

Mnemonic	TC4	Conditionality	O↑
		Status	Active
Description	This fourth information item is part of the Tattoo Color (COL) field. It lists the additional color of the tattoo or part of the tattoo.		
Field Min	3	Occur Min	0
Field Max	7	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:PhysicalFeatureDescriptionDetail	Cardinality	0..9
XML Level 3	(ITL)biom:PhysicalFeatureColorDetail	Cardinality	0..1
XML Level 4	(ITL)biom:PhysicalFeatureSecondaryColorCode	Cardinality	0..5
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.043_5

Tattoo Color

Tattoo Color Code 5

Mnemonic	TC5	Conditionality	O↑
		Status	Active
Description	This fifth information item is part of the Tattoo Color (COL) field. It lists the additional color of the tattoo or part of the tattoo.		
Field Min	3	Occur Min	0
Field Max	7	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	(ITL)biom:PhysicalFeatureDescriptionDetail	Cardinality	0..9
XML Level 3	(ITL)biom:PhysicalFeatureColorDetail	Cardinality	0..1
XML Level 4	(ITL)biom:PhysicalFeatureSecondaryColorCode	Cardinality	0..5
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.043_6

Tattoo Color

Tattoo Color Code 6

Mnemonic	TC6			Conditionality	O↑		
				Status	Active		
Description	This sixth information item is part of the Tattoo Color (COL) field. It lists the additional color of the tattoo or part of the tattoo.						
Field Min	3			Occur Min	0		
Field Max	7			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	(ITL)biom:PhysicalFeatureDescriptionDetail				Cardinality	0..9	
XML Level 3	(ITL)biom:PhysicalFeatureColorDetail				Cardinality	0..1	
XML Level 4	(ITL)biom:PhysicalFeatureSecondaryColorCode				Cardinality	0..5	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.044

Image Transform

Mnemonic	ITX		Conditionality	O	
			Status	Active	
Description	This optional field is used in the case when the image in this Type-10 record has been transformed from the original image. The untransformed image(s) (optionally) may be included in a Type-20 record. The information item in this field may be repeated if multiple transforms were performed. It can be used for any image type specified in Field 10.003: Image type / IMT .				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 2011: (Update 2013)				
XML Level 1	(ITL)biom:FaceImage/(ITL)biom:ImageCaptureDetail or (ITL)biom:PhysicalFeatureImage/(ITL)biom:ImageCaptureDetail			Cardinality	1...1
XML Level 2	(ITL)biom:ImageTransformationCode			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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10.044_0

Image Transform

Subfields: Repeating values

Mnemonic	ITX_0			Conditionality	M↑		
				Status	New - Active		
Description	This optional field is used in the case when the image in this Type-10 record has been transformed from the original image. The untransformed image(s) (optionally) may be included in a Type-20 record. The information item in this field may be repeated if multiple transforms were performed. It can be used for any image type specified in Field 10.003: Image type / IMT .						
Field Min	3			Occur Min	1		
Field Max	11			Occur Max	18		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	see Look Up Codes		
Code List	IMAGE TRANSFORM VALUES CODE						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage/(ITL)biom:ImageCaptureDetail or (ITL)biom:PhysicalFeatureImage/(ITL)biom:ImageCaptureDetail				Cardinality	1...1	
XML Level 2	(ITL)biom:ImageTransformationCode				Cardinality	0..18	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.045

Occlusions

Mnemonic	OCC			Conditionality	D		
				Status	Active		
Description	This optional field defines the outline and contents of any occlusions that partially or totally blocks the image of the face (IMT = 'FACE'). This is a contour or a polygon. Each point on the polygon is represented by a pair of information items.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	biom:FacelImageOcclusion				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Occlusions

Subfields: Repeating values

Mnemonic	OCC_0	Conditionality	M↑
		Status	New - Active
Description	This optional field defines the outline and contents of any occlusions that partially or totally blocks the image of the face (IMT = 'FACE'). This is a contour or a polygon. Each point on the polygon is represented by a pair of information items.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	16
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	biom:FacelImageOcclusion	Cardinality	0..16
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.045_1

Occlusions

Occlusion Opacity

Mnemonic	OCY	Conditionality	M↑
		Status	Active
Description	This field contains a code from the Occlusion Opacity Code table.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	A	Special Chars	n/a
Format	n/a	Constraints	OCY = T, I, L or S
Code List	OCCLUSION OPACITY CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	biom:FacelImageOcclusion	Cardinality	0..16
XML Level 3	biom:FacelImageOcclusionOpacityCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Occlusions

Occlusion Type

Mnemonic	OCT			Conditionality	M ↑		
				Status	Active		
Description	This field contains a code from the Occlusion Type Code table.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	OCT = H, S, C, R, or O		
Code List	OCCLUSION TYPE CODE						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	biom:FacelImageOcclusion				Cardinality	0..16	
XML Level 3	biom:FacelImageOcclusionCategoryCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.045_3

Occlusions

Number of Points

Mnemonic	NOP			Conditionality	M↑		
				Status	Active		
Description	This field shall specify the number of vertices.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	3 <= NOP <=99		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage				Cardinality	1...1	
XML Level 2	biom:FacelImageOcclusion				Cardinality	0..16	
XML Level 3	biom:PositionPolygonVertexQuantity				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.045_4

Occlusions

Horizontal Point Offset

Mnemonic	HPO	Conditionality	M↑
		Status	Active
Description	This field contains information items are pairs of x and y coordinates of vertices. The horizontal offsets (X) are the pixel counts to the right. Pairings are inserted for each vertex, up to the NOP. The HPO and VPO two information items are repeated as pairs, in order by point following the path, up to the final point - for a total of NOP pairs		
Field Min	1	Occur Min	3
Field Max	5	Occur Max	NOP
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 <= HPO <= HLL
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	biom:FacelImageOcclusion	Cardinality	0..16
XML Level 3	biom:PositionPolygonVertex	Cardinality	3..99
XML Level 4	biom:PositionHorizontalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.045_5

Occlusions

Vertical Point Offset

Mnemonic	VPO	Conditionality	M↑
		Status	Active
Description	This field contains information items are pairs of x and y coordinates of vertices. The vertical offsets (Y) are the pixel counts down from the origin. Pairings are inserted for each vertex, up to the NOP. The HPO and VPO two information items are repeated as pairs, in order by point following the path, up to the final point - for a total of NOP pairs		
Field Min	1	Occur Min	3
Field Max	5	Occur Max	NOP
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 <= VPO <= VLL
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage	Cardinality	1...1
XML Level 2	biom:FacelImageOcclusion	Cardinality	0..16
XML Level 3	biom:PositionPolygonVertex	Cardinality	3..99
XML Level 4	biom:PositionVerticalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-10: Photographic Body Part Imagery (including Face and S

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Image Subject Condition

Mnemonic	SUB			Conditionality	D		
				Status	New - Active		
Description	This field is optional. This field is particularly useful if the image is obtained from a deceased person. However, its use is not limited to such circumstances. Some implementation domains support the submission of fingerprints taken from deceased individuals as latent prints, due to the quality of the friction ridges and the resulting images. In such cases, SSC is specified as D. For latent images taken from a surface, the value is typically X.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage/(ITL)biom:ImageCaptureDetail/biom:SubjectExistentialDetails or (ITL)biom:PhysicalFeatureImage/(ITL)biom:ImageCaptureDetail/biom:SubjectExistentialDetails				Cardinality	1...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.046_1

Image Subject Condition

Subject Status Code

Mnemonic	SSC				Conditionality	M↑	
					Status	New - Active	
Description	The first information item is mandatory if this field is present. It is subject status code (SSC).						
Field Min	1				Occur Min	1	
Field Max	1				Occur Max	1	
Char Types	A				Special Chars	n/a	
Format	n/a				Constraints	SSC = X, A or D	
Code List	SUBJECT STATUS CODE						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage/(ITL)biom:ImageCaptureDetail/biom:SubjectExistentialDetails or (ITL)biom:PhysicalFeatureImage/(ITL)biom:ImageCaptureDetail/biom:SubjectExistentialDetails					Cardinality	1...1
XML Level 2	biom:SubjectExistentialStatusCode					Cardinality	1..1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.046_2

Image Subject Condition

Subject Body Status Code

Mnemonic	SBSC			Conditionality	M ↑		
				Status	New - Active		
Description	The second information item shall be entered if and only if SSC is D. It is subject body status code (SBSC). Its purpose is to indicate whether the information relates to an entire corpse or a separate body part.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	SBSC = 1 or 2, positive integer		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage/(ITL)biom:ImageCaptureDetail/biom:SubjectExistentialDetails or (ITL)biom:PhysicalFeatureImage/(ITL)biom:ImageCaptureDetail/biom:SubjectExistentialDetails				Cardinality	1...1	
XML Level 2	biom:SubjectBodyStatusCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.046_3

Image Subject Condition

Subject Body Class Code

Mnemonic	SBCC			Conditionality	M↑		
				Status	New - Active		
Description	The third information item shall be entered if and only if SSC is D. It is subject body class code (SBCC).						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	SBCC = 1, 2, or 3, positive integer		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage/(ITL)biom:ImageCaptureDetail/biom:SubjectExistentialDetails or (ITL)biom:PhysicalFeatureImage/(ITL)biom:ImageCaptureDetail/biom:SubjectExistentialDetails				Cardinality	1...1	
XML Level 2	biom:SubjectBodyClassCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.047

Capture Organization Name

Mnemonic	CON	Conditionality	0
		Status	New - Active
Description	Describes the agency that created the record. Since the record may have been forwarded by another agency to the final destination, Field 1.008: Originating agency identifier / ORI is used to indicate the transmitting organization. In many implementation domains, there are a limited number of transmission organizations that can send data. Therefore, the agency listed in SRC may send the transaction to another location that has access rights to the final destination. This intermediary may add information to the transaction, as well. The final transmitting organization code is listed in Field 1.008: Originating agency identifier / ORI. Its name may be entered in Originating agency name /OAN in Field 1.017: Agency names		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage/biom:ImageCaptureDetail/(ITL)biom:CaptureOrga nization or (ITL)biom:PhysicalFeatureImage/(ITL)biom:ImageCaptureDetail/(ITL)bio m:CaptureOrganization	Cardinality	1...1
XML Level 2	nc:OrganizationUnitName	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.048

Suspected Patterned Injury Detail

Mnemonic	PID	Conditionality	0
		Status	New - Active
Description	This field contains information concerning suspected patterned injuries. This optional field defines the outline and contents of any occlusions that partially or totally blocks the image of the face (IMT = 'FACE'). This is a contour or a polygon. Values for Field 10.003: Image type / IMT of SCAR, MARK, TATTOO, MISSING, OTHER and CONDITION shall not be used for patterned injuries, and thus this field shall not appear if IMT is set to any of those values. Field 10.041: SMT size or size of injury or identifying characteristic / SMS should be included in the record if this field is present.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:PatternedInjuryDetail	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.048_0Suspected Patterned Injury Detail*Subfields: Repeating sets of information items*

Mnemonic	PID_0	Conditionality	M↑
		Status	New - Active
Description	This field contains information concerning suspected patterned injuries. This optional field defines the outline and contents of any occlusions that partially or totally blocks the image of the face (IMT = 'FACE'). This is a contour or a polygon. Values for Field 10.003: Image type / IMT of SCAR, MARK, TATTOO, MISSING, OTHER and CONDITION shall not be used for patterned injuries, and thus this field shall not appear if IMT is set to any of those values. Field 10.041: SMT size or size of injury or identifying characteristic / SMS should be included in the record if this field is present.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	Unlimited
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:PatternedInjuryDetail	Cardinality	0...*
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.048_1Suspected Patterned Injury Detail*ADA Reference Code List*

Mnemonic	PARC	Conditionality	O↑
		Status	New - Active
Description	This field contains a code value characterizing a patterned injury in ANSI/ADA Standard No. 1077 – Dental Biometric Descriptors.		
Field Min	1	Occur Min	0
Field Max	30	Occur Max	1
Char Types	NS	Special Chars	n/a
Format	n/a	Constraints	Valid Code from ANSI/ADA Standard No. 1077
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:PatternedInjuryDetail	Cardinality	0...*
XML Level 3	biom:PatternedInjuryADAResponseCodeList/biom:PatternedInjuryADAResponseCodeText	Cardinality	0...*
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.048_2

Suspected Patterned Injury Detail

Additional Descriptive Text

Mnemonic	PADT	Conditionality	O↑
		Status	New - Active
Description	This field contains a Unicode free text information item description of the patterned injury.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:PatternedInjuryDetail	Cardinality	0...*
XML Level 3	biom:PatternedInjuryDescriptiveText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.049

Cheiloscopy Image Description

Mnemonic	CID	Conditionality	D
		Status	New - Active
Description	This field contains a set of subfield relaying information about the Cheiloscopy Image. If this field is encoded in Traditional format, each of the values in information items designated as a 'list' shall be separated by ' ' (vertical bar). For XML each value in a list should be entered as a separate element. This field may be used only if Field 10.003: Image type / IMT is LIP. The vertical bar " " is used in Traditional format in a list as a separating character. In XML encoding, each value (including <>) is a separate element and the vertical bar does not appear.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:CheiloscopyImageInformation	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.049_1

Cheiloscopic Image Description

Lip Print Width

Mnemonic	LPW			Conditionality	O↑		
				Status	New - Active		
Description	It corresponds to the distance from feature point code 8.4 to feature point code 8.3 on the MOUTH in Feature point codes defined inISO/IEC 14496-2 FEATURE POINT CODES. It is measured in millimeters.						
Field Min	1			Occur Min	0		
Field Max	4			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	positive integer		
Code List	ISO/IEC 14496-2 FEATURE POINT CODES						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	biom:CheilosopicImageInformation				Cardinality	0..1	
XML Level 3	biom:LipPrintWidth				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.049_2

Cheiloscopic Image Description

Lip Print Height

Mnemonic	LPH			Conditionality	O↑		
				Status	New - Active		
Description	It contains the distance from feature points 8.2 to feature point 2.3 PLUS the distance from feature point 2.2 to feature 8.1 on the MOUTH in Feature point codes defined ISO/IEC 14496-2 FEATURE POINT CODES. It is measured in millimeters.						
Field Min	1			Occur Min	0		
Field Max	4			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	positive integer		
Code List	ISO/IEC 14496-2 FEATURE POINT CODES						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	biom:CheilosopicImageInformation				Cardinality	0..1	
XML Level 3	biom:LipPrintHeight				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Cheiloscopical Image Description

Philtrum Width

Mnemonic	PHW	Conditionality	O↑
		Status	New - Active
Description	It is the distance from feature point 8.9 to 8.10 as shown in Feature point codes defined in ISO/IEC 14496-2 FEATURE POINT CODES. It is measured in millimeters.		
Field Min	1	Occur Min	0
Field Max	4	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	positive integer
Code List	ISO/IEC 14496-2 FEATURE POINT CODES		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:CheiloscopicalImageInformation	Cardinality	0..1
XML Level 3	biom:PhiltrumWidth	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.049_4

Cheiloscopical Image Description

Philtrum Height

Mnemonic	PHH	Conditionality	O↑
		Status	New - Active
Description	PHH is the distance in millimeters from feature point 8.1 to 9.15 (on the nose).		
Field Min	1	Occur Min	0
Field Max	4	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	positive integer
Code List	CHEILIOSCOPIC CHARACTERIZATION CODES		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:CheiloscopicalImageInformation	Cardinality	0..1
XML Level 3	biom:PhiltrumHeight	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.049_5

Cheiloscopical Image Description

Upper Lip Characterization List

Mnemonic	ULCL	Conditionality	O↑
		Status	New - Active
Description	The fifth information item, upper lip print characterization list/ ULCL, is optional. It is text that may be used to describe the print. The characterizations are those developed by Suzuki and Tsuchihashi. It is highly recommended that any distinctive patterns be outlined using Field 10.033: Feature contours / FEC. This field's XML reference is not in the NIEM Biometrics domain table. Coded as biom domain by NIST Appendix G.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	AS	Special Chars	n/a
Format	n/a	Constraints	list may have up to 5 values
Code List	CHEILIOSCOPIC CHARACTERIZATION CODES		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:CheiloscopicalImageInformation	Cardinality	0..1
XML Level 3	biom:UpperLipCharacterizationCodeList/biom:LipCharacterizationCode	Cardinality	0..5
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.049_6

Cheiloscopical Image Description

Lower Lip Characterization List

Mnemonic	LLCL	Conditionality	O↑
		Status	New - Active
Description	The fifth information item, lower lip print characterization list/ LLCL, is optional. It is text that may be used to describe the print. The characterizations are those developed by Suzuki and Tsuchihashi. It is highly recommended that any distinctive patterns be outlined using Field 10.033: Feature contours / FEC. This field's XML reference is not in the NIEM Biometrics domain table. Coded as biom domain by NIST Appendix G.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	AS	Special Chars	For traditional encoding, the special character " " is allowed as a separator character
Format	n/a	Constraints	list may have up to 5 values
Code List	CHEILIOSCOPIC CHARACTERIZATION CODES		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:CheiloscopicalImageInformation	Cardinality	0..1
XML Level 3	biom:LowerLipCharacterizationCodeList/biom:LipCharacterizationCode	Cardinality	0..5
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.049_7Cheiloscopic Image Description*Lip Contact Line Descriptor*

Mnemonic	LCLD	Conditionality	O↑
		Status	New - Active
Description	Contains the LIP CONTACT LINE DESCRIPTOR CODES.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	n/a
Format	n/a	Constraints	LCLD = L, C or M
Code List	LIP CONTACT LINE DESCRIPTOR CODES		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:CheiloscopicalImageInformation	Cardinality	0..1
XML Level 3	biom:LipContactLineDescriptorCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.049_8Cheiloscopic Image Description*Lip Print Characterization Text*

Mnemonic	LPCT	Conditionality	O↑
		Status	New - Active
Description	Description of the lip print characterization. This field is mandatory if LPCL contains the value O. It is UNICODE free text.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:CheiloscopicalImageInformation	Cardinality	0..1
XML Level 3	biom:LipPrintCharacterizationText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.049_9

Cheiloscopic Image Description

Lip Print Pathologies and Peculiarities List

Mnemonic	LPPL	Conditionality	O↑
		Status	New - Active
Description	If Type-code 99 is selected, then LPPT shall be used to describe the condition. Only one of the values 8, 9, 10, 11 or 12 may appear in the list. List may have up to 13 values. Only one of the values 8, 9, 10 11, or 12 may appear in the list. List may have up to 13 values. This field's XML reference is not in the NIEM Biometrics domain table. Coded as biom domain by NIST Appendix G.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	NS	Special Chars	For traditional encoding, the special character " " is allowed as a separator character
Format	n/a	Constraints	8, 9, 10 11, or 12
Code List	LIP PATHOLOGIES AND PECULIARITIES CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:CheiloscopicalImageInformation	Cardinality	0..1
XML Level 3	biom:LipPrintPathologiesPeculiaritiesCodeList/biom:LipPrintPathologiesPeculiaritiesCode	Cardinality	0..13
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.049_10

Cheiloscopic Image Description

Lip Print Pathologies and Peculiarities Descriptive Text

Mnemonic	LPPT	Conditionality	O↑
		Status	New - Active
Description	This field contains descriptive text regarding the lip print pathologies and peculiarities. This field shall appear if LPPL has a value of 99. This field's XML reference is not in the NIEM Biometrics domain table. Coded as biom domain by NIST Appendix G.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:CheiloscopicalImageInformation	Cardinality	0..1
XML Level 3	biom:LipPrintPathologiesPeculiaritiesText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-10: Photographic Body Part Imagery (including Face and S

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10.049_11

Cheiloscopic Image Description

Lip Print Surface List

Mnemonic	LPSL	Conditionality	O↑
		Status	New - Active
Description	Multiple codes may be selected from Lip Print Surface codes, since a lip print may be on multiple surfaces. An exemplar of a lip print may be made on a standard surface, such as a glass photographic slide mount. If a Type-code other than 1 is selected, then lip print surface descriptive text / LPST shall be entered. If Type-code 1 is chosen, then no other values shall be entered in the list. List may have up to 3 values. If Typecode 1 is chosen, no other values are allowed. This field's XML reference is not in the NIEM Biometrics domain table. Coded as biom domain by NIST Appendix G.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	NS	Special Chars	For traditional encoding, the special character " " is allowed as a separator character
Format	n/a	Constraints	
Code List	LIP PRINT SURFACE CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:CheiloscopicalImageInformation	Cardinality	0..1
XML Level 3	biom:LipPrintSurfaceCodeList/biom:LipPrintSurfaceCode	Cardinality	0..3
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

10.049_12

Cheiloscopic Image Description

Lip Print Surface Descriptive Text

Mnemonic	LPST	Conditionality	O↑
		Status	New - Active
Description	This field describes the surface on which the lip print occurs. This field contains descriptive text for the lip print surface. It should be entered if LPSL has a value other than 1.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:CheiloscopicalImageInformation	Cardinality	0..1
XML Level 3	biom:LipPrintSurfaceText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

10.049_13Cheiloscopic Image Description*Lip Print Medium Code*

Mnemonic	LPMC			Conditionality	O↑		
				Status	New - Active		
Description	This field shall be selected from Lip Print Medium Codes. If Type-code 9 is selected, then lip print medium descriptive text / LPMT shall be entered.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints			
Code List	LIP PRINT MEDIUM CODE						
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	biom:CheilosopicImageInformation				Cardinality	0..1	
XML Level 3	biom:LipPrintMediumCode				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.049_14Cheiloscopic Image Description*Lip Print Medium Descriptive Text*

Mnemonic	LPMT			Conditionality	O↑		
				Status	New - Active		
Description	This field describes the lip print medium. If LPMC has a value of 9, then it shall be entered.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	biom:CheilosopicImageInformation				Cardinality	0..1	
XML Level 3	biom:LipPrintMediumText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-10: Photographic Body Part Imagery (including Face and S

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10.049_15

Cheiloscopic Image Description

Facial Hair Descriptive Text

Mnemonic	FHDT			Conditionality	O↑		
				Status	New - Active		
Description	This field is used to describe the presence, pattern, distribution and density of the follicles if they are visible in the image.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	biom:CheilosopicImageInformation				Cardinality	0..1	
XML Level 3	biom:PersonFacialHairText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.049_16

Cheiloscopic Image Description

Lip Print Position and Tension Text

Mnemonic	LPDT			Conditionality	O↑		
				Status	New - Active		
Description	This information item should describe in general terms the probable, possible or verified relative position of the lips to each other and the muscle tension and shape of the lip print. There may be considerable variation in lip prints if the lips were pursed or open or if a print is taken post-mortem.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	biom:CheilosopicImageInformation				Cardinality	0..1	
XML Level 3	biom:LipPositionTensionDescriptiveText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-10: Photographic Body Part Imagery (including Face and S

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10.049_17

Cheiloscopic Image Description

Lip Print Additional Descriptive Text

Mnemonic	LPAT	Conditionality	O↑
		Status	New - Active
Description	This field should be used to describe any relevant information that may assist in the analysis of the cheiloscopic image.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:CheiloscopicalImageInformation	Cardinality	0..1
XML Level 3	biom:LipPrintDescriptiveText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.049_18

Cheiloscopic Image Description

Lip Print Comparison Descriptive Text

Mnemonic	LPCD	Conditionality	O↑
		Status	New - Active
Description	This field may be used by an analyst to note the results of a comparison against another image. If this information item is present, then Field 10.039: Type-10 reference number / T10 shall be present in the record to indicate the image against which the image in this instance of the Record Type-10 is compared.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:CheiloscopicalImageInformation	Cardinality	0..1
XML Level 3	biom:LipPrintComparisonDescriptiveText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-10: Photographic Body Part Imagery (including Face and S

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10.05

Dental Visual Image Data Information

Mnemonic	VID	Conditionality	0
		Status	New - Active
Description	This field is used to highlight distinctive features in an image. This field shall only be used if Field 10.003: Image type / IMT has a value of EXTRAORAL or INTRAORAL. When distinct features are outlined for comparison on an exemplar and a latent image, then Field 10.039: Type-10 reference number / T10 should be used to link the two Type-10 records.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:DentalVisualImageDataInformation	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.050_1

Dental Visual Image Data Information

Visual Image View Code

Mnemonic	VIVC	Conditionality	M↑
		Status	New - Active
Description	It is an entry selected from the "View Code" column of Dental Image codes.		
Field Min	3	Occur Min	1
Field Max	4	Occur Max	1
Char Types	A	Special Chars	n/a
Format	n/a	Constraints	
Code List	DENTAL IMAGE CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	biom:DentalVisualImageDataInformation	Cardinality	0..1
XML Level 3	biom:DentalVisualImageCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.050_2

Dental Visual Image Data Information

Visual Image Additional Descriptive Text

Mnemonic	VIDT			Conditionality	D		
				Status	New - Active		
Description	This field contains descriptive text on the Dental Visual Image.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	biom:DentalVisualImageDataInformation				Cardinality	0..1	
XML Level 3	biom:DentalVisualImageDescriptiveText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.050_3

Dental Visual Image Data Information

Visual Image Comparison Descriptive Text

Mnemonic	VICD			Conditionality	D		
				Status	New - Active		
Description	This field is normally used by an analyst to note the results of a comparison against another image. If this information item is present, then Field 10.039: Type-10 reference number / T10 shall be present in the record to indicate the image against which the image in this instance of the Record Type-10 is compared.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:PhysicalFeatureImage				Cardinality	1..1	
XML Level 2	biom:DentalVisualImageDataInformation				Cardinality	0..1	
XML Level 3	biom:DentalVisualImageComparisonDescriptiveText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-10: Photographic Body Part Imagery (including Face and S

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10.051

Ruler or Scale Presence

Mnemonic	RSP			Conditionality	O		
				Status	New - Active		
Description	This set of fields allows the user to state whether a ruler or other known scale is present in the image.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage				Cardinality	1..1	
XML Level 2	dod-ebts:RulerScalePresenceInformation				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.051_1

Ruler or Scale Presence

Ruler or Scale Units

Mnemonic	RSU			Conditionality	D		
				Status	New - Active		
Description	This field indicates the units of measurement visible on the ruler or measurement scale. Valid entries are: IN = inches; MM = millimeters; BOTH = both inches and millimeters						
Field Min	2			Occur Min	0		
Field Max	4			Occur Max	1		
Char Types	A			Special Chars	n/a		
Format	n/a			Constraints	RSU = IN, MM, or BOTH		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage				Cardinality	1...1	
XML Level 2	dod-ebts:RulerScalePresenceInformation				Cardinality	0..1	
XML Level 3	dod-ebts:RulerScaleUnitCode				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.051_2

Ruler or Scale Presence

Ruler or Scale Make

Mnemonic	RSM	Conditionality	D
		Status	New - Active
Description	This field lists the maker of the ruler or scale (if known).		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	dod-ebts:RulerScalePresenceInformation	Cardinality	0..1
XML Level 3	dod-ebts:RulerScaleMakeText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.051_3

Ruler or Scale Presence

Ruler or Scale Model

Mnemonic	RSO	Conditionality	O
		Status	New - Active
Description	This field lists the model of the ruler or scale (if known). For patterned injuries, the ABFO # 2 Reference Scale (commonly called the ABFO # 2 ruler) shall be used.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:FacelImage or (ITL)biom:PhysicalFeatureImage	Cardinality	1...1
XML Level 2	dod-ebts:RulerScalePresenceInformation	Cardinality	0..1
XML Level 3	dod-ebts:RulerScaleModelText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.902

Annotated Information

Mnemonic	ANN			Conditionality	0		
				Status	Active		
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0...*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.902_0

Annotated Information

Subfields: Repeating sets of information items

Mnemonic	ANN			Conditionality	M↑		
				Status	Active		
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	Unlimited		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0...*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.902_1

Annotated Information

Greenwich Mean Time

Mnemonic	GMT	Conditionality	M↑
		Status	Active
Description	This information item is the Greenwich Mean Time (GMT) when the processing occurred. The data is formatted as YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. This time is independent of the actual time zone where the time and date is recorded.		
Field Min	Dependent on encoding	Occur Min	1
Field Max	Dependent on encoding	Occur Max	1
Char Types	AN	Special Chars	None
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:ProcessAnnotation	Cardinality	0...*
XML Level 2	biom:ProcessUTCDate/nc:DateTime	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.902_2

Annotated Information

Processing Algorithm Name / Version

Mnemonic	NAV	Conditionality	M↑
		Status	Active
Description	This information item shall contain text identifying the name and version of the processing algorithm, application, procedure, or workstation		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:ProcessAnnotation	Cardinality	0...*
XML Level 2	biom:ProcessName	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.902_3

Annotated Information

Algorithm Owner

Mnemonic	OWN	Conditionality	M↑
		Status	Active
Description	This information item shall contain an unformatted text string of up to 64 characters with the contact information for the organization that owns the processing algorithm or latent workstation. Where there is no 'algorithm owner,' enter N/A.		
Field Min	1	Occur Min	1
Field Max	64	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:ProcessAnnotation	Cardinality	0...*
XML Level 2	biom:ProcessOwnerText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.902_4

Annotated Information

Process Description

Mnemonic	PRO	Conditionality	M↑
		Status	Active
Description	This information item field shall contain text describing a process or procedure applied to the sample in this Type-9 record.		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:ProcessAnnotation	Cardinality	0...*
XML Level 2	biom:ProcessDescriptionText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.903

Device Unique Identifier

Mnemonic	DUI	Conditionality	O
		Status	Active
Description	The DUI shall contain a string uniquely identifying the device or source of the data. This field shall be one of the following: a Host PC MAC address (identified by the first character "M"), a Host PC processor ID (identified by the first character "P"). since it is available in the Make / Model / Serial Number field.		
Field Min	13	Occur Min	0
Field Max	16	Occur Max	1
Char Types	ANS	Special Chars	Any
Format	n/a	Constraints	first character = M or P
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:BiometricCapture	Cardinality	1..1
XML Level 2	(ITL)biom:CaptureDeviceIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.904

Make/Model/Serial Number

Mnemonic	MMS	Conditionality	O
		Status	Active
Description	The MMS contains the make, model and serial number for the capture device. It shall consist of three information items. Each information item shall be 1 to 50 characters. Unknown information may be indicated with the value "0." Any or all information items may indicate that information is unknown with the value "0".		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:BiometricCapture	Cardinality	1..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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10.904_1

Make/Model/Serial Number

Make

Mnemonic	MAK			Conditionality	M↑		
				Status	Active		
Description	The name of the manufacturer for the capture device.						
Field Min	1			Occur Min	1		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	biom:BiometricCapture				Cardinality	1...1	
XML Level 2	biom:CaptureDeviceMakeText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.904_2

Make/Model/Serial Number

Model

Mnemonic	MOD			Conditionality	M↑		
				Status	Active		
Description	The model number for the capture device.						
Field Min	1			Occur Min	1		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	biom:BiometricCapture				Cardinality	1...1	
XML Level 2	biom:CaptureDeviceModelText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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10.904_3

Make/Model/Serial Number

Serial Number

Mnemonic	SER	Conditionality	M↑
		Status	Active
Description	The serial number for the capture device.		
Field Min	1	Occur Min	1
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:BiometricCapture	Cardinality	1...1
XML Level 2	biom:CaptureDeviceSerialNumberText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.992

Biometric Cross Reference Identification

Mnemonic	T2C	Conditionality	0
		Status	New - Active
Description	When used, it contains the IDC value of the Type-2 record that contains relevant biographic information and other data concerning the subject of this instance of the record, who may be different from the subject of the transaction.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	0 < T2C < 99, non-negative integer
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:Type2CrossReferenceIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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10.993

Source Agency Name

Mnemonic	SAN			Conditionality	0		
				Status	Active		
Description	This is an optional field. It may contain up to 125 Unicode characters. It is the name of the agency referenced in Field xx.004: Source agency / SRC for record types 9-99.						
Field Min	1			Occur Min	0		
Field Max	125			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	biom:BiometricCapture				Cardinality	1...1	
XML Level 2	(ITL)biom:CaptureOrganization				Cardinality	1..1	
XML Level 3	nc:OrganizationName				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.995

Associated Context

Mnemonic	ASC			Conditionality	0		
				Status	Active		
Description	This optional field refers to one or more Type 21 Records with the same ACN. Type 21 Records contain images that are NOT used to derive the biometric data in Field 13.999: Latent friction ridge image (DATA) but that may be relevant to the collection of that data, such as general scenes of the area where a latent print was found.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	biom:AssociatedContext				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.995_0

Associated Context

Subfields: Repeating sets of information items

Mnemonic	ASC_0			Conditionality	M↑		
				Status	New - Active		
Description	This optional field refers to one or more Type 21 Records with the same ACN. Type 21 Records contain images that are NOT used to derive the biometric data in Field 13.999: Latent friction ridge image (DATA) but that may be relevant to the collection of that data, such as general scenes of the area where a latent print was found.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	255		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	biom:AssociatedContext				Cardinality	0..255	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

10.995_1

Associated Context

Associated Context Number

Mnemonic	ACN			Conditionality	M↑		
				Status	Active		
Description	The first information item for the Associated Context field for a particular Record Type-21. This is mandatory for each Field xx.995, when the field is used. It contains an index to a particular instance of a Type-21 record in the transaction. This same index value appears in the appropriate instance of Record Type-21 as Field 21.021: Associated context number (CAN). The value of the CAN shall be a sequentially assigned a positive integer starting from one and incremented by one, not to exceed 255.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	n/a			Constraints	1 <= ACN <= 255; positive integer		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	biom:AssociatedContext				Cardinality	0..255	
XML Level 2	biom:ContextIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.995_2

Associated Context

Associated Segment Position

Mnemonic	ASP	Conditionality	O↑
		Status	Active
Description	The first information item is the associated segment position (ASP). This provides a unique index to a segmentation.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	1 <= ASP <= 99; positive integer
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:AssociatedContext	Cardinality	0..255
XML Level 2	biom:ImageSegmentIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.996

Hash

Mnemonic	HAS	Conditionality	O
		Status	Active
Description	Optional field xx.996, is designed for use in Record types 10 and above with a Field xx.999 storing the biometric data. It is comprised of 64 characters representing hexadecimal values. Thus, each character may be a digit from "0" to "9" or a letter "A" through "F". See the latest version of the Federal Information Processing Standard 180, Secure Hash Standard for information on computing SHA-256 hashes. At the time of this standard's publication, FIPS 180-37 had been published. It is also possible to use Field xx.996 to contain the hash for data stored externally, which is referenced in Field 20.994: External file reference (EFR) and/or Field 21.994: External file reference (EFR). The ability to store files externally is new to this version of the standard, and is only implemented for the two new record types referred to here. Use of the hash enables the receiver of the data to perform quick searches of large databases to determine if the data already exist in the database. It is not intended as an information assurance check. That is handled by Record Type-98: Information assurance record.		
Field Min	64	Occur Min	0
Field Max	64	Occur Max	1
Char Types	H	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:ImageHashValue	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.997

Source Representation

Mnemonic	SOR			Conditionality	0		
				Status	Active		
Description	This optional field refers to a representation in Record Type-20 with the same SRN from which the data in Field 13.999: Latent friction ridge image (DATA) was derived.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	biom:SourceRepresentation				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.997_0

Source Representation

Mnemonic	SOR_0			Conditionality	M↑		
				Status	New - Active		
Description	This optional field refers to a representation in Record Type-20 with the same SRN from which the data in Field 13.999: Latent friction ridge image (DATA) was derived.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	255		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	biom:SourceRepresentation				Cardinality	0...255	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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10.997_1

Source Representation

Source Representation Number

Mnemonic	SRN	Conditionality	M↑
		Status	Active
Description	This is the first information item and is mandatory for each Field xx.997. It contains an index to a particular instance of a Type-20 record in the transaction. This same index value appears in the appropriate instance of Record Type-20 as Field 20.021: Source representation number (SRN). The value of the SRN shall be a sequentially assigned a positive integer starting from one and incremented by one, not to exceed 255.		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= SRN <= 255; positive integer
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:SourceRepresentation	Cardinality	0...255
XML Level 2	biom:SourceIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.997_2

Source Representation

Reference Segment Position

Mnemonic	RSP	Conditionality	O↑
		Status	Active
Description	The first information item is the reference segment position (RSP). This provides a unique index to a segmentation.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	AN	Special Chars	n/a
Format	n/a	Constraints	1 <= RSP <= 99; positive integer
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:SourceRepresentation	Cardinality	0...255
XML Level 2	biom:ImageSegmentIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Geographic Sample Acquisition Location

Mnemonic	GEO			Conditionality	O		
				Status	Active		
Description	This optional field contains the location where the iris sample/original source/context information was acquired – not where it is stored.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	biom:BiometricCapture				Cardinality	1...1	
XML Level 2	biom:CaptureLocation				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.998_01

Geographic Sample Acquisition Location

Universal Time Entry

Mnemonic	UTE			Conditionality	O↑		
				Status	Active		
Description	The coordinated universal time (UTC) where the biometric sample was collected. This time is independent of the actual time zone where the time and date is recorded. The date is YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. If sample collection time is unknown, set it to "00000000000000Z."						
Field Min	Dependent on encoding			Occur Min	0		
Field Max	Dependent on encoding			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	biom:BiometricCapture				Cardinality	1...1	
XML Level 2	biom:CaptureLocation				Cardinality	0..1	
XML Level 3	biom:CaptureUTCDateTime/nc:DateTime				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.998_02

Geographic Sample Acquisition Location

Latitude Degree Value

Mnemonic	LTD	Conditionality	D
		Status	Active
Description	The second information item is latitude degree value (LTD). This is a value that specifies the degree of latitude. The value shall be between -90 (inclusive) and +90 (inclusive). The degrees may be expressed as an integer (without a decimal) or a real number including decimals. If decimals are present, then minutes and seconds shall be empty. Examples: Buenos Aires, Argentina: -34 (with minutes LTM = 36) NIST, Gaithersburg, Maryland: 39.137627 (no LTM or LTS) However, latitude degree value / LTD and longitude degree value / LGD are co-conditional, so they shall both be present if either is present.		
Field Min	1	Occur Min	0
Field Max	9	Occur Max	1
Char Types	NS	Special Chars	Decimal,Minus Sign,Plus Sign
Format	n/a	Constraints	-90 < LTD < 90
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:BiometricCapture	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LatitudeDegreeValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.998_03

Geographic Sample Acquisition Location

Latitude Minute Value

Mnemonic	LTM	Conditionality	D
		Status	Active
Description	This information item is latitude minute value (LTM). This is a value that specifies a minute of a degree. The value shall be between 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall be empty. Thus, the allowed special character is a period. The minute value can be empty, even if the degree value is an integer. LTM and LGM are co-conditional, so they shall both be present if either is present. Further, "minutes" values LTM and LGM can only be present if their corresponding "degrees" values are present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal,Minus Sign,Plus Sign
Format	n/a	Constraints	0 <= LTM < 60
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:BiometricCapture	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LatitudeMinuteValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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Geographic Sample Acquisition Location

Latitude Second Value

Mnemonic	LTS	Conditionality	D
		Status	Active
Description	The fourth information item is the latitude second value (LTS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer. Also, "seconds" values LTS and LGS can only be present if their corresponding "minutes" value is present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LTS < 60
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:BiometricCapture	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LatitudeSecondValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.998_05

Geographic Sample Acquisition Location

Longitude Degree Value

Mnemonic	LGD	Conditionality	D
		Status	Active
Description	The fifth information item is the longitude degree value (LGD). It is a value that specifies the degree of a longitude. The value shall be between -180 (inclusive) and +180 (inclusive). If LTD is present, then LGD shall be present. The degrees may be expressed as whole numbers (without a decimal) or real numbers including decimals. If decimals are present, then minutes and seconds are empty. Examples: Buenos Aires, Argentina: -58 (with minutes LGM = 22), NIST, Gaithersburg, Maryland: -77.216032 (no LGM or LGS) However, latitude degree value / LTD and longitude degree value / LGD are co-conditional, so they shall both be present if either is present.		
Field Min	1	Occur Min	0
Field Max	10	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	-180 <= LGD <= 180
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:BiometricCapture	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeDegreeValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.998_06Geographic Sample Acquisition Location*Longitude Minute Value*

Mnemonic	LGM	Conditionality	D
		Status	Active
Description	The sixth information item is the longitude minute value (LGM). It is a value that specifies a minute of a degree. The value shall be from 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall not appear. The minute value is empty, even if the degree value is an integer. If LTM is present, then LGM shall be present. Further, "minutes" values LTM and LGM can only be present if their corresponding "degrees" values are present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	1 <= LGM < 60
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:BiometricCapture	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeMinuteValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.998_07Geographic Sample Acquisition Location*Longitude Second Value*

Mnemonic	LGS	Conditionality	D
		Status	Active
Description	The seventh information item is the longitude second value (LGS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer. If LTS is present, then LGS shall be present. Also, "seconds" values LTS and LGS can only be present if their corresponding "minutes" value is present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LGS < 60
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:BiometricCapture	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeSecondValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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Geographic Sample Acquisition Location

Elevation

Mnemonic	ELE	Conditionality	D
		Status	Active
Description	The eighth information item is elevation (ELE). It is expressed in meters. It is a numeric value. It is between -422 meters (Dead Sea) and 8848 meters (Mount Everest). Allowed special characters are the negative sign and the period.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Minus Sign,Period
Format	n/a	Constraints	-422.000 < ELE < 8848.000; real number
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:BiometricCapture	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationGeographicElevation	Cardinality	0..1
XML Level 4	nc:MeasurePoint	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

10.998_09

Geographic Sample Acquisition Location

Geodetic Datum Code

Mnemonic	GDC	Conditionality	D
		Status	Active
Description	The ninth information item is the geodetic datum code (GDC11). It is an alphanumeric value of 3 to 6 characters in length. This information item is used to indicate which coordinate system was used to represent the values in information items 2 through 7. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values.		
Field Min	3	Occur Min	0
Field Max	6	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	GEOGRAPHIC COORDINATE DATUM CODE		
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:BiometricCapture	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	biom:GeodeticDatumCoordinateSystemCode or biom:GeodeticDatumCoordinateSystemName	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-10: Photographic Body Part Imagery (including Face and S

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10.998_10

Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Zone

Mnemonic	GCM	Conditionality	D
		Status	Active
Description	It is an alphanumeric value of 2 to 3 characters. This is a one or two digit UTM zone number followed by the 8 degree latitudinal band designator (which is a single letter).		
Field Min	2	Occur Min	0
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	One or two integers followed by a single letter
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:BiometricCapture	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 4	nc:UTMGridZoneID	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.998_11

Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Easting

Mnemonic	GCE	Conditionality	D
		Status	Active
Description	The eleventh information item is the geographic coordinate universal transverse Mercator easting (GCE). It is an integer of 1 to 6 digits.		
Field Min	1	Occur Min	0
Field Max	6	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	biom:BiometricCapture	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 4	nc:UTMEastingValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-10: Photographic Body Part Imagery (including Face and S

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10.998_12

Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Northing

Mnemonic	GCN			Conditionality	D		
				Status	Active		
Description	The twelfth information item is the geographic coordinate universal transverse Mercator northing (GCN). It is an integer of 1 to 8 digits.						
Field Min	1			Occur Min	0		
Field Max	8			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	biom:BiometricCapture				Cardinality	1...1	
XML Level 2	biom:CaptureLocation				Cardinality	0..1	
XML Level 3	nc:LocationUTMCoordinate				Cardinality	0..1	
XML Level 4	nc:UTMNorthingValue				Cardinality	0..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.998_13

Geographic Sample Acquisition Location

Geographic Reference Text

Mnemonic	GRT			Conditionality	O		
				Status	Active		
Description	It is a free form text describing a street address or other physical location (such as ‘Corner of Washington and Madison, Geneva, NY’).						
Field Min	1			Occur Min	0		
Field Max	150			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 2011: (Update 2013)						
XML Level 1	biom:BiometricCapture				Cardinality	1..1	
XML Level 2	biom:CaptureLocation				Cardinality	0..1	
XML Level 3	biom:GeographicLocationText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

10.998_14

Geographic Sample Acquisition Location

Geographic Coordinate Other System Identifier

Mnemonic	OSI			Conditionality	O
				Status	Active
Description	A fourteenth optional information item geographic coordinate other system identifier (OSI) allows for other coordinate systems. This information items specifies the system identifier. It is up to 10 characters in length. Examples are: • MGRS (Military Grid Reference System), • USNG (United States National Grid), • GARS (Global Area Reference System), • GEOREF (World Geographic Reference), • LANDMARK landmark (e.g. hydant) and position relative to the landmark.				
Field Min	1			Occur Min	0
Field Max	10			Occur Max	1
Char Types	U			Special Chars	n/a
Format	n/a			Constraints	n/a
Code List					
Source	ANSI/NIST ITL 2011: (Update 2013)				
XML Level 1	biom:BiometricCapture			Cardinality	1..1
XML Level 2	biom:CaptureLocation			Cardinality	0..1
XML Level 3	biom:LocationAlternateGeographicSystemValue			Cardinality	0..1
XML Level 4	biom:GeographicLocationSystemName			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

10.998_15

Geographic Sample Acquisition Location

Geographic Coordinate Other System Value

Mnemonic	OCV		Conditionality	D	
			Status	Active	
Description	A fifteenth optional information item, is the geographic coordinate other system value (OCV). It shall only be present if OSI is present in the record. It can be up to 126 characters in length. If OSI is LANDMARK, OCV is free text and may be up to 126 characters. For details on the formatting of OCV for the other coordinate systems shown in OSI as examples, see http://earth-info.nga.mil/GandG/coordsys/grids/referencesys.html .				
Field Min	1		Occur Min	0	
Field Max	126		Occur Max	1	
Char Types	U		Special Chars	Any	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 2011: (Update 2013)				
XML Level 1	biom:BiometricCapture			Cardinality	1...1
XML Level 2	biom:CaptureLocation			Cardinality	0..1
XML Level 3	biom:LocationAlternateGeographicSystemValue			Cardinality	0..1
XML Level 4	biom:GeographicLocationText			Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-10: Photographic Body Part Imagery (including Face and S

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10.999

Body Part Image

Mnemonic	DATA	Conditionality	M
		Status	Active
Description	This mandatory field contains the image. See Section 7.2 of ANSI/NIST ITL 1-2011 for details.		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	B	Special Chars	None, niem-xs:base64Binary
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 2011: (Update 2013)		
XML Level 1	(ITL)biom:PhysicalFeatureImage	Cardinality	1..1
XML Level 2	nc:BinaryBase64Object	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

11.001

Record Header

Mnemonic	LEN	Conditionality	M
		Status	New Active
Description	The record header appears as the first field (xx.001) in each Record Type. It contains information particular to the encoding format chosen, in order to enable proper reading of the record. In Traditional encoding, this field contains the record length in bytes (including all information separators). In NIEM-conformant XML encoding, this field contains the RecordCategoryCode, which is the numeric representation of the Record Type.		
Field Min	T = 4; X = 1	Occur Min	1
Field Max	T = 8; X = 2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	nist-itl:RecordCategoryCode	Cardinality	1..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-11: Forensic and Investigatory Voice Data

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11.002

Information Designation Character

Mnemonic	IDC			Conditionality	M
				Status	New Active
Description	Contains the IDC assigned to this Type-11 record as listed in the information item IDC for this record.				
Field Min	1			Occur Min	1
Field Max	2			Occur Max	1
Char Types	integer			Special Chars	None
Format	n/a			Constraints	0 <= IDC <= 99
Code List					
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)				
XML Level 1	nist-itl:ImageReferenceIdentification/nc:IdentificationID			Cardinality	1..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

11.003

Audio Object Descriptor Code

Mnemonic	AOD			Conditionality	M
				Status	New Active
Description	Indicates the type of audio object containing the voice recording which is the focus of this Type-11 record.				
Field Min	1			Occur Min	1
Field Max	1			Occur Max	1
Char Types	T = integer, X = AudioObjectDescriptorCodeType			Special Chars	None
Format	n/a			Constraints	0 <= AOD <= 5
Code List					
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)				
XML Level 1	biom:AudioObjectDescriptorCode			Cardinality	1..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-11: Forensic and Investigatory Voice Data

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11.004

Source Agency

Mnemonic	SRC			Conditionality	M		
				Status	New Active		
Description	The SRC is a code for a particular agency that is assigned by the implementation domain (such as NORAM, which is maintained by the FBI). It is often not the common name of the organization. This field denotes the agency that prepared this record. It is not necessarily the agency that is transmitting this transaction.						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	none			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:CaptureOrganization				Cardinality	1..1	
XML Level 2	nc:OrganizationIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.005

Voice Recording Source Organization

Mnemonic	VRSO			Conditionality	0		
				Status	New Active		
Description	Contains information about the person, group, site or agency that created the voice recording pointed to or included in this record. In the case of files created from previous recordings, this is not necessarily the source of the original transduction of the acoustic vocalizations from the person to whom the Type- 11 record pertains.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:RecordingSettingDetail				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.005_1

Voice Recording Source Organization

Source Organization Type Code

Mnemonic	STC	Conditionality	M↑
		Status	New Active
Description	A single character describing the site or agency that created the voice recording.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	U, P, I, G or O
Code List	SOURCE ORGANIZATION TYPE CODE		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:RecordingSettingDetail	Cardinality	0..1
XML Level 2	biom:RecordingSourceCategoryCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.005_2

Voice Recording Source Organization

Source Organization Name

Mnemonic	SON	Conditionality	O↑
		Status	New Active
Description	The name of the group, organization or agency that created the voice recording.		
Field Min	1	Occur Min	0
Field Max	400	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:RecordingSettingDetail	Cardinality	0..1
XML Level 2	biom:SourceOrganizationName	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.005_3

Voice Recording Source Organization

Point Of Contact

Mnemonic	POC			Conditionality	O↑		
				Status	New Active		
Description	Point of contact / POC - states who composed the voice recording.						
Field Min	1			Occur Min	0		
Field Max	200			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:RecordingSettingDetail				Cardinality	0..1	
XML Level 2	nc:OrganizationPrimaryContactInformation/nc:ContactEntityDescriptionText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.005_4

Voice Recording Source Organization

Record Setting Detail Country Code

Mnemonic	CSC			Conditionality	O↑		
				Status	New Active		
Description	Code of where the voice recording was created – not necessarily the nation of the agency entered in Field 11.993: Source agency name / SAN. Field 1.018: Geographic name set / GNS is set to GENC, and the default for this field is GENC alpha 3.						
Field Min	2			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	n/a			Constraints	EBTS 4.0 Mandates GENC		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:RecordingSettingDetail				Cardinality	0..1	
XML Level 2	biom:RecordingSourceCountryGENCAlpha3Code				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.006

Voice Recording Content Descriptor

Mnemonic	VRC	Conditionality	0
		Status	New Active
Description	Describes the contents of the voice recording.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:RecordingContentDescriptor	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.006_1

Voice Recording Content Descriptor

Assigned Voice Indicator

Mnemonic	AVI	Conditionality	M↑
		Status	New Active
Description	Assigned voice indicator / AVI - Indicates if the voice recording sample was obtained from a known subject.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	AVI = A, N or Q
Code List	VOICE RECORDING CONTENT INDICATOR CODE		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:RecordingContentDescriptor	Cardinality	0..1
XML Level 2	biom:RecordingAssignedVoiceCategoryCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.006_2

Voice Recording Content Descriptor

Speaker Plurality Code

Mnemonic	SPC	Conditionality	O↑
		Status	New Active
Description	Speaker plurality code / SPC - indicates plurality of speakers represented on voice recording.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	SPC = M or S
Code List	SPEAKER PLURALITY CODE		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:RecordingContentDescriptor	Cardinality	0..1
XML Level 2	biom:SpeakerPluralityCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.006_3

Voice Recording Content Descriptor

Comment

Mnemonic	COM	Conditionality	O↑
		Status	New Active
Description	Describes methods by which the plurality and nationality of the speakers was determined, along with any supporting text.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:RecordingContentDescriptor	Cardinality	0..1
XML Level 2	biom:RecordingContentComment	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.007

Audio Recording Device

Mnemonic	AREC			Conditionality	0		
				Status	New Active		
Description	Indicates information about the recording equipment that created the voice recording contained in or pointed to by this record. As recordings or data files may be transcoded from previously recorded or broadcast content, this equipment may or may not be the equipment used to record the original acoustic vocalization of the person to whom the Type-11 record pertains.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:AudioSourceRecorder				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.007_1

Audio Recording Device

Recording Device Descriptive Text

Mnemonic	RDD			Conditionality	0↑		
				Status	New Active		
Description	Text field describing the recording device that created the voice recording.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:AudioSourceRecorder				Cardinality	0..1	
XML Level 2	biom:CaptureDeviceDescriptionText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.007_2

Audio Recording Device

Recording Device Make

Mnemonic	MAK			Conditionality	O↑		
				Status	New Active		
Description	Describes make of the recording device that created the voice recording.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:AudioSourceRecorder				Cardinality	0..1	
XML Level 2	biom:CaptureDeviceMakeText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.007_3

Audio Recording Device

Recording Device Model

Mnemonic	MOD			Conditionality	O↑		
				Status	New Active		
Description	Contains the make, model and serial number, respectively, for the recording device.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:AudioSourceRecorder				Cardinality	0..1	
XML Level 2	biom:CaptureDeviceModelText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.007_4

Audio Recording Device

Recording Device Serial Number

Mnemonic	SER	Conditionality	O↑
		Status	New Active
Description	Recording device serial number.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:AudioSourceRecorder	Cardinality	0..1
XML Level 2	biom:CaptureDeviceSerialNumberText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.008

Acquisition Source

Mnemonic	AQS	Conditionality	D
		Status	New Active
Description	Specifies and describes the acquisition source. Mandatory field if AOD does not equal 5. It shall not appear if AOD = 5.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SourceAcquisition	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.008_1

Acquisition Source

Acquisition Source Code

Mnemonic	AQC	Conditionality	M↑
		Status	New Active
Description	It is an optional integer that specifies the source from which the voice in the identified segments was received.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	
Code List	ACQUISITION SOURCE CODE		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SourceAcquisition	Cardinality	0..1
XML Level 2	biom:AcquisitionSourceCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.008_2

Acquisition Source

Analog To Digital Conversion Description

Mnemonic	A2D	Conditionality	D
		Status	New Active
Description	Used to enter the make, model and serial number of the analog to digital conversion equipment used, if known. This field should also address parameters used, such as the sampling rate, if known. This field should address parameters used, such as sample rate, if known.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SourceAcquisition	Cardinality	0..1
XML Level 2	biom:AcquisitionDigitalConversionDescriptionText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.008_3

Acquisition Source

Contains Radio Transmission Format Description.

Mnemonic	FDN			Conditionality	D		
				Status	New Active		
Description	Radio transmission format description / FDN - Mandatory if the AQT is 23 or 24.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SourceAcquisition				Cardinality	0..1	
XML Level 2	biom:AcquisitionRadioTransmissionFormatDescriptionText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.008_4

Acquisition Source

Contains Acquisition Special Characteristics.

Mnemonic	AQSC				Conditionality	O↑		
					Status	New Active		
Description	Describes any specific conditions not mentioned in the table.							
Field Min	1				Occur Min	0		
Field Max	Unlimited				Occur Max	1		
Char Types	U				Special Chars	None		
Format	n/a				Constraints			
Code List								
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)							
XML Level 1	biom:SourceAcquisition					Cardinality	0..1	
XML Level 2	biom:AcquisitionSpecialCharacteristicsText					Cardinality	0..1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.009

Record Creation Date

Record Creation Date

Mnemonic	RCD			Conditionality	M		
				Status	New Active		
Description	Contains the date and time of creation of this Type-11 record. This date will generally be different from the voice recording creation date and may be different from the date at which the acoustic vocalization originally occurred.						
Field Min	Dependent on Encoding			Occur Min	1		
Field Max	Dependent on Encoding			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	Dependent on Encoding			Constraints	YYYYMMDDhhmm		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:RecordCreationDate/nc:DateTime				Cardinality	1..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.01

Total Recording Duration

Voice Recording Creation Date

Mnemonic	VRD			Conditionality	O		
				Status	New Active		
Description	Total length of the voice recording time for this Type-11 record.						
Field Min	Dependent on Encoding			Occur Min	0		
Field Max	Dependent on Encoding			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	Dependent on Encoding			Constraints	YYYYMMDDhhmm		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom_2:CaptureDate/nc:DateTime				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.011

Voice Recording Date

Total Recording Duration

Mnemonic	TRD			Conditionality	O		
				Status	New Active		
Description	Gives the total length of the voice recording time for this Type-11 record. The second and third items of this field only apply to digital audio objects, as indicated by a value of 0, 1 or 2 in AOD. At least one of the three information items must be entered if this field is used.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:RecordingDuration				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.011_1

Voice Recording Date

Voice Recording Time

Mnemonic	TIM			Conditionality	O↑		
				Status	New Active		
Description	The total time of the voice recording in microseconds. The size of this item is limited to 11 digits, limiting the total time duration of the signal to 99,999 seconds, which is approximately 28 hours.						
Field Min	1			Occur Min	0		
Field Max	11			Occur Max	1		
Char Types	N			Special Chars	Contains integers with no commas or periods		
Format	n/a			Constraints	1 <= TIM <= 99999999999		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:RecordingDuration				Cardinality	0..1	
XML Level 2	biom:RecordingDurationTime				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.011_2

Voice Recording Date

Compressed Bytes

Mnemonic	CBY			Conditionality	O↑		
				Status	New Active		
Description	The total number of compressed bytes in the digital voice data file. This information item applies only to digital voice recordings stored as voice data files. The size of this item is limited to 14 digits, limiting the total size of the voice data file to 99 terabytes.						
Field Min	1			Occur Min	0		
Field Max	14			Occur Max	1		
Char Types	N			Special Chars	integers no commas or periods		
Format	n/a			Constraints	1 <= CBY <= 99999999999999		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:RecordingDuration				Cardinality	0..1	
XML Level 2	biom:RecordingCompressedBytesQuantity				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.011_3

Voice Recording Date

Total Digital Samples

Mnemonic	TSM			Conditionality	O↑		
				Status	New Active		
Description	The number of digital samples in the voice data file after any decompression of the compressed signal. This information item applies only to digital voice recordings stored as voice data files. The size of this item is limited to 14 digits.						
Field Min	1			Occur Min	0		
Field Max	14			Occur Max	1		
Char Types	N			Special Chars	integers, no commas or periods		
Format	n/a			Constraints	1 <= TSM <= 99999999999999		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:RecordingDuration				Cardinality	0..1	
XML Level 2	biom:RecordingSampleQuantity				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.012

Physical Media Object

Mnemonic	PMO				Conditionality	D			
					Status	New Active			
Description	Identifies the characteristics of the physical media containing the voice recording. There can be only one physical media object per Type-11 record, but multiple Type physical media object. This field only applies if AOD has an attribute code of AOD. The location of the physical media object is given in EFR.								
Field Min	n/a				Occur Min	0			
Field Max	n/a				Occur Max	1			
Char Types	n/a				Special Chars	n/a			
Format	n/a				Constraints				
Code List									
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)								
XML Level 1	biom:PhysicalMediaObject						Cardinality	0..1	
XML Level 2							Cardinality		
XML Level 3							Cardinality		
XML Level 4							Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes		

11.012_1

Physical Media Object

Media Type Description

Mnemonic	MTD			Conditionality	M↑		
				Status	New Active		
Description	It is mandatory if this field is used and contains text describing the general type of media (e.g., analog cassette tape, reel-to-reel tape, CD, DVD, phonograph record) upon which the voice recording is stored.						
Field Min	1			Occur Min	1		
Field Max	300			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:PhysicalMediaObject				Cardinality	0..1	
XML Level 2	biom:MediaCategoryText				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.012_2

Physical Media Object

Recording Speed

Mnemonic	RSP				Conditionality	O↑		
					Status	New Active		
Description	Gives a numerical value to the speed at which the physical media object must be played to reproduce the voice signal content.							
Field Min	1				Occur Min	0		
Field Max	9				Occur Max	1		
Char Types	NS				Special Chars	numbers, with decimals allowed		
Format	n/a				Constraints			
Code List								
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)							
XML Level 1	biom:PhysicalMediaObject					Cardinality	0..1	
XML Level 2	biom:RecordingSpeedRate					Cardinality	0..1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

11.012_3

Physical Media Object

Recording Speed Measurement Units Description Text

Mnemonic	RSU			Conditionality	D		
				Status	New Active		
Description	Recording speed measurement units description text and contains text to indicate the units of measure to which RSP refers (such as Rotations per minute).			Mandatory if the second information item, RSP, is entered			
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:PhysicalMediaObject				Cardinality	0..1	
XML Level 2	biom:RecordingSpeedUnitText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.012_4

Physical Media Object

Equalization Description

Mnemonic	EQD	Conditionality	O↑
		Status	New Active
Description	Indicates the equalization that should be applied for faithful rendering of the voice recording on the physical media object.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:PhysicalMediaObject	Cardinality	0..1
XML Level 2	biom:AudioEqualizationText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.012_5

Physical Media Object

Track Count

Mnemonic	TRC	Conditionality	O↑
		Status	New Active
Description	Gives the number of tracks on the physical media object.		
Field Min	1	Occur Min	0
Field Max	4	Occur Max	1
Char Types	N	Special Chars	Integers - Contains optional integer between 1 and 9999, inclusive.
Format	n/a	Constraints	1 <= TRC <= 99999999999999
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:PhysicalMediaObject	Cardinality	0..1
XML Level 2	biom:AudioTrackQuantity	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.012_6Physical Media Object*Speaker Track Number*

Mnemonic	STK	Conditionality	O↑
		Status	New Active
Description	Indicate which tracks carry the voices of the speaker(s). A value of 0 or no entry for this information item indicates that all tracks contain voice data for the speaker(s). (list may have less than or equal to TRC elements)		
Field Min	1	Occur Min	0
Field Max	4	Occur Max	9999
Char Types	NS	Special Chars	List of non-negative integers For Traditional encoding, the separator character “ ” is used between elements. This is not applicable to XML encoding.
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:PhysicalMediaObject	Cardinality	0..1
XML Level 2	biom:SpeakerTrackList/biom:TrackID	Cardinality	0..9999
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.012_7Physical Media Object*Comment*

Mnemonic	COM	Conditionality	O↑
		Status	New Active
Description	Allows for additional comments describing the physical media object.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:PhysicalMediaObject	Cardinality	0..1
XML Level 2	biom:MediaCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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11.013

Container

Mnemonic	CONT			Conditionality	0		
				Status	New Active		
Description	Contains information about the container format that encapsulates the audio data of the electronic file used to carry the voice data in the digital recording. This field is not used if the voice recording is stored on a physical media object as an analog signal – so it can only appear if Audio object descriptor code /AOD is set to 0, 1 or 2.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:DigitalMediaContainer				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.013_1

Container

Container Code

Mnemonic	CONC		Conditionality	M↑	
			Status	New Active	
Description	Information about the container format that encapsulates the audio data of the electronic file used to carry the voice data in the digital recording. This field is not used if the voice recording is stored on a physical media object as an analog signal – so it can only appear if Audio object descriptor code /AOD is set to 0, 1 or 2. A container code of Other (CONC = 2) indicates that the container is given neither in Table 78 Audio Visual Container Codes nor in the external container table and must be specified. If CONC = 2, the Field 11.051: Comment / COM shall be used to describe the container.				
Field Min	1		Occur Min	0	
Field Max	2		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints		
Code List	CONTAINER CODE				
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)				
XML Level 1	biom:DigitalMediaContainer			Cardinality	0..1
XML Level 2	biom:DigitalMediaContainerFormatCode			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

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11.013_2

Container

External Container Reference Code

Mnemonic	ECON	Conditionality	D
		Status	New Active
Description	Contains the external container reference code. Required if CONC = 1.		
Field Min	1	Occur Min	0
Field Max	80	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List	Code List Here - http://biometrics.nist.gov/cs_links/standard/ansi_2012/Codec.xlsx - Includes the fields		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:DigitalMediaContainer	Cardinality	0..1
XML Level 2	biom:DigitalMediaContainerExternalReferenceCodeText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.013_3

Container

Comment

Mnemonic	COM	Conditionality	D
		Status	New Active
Description	Information about the container or additional instructions for reconstruction of audio output from the stored digital data. Container parameters shall be specified in this information item when required for unambiguous decoding. This item should include a description of any noise reduction processing or equalization that must be applied to faithfully render the voice recording. Required if CONC = 2		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:DigitalMediaContainer	Cardinality	0..1
XML Level 2	biom:AudioCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.014

Codec

Mnemonic	CDC				Conditionality	D		
					Status	New Active		
Description	Gives information about the codec used to encode the voice and audio data in the digital recording. Appears when AOD is set to 0, 1 or 2.							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	1		
Char Types	n/a				Special Chars	n/a		
Format	n/a				Constraints			
Code List								
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)							
XML Level 1	biom:CodecDetails					Cardinality	0..1	
XML Level 2						Cardinality		
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

11.014_1

Codec

Codec Code

Mnemonic	CODC			Conditionality	O↑		
				Status	New Active		
Description	Indicates the single codec type used for all audio segments in the record. If the codec code is identified as Other (CODC = 2), the final information item (comments / COM) shall be used to describe the codec. If other Codecs are used (reference here - http://www.nist.gov/itl/iad/ig/ansi_standard.cfm) then use codec 1.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints			
Code List	CODEC TYPE CODE						
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:CodecDetails				Cardinality	0..1	
XML Level 2	biom:CodecCategoryCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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11.014_2

Codec

Sampling Rate Number

Mnemonic	SRTN			Conditionality	0↑		
				Status	New Active		
Description	Indicates the number of digital samples per second that represent a second of analog voice data upon conversion to an acoustic signal. The value of 0 shall only be used to indicate unknown or variable sampling rate. The sampling rate is expressed in Hz						
Field Min	1			Occur Min	0		
Field Max	9			Occur Max	1		
Char Types	N			Special Chars	positive integer, no commas		
Format	n/a			Constraints	0 < SRTN < 100000000		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:CodecDetails				Cardinality	0..1	
XML Level 2	biom:SamplingRate				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.014_3

Codec

Bit Depth Count

Mnemonic	BITD			Conditionality	0↑		
				Status	New Active		
Description	Indicates the number of bits that are used to represent a single digital sample of voice data. Encoders of unknown or variable bit depth shall be given the value of 0.						
Field Min	1			Occur Min	0		
Field Max	4			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 < BITD < 1024, positive integer		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:CodecDetails				Cardinality	0..1	
XML Level 2	biom:RecordingBitDepthValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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11.014_4

Codec

Endian Code

Mnemonic	ENDC			Conditionality	O↑		
				Status	New Active		
Description	Indicates which byte goes first for digital samples containing two or more bytes. ENDC is optional and ignored for digital samples that do not contain two or more integer multiples of bytes).						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	ENDC = 0 or 1		
Code List	ENDIAN CODE						
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:CodecDetails				Cardinality	0..1	
XML Level 2	biom:RecordingEndianCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.014_5

Codec

Numeric Format

Mnemonic	NFMT			Conditionality	0↑		
				Status	New Active		
Description	Integer and floating point representations.						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	AN			Special Chars	NFMT = nonnegative integer with an optional letters s, b, or d following it		
Format	n/a			Constraints			
Code List	NUMERIC FORMAT CODE						
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:CodecDetails				Cardinality	0..1	
XML Level 2	biom:NumericFormatText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.014_6

Codec

Channel Count

Mnemonic	CHC			Conditionality	0↑		
				Status	New Active		
Description	Integer of number of channels of data represented in the digital voice data file. The number of channels must be between 1 and 9999, inclusive.						
Field Min	1			Occur Min	0		
Field Max	4			Occur Max	1		
Char Types	N			Special Chars	Contains positive integer		
Format	n/a			Constraints	1 <= CHC <= 9999		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:CodecDetails				Cardinality	0..1	
XML Level 2	biom:RecordingChannelsQuantity				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.014_7

Codec

External Codec Reference Code

Mnemonic	ECOD			Conditionality	D		
				Status	New Active		
Description	It contains the 'reference code' from the table of codecs available at http://www.nist.gov/itl/iad/ig/ansi_standard.cfm . If the codec is not listed in the external table, enter the name and description of the codec in COM. It can only appear if CODC = 1.						
Field Min	1			Occur Min	0		
Field Max	80			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List	Table of codecs available at http://www.nist.gov/itl/iad/ig/ansi_standard.cfm .						
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:CodecDetails				Cardinality	0..1	
XML Level 2	biom:CodecExternalReferenceCodeText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.014_8

Codec

Comment

Mnemonic	COM	Conditionality	D
		Status	New Active
Description	Contains additional information about the codec or additional instructions for reconstruction of audio output from the stored digital data. Codec parameters shall be specified in this information item when required for unambiguous decoding. This item should include a description of any noise reduction processing or equalization that must be applied to faithfully render the voice recording.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:CodecDetails	Cardinality	0..1
XML Level 2	biom:CodecCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

11.021

Redaction

Mnemonic	RED	Conditionality	O
		Status	New Active
Description	It indicates whether the voice recording contains overwritten or erased sections intended to remove, without altering the length of the segment, semantic content deemed not suitable for transmission or storage.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:RedactionInformation	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.021_1

Redaction

Redaction Indicator

Mnemonic	RDI	Conditionality	M↑
		Status	New Active
Description	Single character redaction indicator code.		
Field Min	0	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	RDI = 0, 1 or 2
Code List	REDACTION INDICATOR CODE		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:RedactionInformation	Cardinality	0..1
XML Level 2	dod-ebts:ProcessingIndicatorCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.021_2

Redaction

Redaction Authority Organization Name

Mnemonic	RDA	Conditionality	D
		Status	New Active
Description	Contains information about the agency that directed, authorized or performed the redaction. Can only be present if RDI = 1		
Field Min	1	Occur Min	0
Field Max	300	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:RedactionInformation	Cardinality	0..1
XML Level 2	biom:ProcessingAuthorityText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.021_3

Redaction

Comment

Mnemonic	COM	Conditionality	O↑
		Status	New Active
Description	It is an optional unrestricted text string that may contain text information about the redactions affecting the stored voice recording.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:RedactionInformation	Cardinality	0..1
XML Level 2	biom:ProcessingCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.022

Redaction

Mnemonic	RDD	Conditionality	O
		Status	New Active
Description	This field contains subfields that locate the segments within the recording of this Type- 11 record that may be of interest for investigatory purposes but are not focused upon speech. If Field 11.027 is included in the record, then this field shall be present only if DII = 1.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:RedactionDiaryInformation	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.022_0

Redaction

Subfields: Repeating Sets Of Information Items

Mnemonic	RDD_0			Conditionality	M ↑		
				Status	New Active		
Description	This field contains subfields that locate the segments within the recording of this Type- 11 record that may be of interest for investigatory purposes but are not focused upon speech. If Field 11.027 is included in the record, then this field shall be present only if DII = 1.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	600000		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:RedactionDiaryInformation				Cardinality	0..600000	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.022_1

Redaction Diary

Segment Identifier

Mnemonic	SID			Conditionality	M		
				Status	New Active		
Description	Present in each subfield and uniquely numbers the segment to which the following items in the subfield apply. M↑ Repeating Subfields 1 to 600000						
Field Min	1			Occur Min	1		
Field Max	6			Occur Max	1		
Char Types	N			Special Chars	Contains positive integer, no commas		
Format	n/a			Constraints	1 <= SID <= 600000		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:RedactionDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:SegmentIdentifier				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.022_2

Redaction Diary

Track And Channel Number List

Mnemonic	TRK	Conditionality	D
		Status	New Active
Description	A track and channel number list. It is mandatory if TRC in Field 11.012: Physical media object / PMO or CHC of Field 11.014: Codec / CDC is greater than one and lists all tracks or channels on the recording to which the segment identifier applies. No value in this list should be greater than the value of TRC or CHC, whichever applies.		
Field Min	1	Occur Min	0
Field Max	4	Occur Max	9999
Char Types	NS	Special Chars	For Traditional encoding, the separator character " " is used between elements. This is not applicable to XML encoding.
Format	n/a	Constraints	List of non-negative integers
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:RedactionDiaryInformation	Cardinality	0..600000
XML Level 2	biom:TrackChannelList/biom:TrackID	Cardinality	0..9999
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.022_3

Redaction Diary

Relative Start Time

Mnemonic	RST	Conditionality	M↑
		Status	New Active
Description	It indicates in microseconds the time of the start of the segment relative to the absolute beginning of the recording. Segments from the same track of the audio object identified in Field 11.003: Audio object descriptor code /AOD should not overlap.		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	N	Special Chars	Must be a positive integer.
Format	n/a	Constraints	1 <= RST
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:RedactionDiaryInformation	Cardinality	0..600000
XML Level 2	biom:RelativeStartTime	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.022_4

Redaction Diary

Relative End Time

Mnemonic	RET			Conditionality	M↑		
				Status	New Active		
Description	It indicates in microseconds the time of the end of the segment relative to the absolute beginning of the recording. It is a mandatory integer for the redaction identified by SID within each subfield.						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	N			Special Chars	Must be a positive integer.		
Format	n/a			Constraints	RET > RST		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:RedactionDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:RelativeEndTime				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.022_5

Redaction Diary

Comment

Mnemonic	COM			Conditionality	O↑		
				Status	New Active		
Description	Contains an unrestricted text string that allows for comments of any type to be made on a segment.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:RedactionDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:DiaryCommentText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.023

Redaction Diary

Mnemonic	DIS			Conditionality	0		
				Status	New Active		
Description	Indicates by its presence that the voice recording referenced in this Type-11 record has had segments removed or that signals are not present for another reason.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:DiscontinuityInformation				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.023_1

Discontinuities

Discontinuity Indicator

Mnemonic	DCI			Conditionality	M↑		
				Status	New Active		
Description	Code that indicates whether the voice recording contains temporal discontinuities.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	SGI = 0 , 1 or 2		
Format	n/a			Constraints	non-negative integer		
Code List	DISCONTINUITY INDICATOR CODE						
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:DiscontinuityInformation				Cardinality	0..1	
XML Level 2	dod-ebts:ProcessingIndicatorCode				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Discontinuities

Cutting Authority Organization Name

Mnemonic	CTA			Conditionality	D		
				Status	New Active		
Description	Contains information about the agency that performed a post-processing cutting upon the original recording (removing signal content). Agencies undertaking postprocessing cutting activities should log their actions in Field 98.900: Audit log / ALF and/or Field 11.902: Annotation information / ANN of this record. Item shall only appear if DCI = 1.						
Field Min	1			Occur Min	0		
Field Max	300			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:DiscontinuityInformation				Cardinality	0..1	
XML Level 2	biom:ProcessingAuthorityText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.023_3

Discontinuities

Comments

Mnemonic	COM			Conditionality	O↑		
				Status	New Active		
Description	Unrestricted text string that may contain text information about the snip activities affecting the voice recording.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:DiscontinuityInformation				Cardinality	0..1	
XML Level 2	biom:ProcessingCommentText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.024

Discontinuities

Discontinuities Diary

Mnemonic	DCD			Conditionality	O		
				Status	New Active		
Description	This optional field allows the documentation of discontinuities in the signal. This field need not be present if Field 11.023: Discontinuities / DIS is present in the record and DCI = 1, but it is highly recommended in such a case that this field be present.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:DiscontinuityDiaryInformation				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.024_0

Discontinuities

Subfields: Repeating Sets Of Information Items

Mnemonic	DCD_0			Conditionality	M↑		
				Status	New Active		
Description	This optional field allows the documentation of discontinuities in the signal. This field need not be present if Field 11.023: Discontinuities / DIS is present in the record and DCI = 1, but it is highly recommended in such a case that this field be present.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	600000		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:DiscontinuityDiaryInformation				Cardinality	0..600000	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.024_1

Discontinuities Diary

Segment Identifier

Mnemonic	SID	Conditionality	M↑
		Status	New Active
Description	Uniquely numbers the discontinuity to which the following items in the subfield apply. It is mandatory if TRC in Field 11.012: Physical media object / PMO or CHC of Field 11.014: Codec / CDC is greater than one and lists all tracks or channels on the recording to which SID applies. Must be a positive integer, no commas. 1 < SID < 600000 Repeating M↑ subsets 1 to 600000		
Field Min	1	Occur Min	1
Field Max	6	Occur Max	1
Char Types	N	Special Chars	positive integer, no commas
Format	n/a	Constraints	1 < SID < 600000
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:DiscontinuityDiaryInformation	Cardinality	0..600000
XML Level 2	biom:SegmentIdentifier	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.024_2

Discontinuities Diary

Track And Channel Number List

Mnemonic	TRK	Conditionality	M↑
		Status	New Active
Description	Contains the Track and Channel Number List. It is mandatory if TRC in Field 11.012: Physical media object / PMO or CHC of Field 11.014: Codec / CDC is greater than one and lists all tracks or channels on the recording to which SID applies.		
Field Min	1	Occur Min	0
Field Max	4	Occur Max	9999
Char Types	NS	Special Chars	For Traditional encoding, the separator character " " is used between elements. This is not applicable to XML encoding.
Format	n/a	Constraints	List of non-negative integers
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:DiscontinuityDiaryInformation	Cardinality	0..600000
XML Level 2	biom:TrackChannelList/biom:TrackID	Cardinality	0..9999
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.024_3

Discontinuities Diary

Relative Start Time

Mnemonic	RST			Conditionality	M		
				Status	New Active		
Description	It indicates in microseconds the time of the start of the discontinuity relative to the beginning of the voice recording contained in this Type-11 record.						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= RST, integer		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:DiscontinuityDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:RelativeStartTime				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.024_4

Discontinuities Diary

Relative End Time

Mnemonic	RET			Conditionality	M↑		
				Status	New Active		
Description	An integer for every discontinuity identified by an SID and indicates in microseconds the time of the end of the discontinuity relative to the beginning of the voice recording contained in this Type-11 record. If RET > RST, that indicates that the content has been removed or is not present183, but not redacted (masked).						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	N			Special Chars	integer		
Format	n/a			Constraints	RET > RST		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:DiscontinuityDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:RelativeEndTime				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.024_5

Discontinuities Diary

Comment

Mnemonic	COM	Conditionality	O↑
		Status	New Active
Description	An unrestricted text string that allows for comments of any type to be made about a discontinuity.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:DiscontinuityDiaryInformation	Cardinality	0..600000
XML Level 2	biom:DiaryCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.025

Vocal Content

Mnemonic	VOC	Conditionality	O
		Status	New Active
Description	Indicates whether the voice recording content has been diarized, meaning that time markings are included in Field 11.026: Vocal content diary / VCD to indicate the speech segments of interest pertaining to the subject of this Type-11 record.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalContentInformation	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Vocal Content

Diarization Indicator

Mnemonic	DII	Conditionality	M↑
		Status	New Active
Description	Code that indicates whether the voice recording is accompanied by a segment diary in Field 11.026 indicating speech segments from the voice signal subject of the Type-11 record.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	DII = 0 or 1, DiarizationIndicatorCodeType
Code List	DISCONTINUITY INDICATOR CODE		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalContentInformation	Cardinality	0..1
XML Level 2	biom:DiarizationIndicatorCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.025_2

Vocal Content

Diarization Authority Organization Name

Mnemonic	DAU	Conditionality	O↑
		Status	New Active
Description	An optional text field of up to 300 characters containing information about the agency that performed the diarization. Agencies undertaking diarization activities on the original speech should log their actions by appending to this item and noting the change of field contents in the Type-98 record and/or Field 11.902: Annotation information / ANN of this record. This information item shall only appear if DII = 1.		
Field Min	1	Occur Min	0
Field Max	300	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalContentInformation	Cardinality	0..1
XML Level 2	biom:ProcessingAuthorityText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.025_3

Vocal Content

Comments

Mnemonic	COM	Conditionality	O↑
		Status	New Active
Description	Contains text information about the diarization activities undertaken on the voice data.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalContentInformation	Cardinality	0..1
XML Level 2	biom:ProcessingCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.026

Vocal Content

Mnemonic	VCD	Conditionality	O
		Status	New Active
Description	This field contains subfields that locate the segments within the voice recording of this Type-11 record that are associated with a single speaker – the subject of the record (not necessarily the subject of the transaction). Contains text information about the diarization activities undertaken on the voice data. If Field 11.025 is included in the record, then this field shall be present only if DII = 1. This field may be used for individual snips, as well as concatenated snips.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalContentDiaryInformation	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.026_0

Vocal Content

Subfields: Repeating Sets Of Information Items

Mnemonic	VCD_0	Conditionality	M↑
		Status	New Active
Description	This field contains subfields that locate the segments within the voice recording of this Type-11 record that are associated with a single speaker – the subject of the record (not necessarily the subject of the transaction). Contains text information about the diarization activities undertaken on the voice data. If Field 11.025 is included in the record, then this field shall be present only if DII = 1. This field may be used for individual snips, as well as concatenated snips.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	600000
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalContentDiaryInformation	Cardinality	0..600000
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.026_1

Vocal Content Diary

Segment Identifier

Mnemonic	SID	Conditionality	M↑
		Status	New Active
Description	Uniquely numbers the segment to which the following items in the subfield apply. Repeating M↑ subsets 1 to 600000		
Field Min	1	Occur Min	1
Field Max	6	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= SID <= 600000, Contains integer, no commas
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalContentDiaryInformation	Cardinality	0..600000
XML Level 2	biom:SegmentIdentifier	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.026_2

Vocal Content Diary

Track And Channel Number List

Mnemonic	TRK	Conditionality	D
		Status	New Active
Description	Lists all tracks or channels on the recording to which the segment identifier applies. Mandatory if TRC in Field 11.012: Physical media object / PMO or CHC of Field 11.014: Codec / CDC is greater than one and lists all tracks or channels on the recording to which the segment identifier applies. A single value of 0 indicates that all tracks or channels are to be used. Note: tracks and channel counts are <= 9999.		
Field Min	1	Occur Min	0
Field Max	4	Occur Max	9999
Char Types	NS	Special Chars	For Traditional encoding, the separator character " " is used between elements. This is not applicable to XML encoding.
Format	n/a	Constraints	Contains list of non-negative integers
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalContentDiaryInformation	Cardinality	0..600000
XML Level 2	biom:TrackChannelList	Cardinality	0..9999
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.026_3

Vocal Content Diary

Relative Start Time

Mnemonic	RST	Conditionality	M↑
		Status	New Active
Description	Indicates in microseconds the time of the start of the segment relative to the absolute beginning of the voice recording contained in this Type-11 record. A single value of 0 indicates that all tracks or channels are to be used.		
Field Min	1	Occur Min	1
Field Max	11	Occur Max	1
Char Types	N	Special Chars	Contains an integer
Format	n/a	Constraints	1 <= RST
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalContentDiaryInformation	Cardinality	0..600000
XML Level 2	biom:RelativeStartTime	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.026_4

Vocal Content Diary

Relative End Time

Mnemonic	RET			Conditionality	M↑		
				Status	New Active		
Description	Indicates in microseconds the time of the end of the segment relative to the absolute beginning of the voice recording contained in this Type-11 record. Indicates in microseconds the time of the end of the segment relative to the absolute beginning of the voice recording contained in this Type-11 record.						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	N			Special Chars	Contains integer		
Format	n/a			Constraints	RET > RST		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:VocalContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:RelativeEndTime				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.026_5

Vocal Content Diary

Comment

Mnemonic	COM			Conditionality	O↑		
				Status	New Active		
Description	Allows for comments of any type to be made on a segment.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:VocalContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:DiaryCommentText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.026_6

Vocal Content Diary

Tagged Data

Mnemonic	TDT			Conditionality	O↑		
				Status	New Active		
Description	Gives the date indicated on the original, contemporaneous capture of the voice recording in the segment identified in this Type-11 record.						
Field Min	Dependent on Encoding			Occur Min	0		
Field Max	Dependent on Encoding			Occur Max	1		
Char Types	Dependent on Encoding			Special Chars			
Format	Dependent on Encoding			Constraints	YYYYMMDD		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:VocalContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:DiaryTaggedDate/nc:Date				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.026_7

Vocal Content Diary

Tagged Start Time

Mnemonic	TST			Conditionality	O↑		
				Status	New Active		
Description	Time tagged on the original, contemporaneous capture of the recording in the segment identified.						
Field Min	Dependent on Encoding			Occur Min	0		
Field Max	Dependent on Encoding			Occur Max	1		
Char Types	Dependent on Encoding			Special Chars			
Format	Dependent on Encoding			Constraints	YYYYMMDDhhmm		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:VocalContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:TagStartDateTime/nc:DateTime				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.026_8

Vocal Content Diary

Tagged End Time

Mnemonic	TET			Conditionality	O↑		
				Status	New Active		
Description	Time tagged on original, contemporaneous capture of the data at the end of the segment identified.						
Field Min	Dependent on Encoding			Occur Min	0		
Field Max	Dependent on Encoding			Occur Max	1		
Char Types	Dependent on Encoding			Special Chars			
Format	Dependent on Encoding			Constraints	YYYYMMDDhhmm		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:VocalContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:TagEndDateTime/nc:DateTime				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.026_9

Vocal Content Diary

Original Recording Date

Mnemonic	ORD			Conditionality	O↑		
				Status	New Active		
Description	Date of the original, contemporaneous capture of the recording in the segment identified.						
Field Min	Dependent on Encoding			Occur Min	0		
Field Max	Dependent on Encoding			Occur Max	1		
Char Types	Dependent on Encoding			Special Chars			
Format	Dependent on Encoding			Constraints	YYYYMMDDhhmm		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:VocalContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:OriginalRecordingDateTime/nc:Date				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.026_10

Vocal Content Diary

Segment Recording Start Time

Mnemonic	SRT	Conditionality	O↑
		Status	New Active
Description	Local end time of the original, contemporaneous capture of the recording in the segment identified. This information item may also be used in the case of DIA = 0, with the entire record treated as a single segment.		
Field Min	Dependent on Encoding	Occur Min	0
Field Max	Dependent on Encoding	Occur Max	1
Char Types	Dependent on Encoding	Special Chars	
Format	Dependent on Encoding	Constraints	YYYYMMDDhhmm
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalContentDiaryInformation	Cardinality	0..600000
XML Level 2	biom:SegmentRecordingStartDate/nc:DateTime	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.026_11

Vocal Content Diary

Segment Recording End Time

Mnemonic	END	Conditionality	O↑
		Status	New Active
Description	Local end time of the original, contemporaneous capture of the recording in the segment identified. This information item may also be used in the case of DIA = 0, with the entire record treated as a single segment.		
Field Min	Dependent on Encoding	Occur Min	0
Field Max	Dependent on Encoding	Occur Max	1
Char Types	Dependent on Encoding	Special Chars	
Format	Dependent on Encoding	Constraints	YYYYMMDDhhmm
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalContentDiaryInformation	Cardinality	0..600000
XML Level 2	biom:SegmentRecordingEndDate/nc:DateTime	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.026_12

Vocal Content Diary

Time Source Description Text

Mnemonic	TMD			Conditionality	O↑		
				Status	New Active		
Description	Reference for the values used in ORD, SRT and END.						
Field Min	1			Occur Min	0		
Field Max	300			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:VocalContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:TimeSourceDescriptionText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.026_13

Vocal Content Diary

Timing Comments

Mnemonic	TCOM			Conditionality	O↑		
				Status	New Active		
Description	Comments of any type to be made on the timings of the segment recording including the perceived accuracy of the values of ORD, SRT and END.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:VocalContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:TimeCommentText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.027

Vocal Content Diary

Other Content

Mnemonic	OCON			Conditionality	O↑		
				Status	New Active		
Description	Indicates whether the recording content has been diarized, meaning that time markings are included, in Field 11.028: Other content diary / OCD In order to indicate the segments of the recording that may contain sounds other than the voice of the subject of the record that could assist in the investigation (such as the sound of an automobile accident in a recording). Indicates whether the recording content has been diarized, meaning that time markings are included, in Field 11.028: Other content diary / OCD in order to indicate the segments of the recording that may contain sounds other than the voice of the subject of the record that could assist in the investigation.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List	DISCONTINUITY INDICATOR CODE						
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:OtherContentInformation				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.027_1

Other Content

Diarization Indicator

Mnemonic	DII			Conditionality	M↑		
				Status	New Active		
Description	This information item is mandatory if this field is used. It indicates whether the recording is accompanied by a segment diary in Field 11.028 indicating segments from the signal contained in or referred to by the Type-11 record. A value of 0 indicates that there is no accompanying diary and a value of 1 indicates the presence of Field 11.028: Other content diary / OCD. Value of 0 indicates that there is no accompanying diary and a value of 1 indicates the presence of Field 11.028: Other content diary / OCD.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	DII = 0 or 1		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:OtherContentInformation				Cardinality	0..1	
XML Level 2	biom:DiarizationIndicatorCode				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.027_2

Other Content

Diarization Authority

Mnemonic	DAU			Conditionality	D		
				Status	New Active		
Description	This information item is an optional text field containing information about the agency that performed the diarization. Agencies undertaking diarization activities should log their actions by appending to this item and noting the change of field contents in the Type-98 record and/or Field 11.902: Annotation information / ANN of this record. This information item shall only appear if DII = 1.						
Field Min	1			Occur Min	0		
Field Max	300			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:OtherContentInformation				Cardinality	0..1	
XML Level 2	biom:ProcessingAuthorityText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.027_3

Other Content

Comments

Mnemonic	COM			Conditionality	O↑		
				Status	New Active		
Description	The third information item is comments / COM. It is an optional unrestricted text string that may contain text information about the diarization activities undertaken on the recording.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:OtherContentInformation				Cardinality	0..1	
XML Level 2	biom:ProcessingCommentText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.028

Other Content

Mnemonic	OCD	Conditionality	0
		Status	New Active
Description	This field contains subfields that locate the segments within the recording of this Type-11 record that may be of interest for investigatory purposes but are not focused upon speech. Although Field 11.027: Other content / OCON need not be present in the record if this field is included in the record, it is highly recommended that it be present. If Field 11.027 is included in the record, then this field shall be present only if DII = 1. This record type accommodates up to 600,000 segments.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:OtherContentDiaryInformation	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.028_0

Other Content

Subfields: Repeating Sets Of Information Items

Mnemonic	OCD_0	Conditionality	
		Status	New Active
Description	This field contains subfields that locate the segments within the recording of this Type-11 record that may be of interest for investigatory purposes but are not focused upon speech. Although Field 11.027: Other content / OCON need not be present in the record if this field is included in the record, it is highly recommended that it be present. If Field 11.027 is included in the record, then this field shall be present only if DII = 1. This record type accommodates up to 600,000 segments.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	600000
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:OtherContentDiaryInformation	Cardinality	0..600000
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.028_1

Other Content

Segment Identifier

Mnemonic	SID	Conditionality	M
		Status	New Active
Description	Uniquely numbers the segment to which the following items in the subfield apply. Repeating M↑ subsets 1 to 600000		
Field Min	1	Occur Min	1
Field Max	6	Occur Max	1
Char Types	N	Special Chars	Contains integer, no commas
Format	n/a	Constraints	1 <= SID <= 600000
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:OtherContentDiaryInformation	Cardinality	0..600000
XML Level 2	biom:SegmentIdentifier	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.028_2

Other Content

Track And Channel Number List

Mnemonic	TRK	Conditionality	D
		Status	New Active
Description	Lists all tracks or channels on the recording to which the segment identifier applies. Mandatory if TRC in Field 11.012: Physical media object / PMO or CHC of Field 11.014: Codec / CDC is greater than one and lists all tracks or channels on the recording to which the segment identifier applies. A single value of 0 indicates that all tracks or channels are to be used. Note: tracks and channel counts are <= 9999.		
Field Min	1	Occur Min	0
Field Max	4	Occur Max	9999
Char Types	NS	Special Chars	For Traditional encoding, the separator character " " is used between elements. This is not applicable to XML encoding.
Format	n/a	Constraints	Contains list of non-negative integers
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:OtherContentDiaryInformation	Cardinality	0..600000
XML Level 2	biom:TrackChannelList/biom:TrackID	Cardinality	0..9999
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.028_3

Other Content

Relative Start Time

Mnemonic	RST			Conditionality	M↑		
				Status	New Active		
Description	Indicates in microseconds the time of the start of the segment relative to the absolute beginning of the voice recording contained in this Type-11 record.						
Field Min	1			Occur Min	1		
Field Max	11			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 ≤ RST, Contains an integer		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:OtherContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:RelativeStartTime				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.028_4

Other Content

Relative End Time

Mnemonic	RET			Conditionality	M↑		
				Status	New Active		
Description	Indicates in microseconds the time of the end of the segment relative to the absolute beginning of the voice recording contained in this Type-11 record.						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	RET > RST ; tracks and channel counts are < 9999, Contains integer		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:OtherContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:RelativeEndTime				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.028_5

Other Content

Comment

Mnemonic	COM	Conditionality	O↑
		Status	New Active
Description	Allows for comments of any type to be made on a segment.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:OtherContentDiaryInformation	Cardinality	0..600000
XML Level 2	biom:DiaryCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.028_6

Other Content

Tagged Data

Mnemonic	TDT	Conditionality	O↑
		Status	New Active
Description	Gives the date indicated on the original, contemporaneous capture of the voice recording in the segment identified in this Type-11 record.		
Field Min	Dependent on Encoding	Occur Min	0
Field Max	Dependent on Encoding	Occur Max	1
Char Types	Dependent on Encoding	Special Chars	
Format	Dependent on Encoding	Constraints	Dependent on Encoding
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:OtherContentDiaryInformation	Cardinality	0..600000
XML Level 2	biom:DiaryTaggedDate/nc:Date	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Other Content

Tagged Start Time

Mnemonic	TST			Conditionality	O↑		
				Status	New Active		
Description	Time tagged on the original, contemporaneous capture of the recording in the segment identified.						
Field Min	Dependent on Encoding			Occur Min	0		
Field Max	Dependent on Encoding			Occur Max	1		
Char Types	Dependent on Encoding			Special Chars			
Format	Dependent on Encoding			Constraints	Dependent on Encoding		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:OtherContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:TagStartDateTime/nc:DateTime				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.028_8

Other Content

Tagged End Time

Mnemonic	TET			Conditionality	O↑		
				Status	New Active		
Description	Time tagged on original, contemporaneous capture of the data at the end of the segment identified.						
Field Min	Dependent on Encoding			Occur Min	0		
Field Max	Dependent on Encoding			Occur Max	1		
Char Types	Dependent on Encoding			Special Chars			
Format	Dependent on Encoding			Constraints	Dependent on Encoding		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:OtherContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:TagEndDateTime/nc:DateTime				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Other Content

Original Recording Date

Mnemonic	ORD			Conditionality	O↑		
				Status	New Active		
Description	Date of the original, contemporaneous capture of the recording in the segment identified.						
Field Min	Dependent on Encoding			Occur Min	0		
Field Max	Dependent on Encoding			Occur Max	1		
Char Types	Dependent on Encoding			Special Chars			
Format	Dependent on Encoding			Constraints	Dependent on Encoding		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:OtherContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:OriginalRecordingDateTime/nc:Date				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.028_10

Other Content

Segment Recording Start Time

Mnemonic	SRT			Conditionality	O↑		
				Status	New Active		
Description	Local end time of the original, contemporaneous capture of the recording in the segment identified. This information item may also be used in the case of DIA = 0, with the entire record treated as a single segment.						
Field Min	Dependent on Encoding			Occur Min	0		
Field Max	Dependent on Encoding			Occur Max	1		
Char Types	Dependent on Encoding			Special Chars			
Format	Dependent on Encoding			Constraints	Dependent on Encoding		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:OtherContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:SegmentRecordingStartDate/nc:DateTime				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Other Content

Segment Recording End Time

Mnemonic	END	Conditionality	O↑
		Status	New Active
Description	Local end time of the original, contemporaneous capture of the recording in the segment identified. This information item may also be used in the case of DIA = 0, with the entire record treated as a single segment.		
Field Min	Dependent on Encoding	Occur Min	0
Field Max	Dependent on Encoding	Occur Max	1
Char Types	Dependent on Encoding	Special Chars	
Format	Dependent on Encoding	Constraints	Dependent on Encoding
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:OtherContentDiaryInformation	Cardinality	0..600000
XML Level 2	biom:SegmentRecordingEndTime/nc:DateTime	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.028_12

Other Content

Time Source Description Text

Mnemonic	TMD	Conditionality	O↑
		Status	New Active
Description	Reference for the values used in ORD, SRT and END.		
Field Min	1	Occur Min	0
Field Max	300	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:OtherContentDiaryInformation	Cardinality	0..600000
XML Level 2	biom:TimeSourceDescriptionText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Other Content

Timing Comments

Mnemonic	TCOM			Conditionality	O↑		
				Status	New Active		
Description	Comments of any type to be made on the timings of the segment recording including the perceived accuracy of the values of ORD, SRT and END.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:OtherContentDiaryInformation				Cardinality	0..600000	
XML Level 2	biom:TimeCommentText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.032

Vocal Segment Geographical Information

Mnemonic	SGEO			Conditionality	D		
				Status	New Active		
Description	Gives the geographical location of the primary subject of the Type-11 record at the beginning of that segment. If Field 11.025: Vocal content / VOC is present, then this field shall only be present if DII = 1. This field shall only be present if Field 11.026: Vocal content diary / VCD is present.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	n/a						
XML Level 1	biom:SegmentGeographicalLocation				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	n/a	DoD EBTS 2.0	n/a	DoD EBTS 3.0	n/a	DoD EBTS 4.0	n/a

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Vocal Segment Geographical Information

Subfield: Repeating Sets of Information Items

Mnemonic	SGEO_0			Conditionality	M↑		
				Status	New Active		
Description	Gives the geographical location of the primary subject of the Type-11 record at the beginning of that segment. If Field 11.025: Vocal content / VOC is present, then this field shall only be present if DII = 1. This field shall only be present if Field 11.026: Vocal content diary / VCD is present.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	n/a						
XML Level 1	biom:SegmentGeographicalLocation				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	n/a	DoD EBTS 2.0	n/a	DoD EBTS 3.0	n/a	DoD EBTS 4.0	n/a

11.032_01

Vocal Segment Geographical Information

Segment Identifier List

Mnemonic	SIL			Conditionality	M↑		
				Status	New Active		
Description	Segment identifiers to which the values in this subfield pertain. A value of 0 in this subfield indicates the segment geographical information in this subfield shall be considered the default value for all segments not specifically identified in other occurrences of this subfield. Repeating M↑ subsets 1 to 600000.						
Field Min	1			Occur Min	1		
Field Max	6			Occur Max	600000		
Char Types	NS			Special Chars	list of non-negative integers For Traditional encoding, the separator character “ ” is used between elements.This is not applicable to XML encoding.		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentGeographicalLocation				Cardinality	0..1	
XML Level 2	biom:SegmentIdentifierList/biom:SegmentIdentifier				Cardinality	1..600000	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Vocal Segment Geographical Information

Segment Cell Phone Tower Code

Mnemonic	SCT	Conditionality	O↑
		Status	New Active
Description	Identifies the cell phone tower, if any, that relayed the audio data at the start of the segment or segments referred to in this subfield.		
Field Min	1	Occur Min	0
Field Max	100	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentGeographicalLocation	Cardinality	0..1
XML Level 2	biom:CellPhoneTowerCodeText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.032_03

Vocal Segment Geographical Information

Latitude Degree Value

Mnemonic	LTD	Conditionality	D
		Status	New Active
Description	The second information item is latitude degree value / LTD. This is a value that specifies the degree of latitude. The value shall be between -90 (inclusive) and +90 (inclusive). The degrees may be expressed as an integer (without a decimal) or a real number including decimals. If decimals are present, then minutes and seconds shall be empty.		
Field Min	1	Occur Min	1
Field Max	9	Occur Max	1
Char Types	NS	Special Chars	Decimal,Minus Sign,Plus Sign
Format	n/a	Constraints	-90 < LTD < 90
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentGeographicalLocation	Cardinality	0..1
XML Level 2	biom:TwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0..1
XML Level 3	nc:LatitudeDegreeValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

11.032_04Vocal Segment Geographical Information*Latitude Minute Value*

Mnemonic	LTM	Conditionality	D
		Status	New Active
Description	The third information item is latitude minute value / LTM. This is a value that specifies a minute of a degree. The value shall be between 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall be empty. The minute value is empty, even if the degree value is an integer.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	0 <= LTM < 60
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentGeographicalLocation	Cardinality	0..1
XML Level 2	biom:TwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0..1
XML Level 3	nc:LatitudeMinuteValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

11.032_05Vocal Segment Geographical Information*Latitude Second Value*

Mnemonic	LTS	Conditionality	D
		Status	New Active
Description	The fourth information item is the latitude second value / LTS. This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	None
Format	n/a	Constraints	0 <= LTS < 60
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentGeographicalLocation	Cardinality	0..1
XML Level 2	biom:TwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0..1
XML Level 3	nc:LatitudeSecondValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Vocal Segment Geographical Information

Longitude Degree Value

Mnemonic	LGD	Conditionality	D
		Status	New Active
Description	The fifth information item is the longitude degree value / LGD. It is a value that specifies the degree of a longitude. The value shall be between -180 (inclusive) and +180 (inclusive). If LTD is present, then LGD shall be present. The degrees may be expressed as whole numbers (without a decimal) or real numbers including decimals. If decimals are present, then minutes and seconds are empty.		
Field Min	1	Occur Min	0
Field Max	10	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	-180 <= LGD <= 180
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentGeographicalLocation	Cardinality	0..1
XML Level 2	biom:TwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLongitude (0...1)	Cardinality	0..1
XML Level 3	nc:LongitudeDegreeValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.032_07

Vocal Segment Geographical Information

Longitude Minute Value

Mnemonic	LGM	Conditionality	D
		Status	New Active
Description	The sixth information item is the longitude minute value / LGM. It is a value that specifies a minute of a degree. The value shall be from 1 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall not appear. The minute value is empty, even if the degree value is an integer. If LTM is present, then L		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	1 <= LGM < 60
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentGeographicalLocation	Cardinality	0..1
XML Level 2	biom:TwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLongitude (0...1)	Cardinality	0..1
XML Level 3	nc:LongitudeMinuteValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.032_08Vocal Segment Geographical Information*Longitude Second Value*

Mnemonic	LGS	Conditionality	D
		Status	New Active
Description	The seventh information item is the longitude second value / LGS. This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer. If LTS is present, then LGS shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	None
Format	n/a	Constraints	0 <= LGS < 60
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentGeographicalLocation	Cardinality	0..1
XML Level 2	biom:TwoDimensionalGeographicCoordinate (0..1)/nc:GeographicCoordinateLongitude (0..1)	Cardinality	0..1
XML Level 3	nc:LongitudeSecondValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.032_09Vocal Segment Geographical Information*Elevation*

Mnemonic	ELE	Conditionality	D
		Status	New Active
Description	Elevation is expressed in meters as a numeric value. It is between -422 meters (Dead Sea) and 8848 meters (Mount Everest).		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Minus Sign,Period
Format	n/a	Constraints	-422.000 < ELE < 8848.000; real number
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentGeographicalLocation	Cardinality	0..1
XML Level 2	nc:LocationElevation	Cardinality	0..1
XML Level 3	nc:MeasurePointValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Vocal Segment Geographical Information

Geodetic Datum Code

Mnemonic	GDC	Conditionality	D
		Status	New Active
Description	The ninth information item is the geodetic datum code / GDC11. This information item is used to indicate which coordinate system was used to represent the values in information items 2 through 7. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values.		
Field Min	3	Occur Min	0
Field Max	6	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentGeographicalLocation	Cardinality	0..1
XML Level 2	nc:GeographicDatum	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.032_11

Vocal Segment Geographical Information

Geographic Coordinate Universal Transverse Mercator Zone

Mnemonic	GCM	Conditionality	D
		Status	New Active
Description	It is an alphanumeric value of 2 to 3 characters. This is a one or two digit UTM zone number followed by the 8 degree latitudinal band designator (which is a single letter).		
Field Min	2	Occur Min	0
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	One or two integers followed by a single letter. Valid latitudinal band designators include C through X, omitting I and O.
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentGeographicalLocation	Cardinality	0..1
XML Level 2	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 3	nc:UTMGridZoneID	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Vocal Segment Geographical Information

Geographic Coordinate Universal Transverse Mercator Easting

Mnemonic	GCE	Conditionality	D
		Status	New Active
Description	The eleventh information item is the geographic coordinate universal transverse Mercator easting / GCE. It is an integer of 1 to 6 digits.		
Field Min	1	Occur Min	0
Field Max	6	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentGeographicalLocation	Cardinality	0..1
XML Level 2	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 3	nc:UTMEastingValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.032_13

Vocal Segment Geographical Information

Geographic Coordinate Universal Transverse Mercator Northing

Mnemonic	GCN	Conditionality	D
		Status	New Active
Description	The twelfth information item is the geographic coordinate universal transverse Mercator northing / GCN. It is an integer of 1 to 8 digits.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentGeographicalLocation	Cardinality	0..1
XML Level 2	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 3	nc:UTMNorthingValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.032_14Vocal Segment Geographical Information*Geographic Reference Text*

Mnemonic	GRT	Conditionality	O
		Status	New Active
Description	A fourteenth optional information item geographic coordinate other system identifier / OSI allows for other coordinate systems. This information items specifies the system identifier. It is up to 10 characters in length. Examples are: MGRS (Military Grid Reference System), USNG (United States National Grid), GARS (Global Area Reference System), GEOREF (World Geographic Reference), and LANDMARK landmark (e.g. hydant) and position relative to the landmark.		
Field Min	1	Occur Min	1
Field Max	150	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	
Code List	GEOGRAPHIC COORDINATE DATUM CODE		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentGeographicalLocation	Cardinality	0..1
XML Level 2	biom_2:GeographicLocationText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.032_15Vocal Segment Geographical Information*Geographic Coordinate Other System Identifier (or Landmark)*

Mnemonic	OSI	Conditionality	O
		Status	New Active
Description	A fifteenth optional information item, is the geographic coordinate other system value / OCV. It shall only be present if OSI is present in the record. It can be up to 126 characters in length. If OSI is LANDMARK, OCV is free text and may be up to 126 characters. For details on the formatting of OCV for the other coordinate systems shown in OSI as examples, see http://earth-info.nga.mil/GandG/coordsys/grids/referencesys.html .		
Field Min	1	Occur Min	1
Field Max	10	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List	GEOGRAPHIC COORDINATE DATUM CODE		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentGeographicalLocation	Cardinality	0..1
XML Level 2	biom_2:LocationAlternateGeographicSystemValue	Cardinality	0..1
XML Level 3	biom_2:GeographicLocationSystemName	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.032_16

Vocal Segment Geographical Information

Geographic Coordinate Other System Value

Mnemonic	OCV			Conditionality	D		
				Status	New Active		
Description	A sixteenth information item is the geographic coordinate other system value / OCV. It is optional and may only be present if OSI is present in the record (which is the dependency listed in the record layout table).						
Field Min	1			Occur Min	0		
Field Max	126			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentGeographicalLocation				Cardinality	0..1	
XML Level 2	biom_2:LocationAlternateGeographicSystemValue				Cardinality	0..1	
XML Level 3	biom_2:GeographicLocationText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.033

Vocal Segment Quality Values

Mnemonic	SQV			Conditionality	D		
				Status	New Active		
Description	Quality values based on different types of quality assessments, Present if DII = 1.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:VocalSegmentQualityValue				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.033_0

Vocal Segment Quality Values

Subfield: Repeating Sets of Information Items

Mnemonic	SQV_0	Conditionality	M↑
		Status	New Active
Description	Quality values based on different types of quality assessments, Present if DII = 1.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	9
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalSegmentQualityValue		Cardinality 0..9
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.033_1

Vocal Segment

Segment Identifier List

Mnemonic	SIL	Conditionality	M↑
		Status	New Active
Description	Each subfield and gives the segment identifiers to which the values in this subfield pertain. A value of 0 in this subfield indicates the segment geographical information in this subfield shall be considered the default value for all segments not specifically identified in other occurrences of this subfield. Repeating M↑ subsets 1 to 9.		
Field Min	1	Occur Min	0
Field Max	6	Occur Max	600000
Char Types	NS	Special Chars	For Traditional encoding, the separator character “ ” is used between elements. This is not applicable to XML encoding.
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalSegmentQualityValue		Cardinality 0..9
XML Level 2	biom:SegmentIdentifierList/biom:SegmentIdentifier		Cardinality 0..600000
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.033_2

Vocal Segment Quality Values

Quality Value

Mnemonic	QVU			Conditionality	M↑		
				Status	New Active		
Description	Indicate the segment quality value between 0 (low quality) and 100 (high quality). A value of 255 indicates that quality was not assessed.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	integer		
Format	n/a			Constraints	0 <= QVU <+ 100 or = 255		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:VocalSegmentQualityValue				Cardinality	0..9	
XML Level 2	biom:QualityValue				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.033_3

Vocal Segment Quality Values

Algorithm Vendor Identification

Mnemonic	QAV			Conditionality	M↑		
				Status	New Active		
Description	Specifies the ID of the vendor of the quality assessment algorithm used to calculate the quality score. This 4-digit hex value is assigned by IBIA and expressed as four characters. A value of 0000 indicates a vendor without a designation by IBIA.						
Field Min	4			Occur Min	1		
Field Max	4			Occur Max	1		
Char Types	H			Special Chars	None		
Format	n/a			Constraints	0000 <= QAV <= FFFF		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:VocalSegmentQualityValue				Cardinality	0..9	
XML Level 2	biom:QualityAlgorithmVendorIdentification/nc:IdentificationType				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.033_4

Vocal Segment Quality Values

Algorithm Product Identification

Mnemonic	QAP	Conditionality	M↑
		Status	New Active
Description	Specifies a numeric product code assigned by the vendor of the quality assessment algorithm. Indicates which of the vendor's algorithms was used in the calculation of the quality score. A value of 0 indicates a vendor without a designation by IBIA.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	integer
Format	n/a	Constraints	0 <= QAP <= 65534
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalSegmentQualityValue	Cardinality	0..9
XML Level 2	biom:QualityAlgorithmProductIdentification/nc:IdentificationType	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.033_5

Vocal Segment Quality Values

Comments

Mnemonic	COM	Conditionality	D
		Status	New Active
Description	Provides information about the quality assessment process, including a description of any unregistered quality assessment algorithms used.		
Field Min	0	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalSegmentQualityValue	Cardinality	0..9
XML Level 2	biom:VocalSegmentQualityCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.034

Vocal Collision Identifier

Mnemonic	VCI	Conditionality	D
		Status	New Active
Description	Field indicating that a vocal collision (two or more persons talking at once) occurs within the segment. If Field 11.025: Vocal content / VOC is present, then this field shall only be present if DII = 1. This field shall only be present if Field 11.026: Vocal content diary / VCD is present.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	N	Special Chars	non-negative integer
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalCollisionIdentifierList	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.034_0

Vocal Collision Identifier

Subfield: Repeating Sets Of Information Items

Mnemonic	VCI_0	Conditionality	M↑
		Status	New Active
Description	Gives the segment identifiers to which the values in this subfield pertain. A value of 0 indicates the segment geographical information in this subfield shall be considered the default value. Repeating M↑ subsets 1 to 600000.		
Field Min	1	Occur Min	0
Field Max	6	Occur Max	600000
Char Types	N	Special Chars	list of non-negative integers For Traditional encoding, the separator character “ ” is used between elements. This is not applicable to XML encoding.
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:VocalCollisionIdentifierList/biom:SegmentIdentifier	Cardinality	0..600000
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.035

Vocal Segment Processing Priority

Mnemonic	PPY				Conditionality	M		
					Status	New Active		
Description	Only appears if Field 11.025: Vocal content / VOC exists in this record. Segments not identified should be given the lowest priority.							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	1		
Char Types	n/a				Special Chars	n/a		
Format	n/a				Constraints			
Code List								
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)							
XML Level 1	biom:SegmentProcessingPriorityInformation					Cardinality	0..1	
XML Level 2						Cardinality		
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

11.035_0

Vocal Segment Processing Priority

Subfield: Repeating Sets Of Information Items

Mnemonic	PPY_0			Conditionality	M↑		
				Status	New Active		
Description	Only appears if Field 11.025: Vocal content / VOC exists in this record. Segments not identified should be given the lowest priority.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	9		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentProcessingPriorityInformation					Cardinality	0..9
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.035_1Vocal Segment Processing Priority*Segment Identifier List*

Mnemonic	SIL	Conditionality	M↑
		Status	New Active
Description	Gives the segment identifiers to which the values in this subfield pertain. A value of 0 indicates the segment geographical information in this subfield shall be considered the default value. Repeating M↑ subsets 1 to 600000.		
Field Min	1	Occur Min	0
Field Max	6	Occur Max	600000
Char Types	NS	Special Chars	For Traditional encoding, the separator character " " is used between elements. This is not applicable to XML encoding.
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentProcessingPriorityInformation	Cardinality	0..9
XML Level 2	biom:SegmentIdentifierList/biom:SegmentIdentifier	Cardinality	0..600000
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.035_2Vocal Segment Processing Priority*Priority*

Mnemonic	PTY	Conditionality	M↑
		Status	New Active
Description	Indicates the priority with which the segments identified in this subfield should be processed. A value of 1 will indicate the highest priority and 9 the lowest.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	positive integer
Format	n/a	Constraints	1 <= PTY <= 9
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentProcessingPriorityInformation	Cardinality	0..9
XML Level 2	biom:ProcessingPriorityValue	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Vocal Segment Processing Priority

Mnemonic	VSCT				Conditionality	D		
					Status	New Active		
Description	Gives an assessment of the content of the voice data within the identified segment and includes provision for semantic transcripts, phonetic transcriptions and translations of the segment.							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	1		
Char Types	n/a				Special Chars	n/a		
Format	n/a				Constraints			
Code List								
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)							
XML Level 1	biom:SegmentContentInformation						Cardinality	0..1
XML Level 2							Cardinality	
XML Level 3							Cardinality	
XML Level 4							Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

11.036_0

Vocal Segment Processing Priority

Subfield: Repeating Sets Of Information Items

Mnemonic	VSCT_0			Conditionality	M↑		
				Status	New Active		
Description	Gives an assessment of the content of the voice data within the identified segment and includes provision for semantic transcripts, phonetic transcriptions and translations of the segment.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	600000		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentContentInformation				Cardinality	0..600000	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.036_1

Vocal Segment Processing Priority

Segment Identifier List

Mnemonic	SIL	Conditionality	M↑
		Status	New Active
Description	A value of 0 indicates the segment geographical information in this subfield shall be considered the default value. Repeating M↑ subsets 1 to 600000.		
Field Min	1	Occur Min	0
Field Max	6	Occur Max	600000
Char Types	NS	Special Chars	For Traditional encoding, the separator character " " is used between elements. This is not applicable to XML encoding.
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentContentInformation	Cardinality	0..600000
XML Level 2	biom:SegmentIdentifierList/biom:SegmentIdentifier	Cardinality	0..600000
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.036_2

Vocal Segment Processing Priority

Transcript Text

Mnemonic	TRN	Conditionality	O↑
		Status	New Active
Description	Contains a semantic transcription of the segment.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentContentInformation	Cardinality	0..600000
XML Level 2	biom:SegmentTranscriptText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.036_3

Vocal Segment Processing Priority

Transcript Language

Mnemonic	LNG	Conditionality	O↑
		Status	New Active
Description	Code for the language of the translation.		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	
Code List	3 character ISO 639-3 code for the language of the translation included in this subfield.		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentContentInformation	Cardinality	0..600000
XML Level 2	biom:SegmentTranscriptLanguageCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.036_4

Vocal Segment Processing Priority

Phonetic Transcript Text

Mnemonic	PTT	Conditionality	O↑
		Status	New Active
Description	Contains a phonetic transcription of the segment.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentContentInformation	Cardinality	0..600000
XML Level 2	biom:SegmentPhoneticTranscriptText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Vocal Segment Processing Priority

Phonetic Transcript Convention

Mnemonic	PTC			Conditionality	O↑		
				Status	New Active		
Description	States the phonetic transcript convention.			Present only if PTT is present in the subfield.			
Field Min	1			Occur Min	0		
Field Max	100			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentContentInformation				Cardinality	0..600000	
XML Level 2	biom:PhoneticTranscriptConvention				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.036_6

Vocal Segment Processing Priority

Translation Text

Mnemonic	TLT			Conditionality	O↑		
				Status	New Active		
Description	Contains a translation of the segment into a language other than the one in which the original segment was spoken.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentContentInformation				Cardinality	0..600000	
XML Level 2	biom:SegmentTranslationText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Vocal Segment Processing Priority

Translation Language

Mnemonic	TLG	Conditionality	O↑
		Status	New Active
Description	Language of the translation. Present only if TLT is present.		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	
Code List	3 character ISO 639-3 code for the language of the translation included in this subfield.		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentContentInformation	Cardinality	0..600000
XML Level 2	biom:TranslationLanguageCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.036_8

Vocal Segment Processing Priority

Segment Content Comment

Mnemonic	COM	Conditionality	O↑
		Status	New Active
Description	Contains comments on the content of the segment.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentContentInformation	Cardinality	0..600000
XML Level 2	biom:SegmentContentCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Vocal Segment Processing Priority

Transcript Authority Comment Text

Mnemonic	TAC	Conditionality	O↑
		Status	New Active
Description	States the authority providing the transcription, translation or comments in TRN, PTT, TLT or COM. If an automated process was used to develop the transcript, information about the process (i.e., the automated algorithm used) should be stated.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentContentInformation	Cardinality	0..600000
XML Level 2	biom:TranscriptAuthorityCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.037

Vocal Segment Speaker Characteristics

Mnemonic	SCC	Conditionality	D
		Status	New Active
Description	Gives an assessment of the characteristics of the voice within the segment, including intelligibility, emotional state and impairment. This field shall only appear if Field 11.025: Vocal content / VOC exists in the record.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Vocal Segment Speaker Characteristics

Subfield: Repeating Sets Of Information Items

Mnemonic	SCC_0			Conditionality	M↑		
				Status	New Active		
Description	Gives an assessment of the characteristics of the voice within the segment, including intelligibility, emotional state and impairment. This field shall only appear if Field 11.025: Vocal content / VOC exists in the record.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	600000		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation				Cardinality	0..600000	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.037_1

Vocal Segment Speaker Characteristics

Segment Identifier List

Mnemonic	SIL			Conditionality	M↑		
				Status	New Active		
Description	Gives the segment identifiers to which the values in this subfield pertain. 0 in this subfield indicates the segment geographical information in this subfield shall be considered the default value for all segments not specifically identified in other occurrences of this subfield. Repeating M↑ subsets 1 to 600000.						
Field Min	1			Occur Min	0		
Field Max	6			Occur Max	600000		
Char Types	NS			Special Chars	For Traditional encoding, the separator character “ ” is used between elements.		
Format	n/a			Constraints	List of non-negative integers		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation				Cardinality	0..600000	
XML Level 2	biom:SegmentIdentifierList/biom:SegmentIdentifier				Cardinality	0..600000	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Vocal Segment Speaker Characteristics

Speaker List

Mnemonic	SPL	Conditionality	O↑
		Status	New Active
Description	List of unique identifiers for the speakers in the segments identified in SIL. List may have up to 9999 speakers per segment grouping.		
Field Min	1	Occur Min	0
Field Max	4	Occur Max	9999
Char Types	U	Special Chars	For Traditional encoding, the separator character " " is used between elements. This is not applicable to XML encoding.
Format	n/a	Constraints	List of non-negative integers
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation	Cardinality	0..600000
XML Level 2	biom:SpeakerList/biom:SpeakerIdentifier	Cardinality	0..9999
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.037_3

Vocal Segment Speaker Characteristics

Type-2 Record Cross Reference

Mnemonic	T2C	Conditionality	O↑
		Status	New Active
Description	Contains the IDC value of the Type-2 record that contains relevant biographic information and other data concerning the subject of this instance of the record. This list may have up to 98 references (there is a maximum of 100 records in a transaction; Type-1 is required and this record has an IDC value, leaving a maximum of 98 other possible records.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	98
Char Types	NS	Special Chars	For Traditional encoding, the separator character " " is used between elements. This is not applicable to XML encoding.
Format	n/a	Constraints	List of non-negative integers, 1 < T2C value < 99
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation	Cardinality	0..600000
XML Level 2	biom:Type2CrossReferenceIdentificationList/biom:Type2CrossReferenceIdentification/nc:IdentificationID	Cardinality	0..98
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Vocal Segment Speaker Characteristics

Impairment Level Number

Mnemonic	IMP			Conditionality	O↑		
				Status	New Active		
Description	Indicates a subjective, observed level of neurological diminishment, whether from fatigue, disease, trauma, or the influence of medication/substances, across the speech segments identified. An integer between 0 (no noticed impairment) and 5 (significant), inclusive.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= IMP <= 5, integer		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation				Cardinality	0..600000	
XML Level 2	biom:ImpairmentValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.037_5

Vocal Segment Speaker Characteristics

Dominant Spoken

Mnemonic	DSL			Conditionality	O↑		
				Status	New Active		
Description	3 character ISO 639-3 code for the dominant language in the segments identified in this subfield.						
Field Min	3			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints			
Code List	3 character ISO 639-3 code for the language of the translation included in this subfield.						
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation				Cardinality	0..600000	
XML Level 2	biom:SpokenLanguageCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Vocal Segment Speaker Characteristics

Language Code

Mnemonic	LPS	Conditionality	O↑
		Status	New Active
Description	Rates the subjective estimation of the fluency of the language being spoken Scale of 0 (no proficiency) to 9 (high proficiency)		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 < =LPS <= 9
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation	Cardinality	0..600000
XML Level 2	biom:LanguageProficiencyValue	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.037_7

Vocal Segment Speaker Characteristics

Speech Style Code

Mnemonic	STY	Conditionality	O↑
		Status	New Active
Description	Code indicating the dominant style of speech within the segments.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	
Code List	SPEECH STYLE CODE		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation	Cardinality	0..600000
XML Level 2	biom:SpeechStyleCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Vocal Segment Speaker Characteristics

Intelligibility Scale Code

Mnemonic	INT			Conditionality	0↑		
				Status	New Active		
Description	Integer describing the subjective evaluation of the speech. 0 (unintelligible) to 9 (clear and fully intelligible)						
Field Min	0			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= INT <= 9, integer		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation				Cardinality	0..600000	
XML Level 2	biom:IntelligibilityValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.037_9

Vocal Segment Speaker Characteristics

Familiarity Degree Code

Mnemonic	FDC			Conditionality	0↑		
				Status	New Active		
Description	Indicates the perceived degree of familiarity between the data subject and the interlocutor. Ranges from 0 indicating no familiarity to 5 indicating high familiarity/intimacy.						
Field Min	0			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= FDC <= 5,integer		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation				Cardinality	0..600000	
XML Level 2	biom:FamiliarityValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Vocal Segment Speaker Characteristics

Health Comment

Mnemonic	HCM	Conditionality	O↑
		Status	New Active
Description	Notes any observable health issues impacting the data subject during the speech segment.		
Field Min	0	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation	Cardinality	0..600000
XML Level 2	biom:HealthCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.037_11

Vocal Segment Speaker Characteristics

Emotional State Code

Mnemonic	EMC	Conditionality	O↑
		Status	New Active
Description	An integer giving a subjective estimation of the emotional state of the data subject for the data subject across the segments identified.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	
Code List	EMOTIONAL STATE CODE		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation	Cardinality	0..600000
XML Level 2	biom:EmotionalStateCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Vocal Segment Speaker Characteristics

Vocal Effort Scale Number

Mnemonic	VES	Conditionality	O↑
		Status	New Active
Description	Reports the subjective, perceived vocal effort of the subject across the identified segments (very low vocal effort) and 5 (screaming/crying)		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 < =VES <= 5, integer
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation	Cardinality	0..600000
XML Level 2	biom:VocalEffortValue	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.037_13

Vocal Segment Speaker Characteristics

Vocal Style Code

Mnemonic	VSC	Conditionality	O↑
		Status	New Active
Description	Assesses the subjective predominant vocal style of the data subject across the identified segments.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	
Code List	VOCAL STYLE CODE		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation	Cardinality	0..600000
XML Level 2	biom:VocalStyleCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Vocal Segment Speaker Characteristics

Recording Awareness Indicator

Mnemonic	RAI			Conditionality	O↑		
				Status	New Active		
Description	Indicates whether the data subject is aware that a recording is being made.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	RAI = 0, 1 or 2		
Code List	RECORDING AWARENESS INDICATOR						
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation				Cardinality	0..600000	
XML Level 2	biom:RecordingAwarenessCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.037_15

Vocal Segment Speaker Characteristics

Script Text

Mnemonic	SCR			Conditionality	O↑		
				Status	New Active		
Description	Used to give the script used for read, prompted or repeated speech.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation				Cardinality	0..600000	
XML Level 2	biom:ScriptText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Vocal Segment Speaker Characteristics

Comments

Mnemonic	COM	Conditionality	O↑
		Status	New Active
Description	Used to give additional information about the characteristic assessment process, including a description of any characteristic assessment algorithms used, Notes on any known external stresses applicable to the data subject, and a description of how the values in the items of this subfield were assigned.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentSpeakerCharacteristicsInformation	Cardinality	0..600000
XML Level 2	biom:SpeechCharacteristicsCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.038

Vocal Segment Channel

Mnemonic	SCH	Conditionality	D
		Status	New Active
Description	Describes the transducer and transmission channel within the identified segments. Only be present if Field 11.025: Vocal content / VOC appears in this record. A value of 0 in this subfield indicates the segment geographical information in this subfield is the default value for all segments not specifically identified in other occurrences of this subfield.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentChannelInformation	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Vocal Segment Channel

Subfield: Repeating Sets Of Information Items

Mnemonic	SCH_0	Conditionality	M↑
		Status	New Active
Description	Describes the transducer and transmission channel within the identified segments. Only be present if Field 11.025: Vocal content / VOC appears in this record. A value of 0 in this subfield indicates the segment geographical information in this subfield is the default value for all segments not specifically identified in other occurrences of this subfield.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	600000
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentChannelInformation	Cardinality	0..600000
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.038_1

Vocal Segment Channel

Segment Identifier List

Mnemonic	SIL	Conditionality	M↑
		Status	New Active
Description	Gives the segment identifiers to which the values in this subfield pertain. Repeating M↑ subsets 1 to 600000.		
Field Min	1	Occur Min	1
Field Max	6	Occur Max	600000
Char Types	NS	Special Chars	For Traditional encoding, the separator character " " is used between elements. This is not applicable to XML encoding.
Format	n/a	Constraints	List of non-negative integers
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentChannelInformation	Cardinality	0..600000
XML Level 2	biom:SegmentIdentifierList/biom:SegmentIdentifier	Cardinality	1..600000
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Vocal Segment Channel

Audio Capture Device Code

Mnemonic	ACD			Conditionality	O↑		
				Status	New Active		
Description	A code indicating the audio capture device type. A value of “2” indicates that more than one type of microphone is being used simultaneously to collect the audio signal.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	AudioCaptureDeviceCodeType		
Code List	AUDIO CAPTURE DEVICE CODE						
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentChannelInformation				Cardinality	0..600000	
XML Level 2	biom:AudioCaptureDeviceCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.038_3

Vocal Segment Channel

Microphone Type Code

Mnemonic	MTC			Conditionality	O↑		
				Status	New Active		
Description	A code specifying the transducer type. “other”.			Transducer arrays using mixed transducer types shall be designated			
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	MTC = 0 , 1, 2, 3 or 4		
Code List	TRANSDUCER PRINCIPLE CODE						
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentChannelInformation				Cardinality	0..600000	
XML Level 2	biom:TransducerPrincipleCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Vocal Segment Channel

Capture Environment Description Text

Mnemonic	ENV	Conditionality	O↑
		Status	New Active
Description	Describes the acoustic environment of the recording.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentChannelInformation	Cardinality	0..600000
XML Level 2	biom:AudioCaptureEnvironmentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.038_5

Vocal Segment Channel

Transducer Distance

Mnemonic	DST	Conditionality	O↑
		Status	New Active
Description	Specifies the approximate distance in centimeters, rounded to the nearest integer number of centimeters, between the speaker in the identified segments and the transducer. A value of 0 will be used if the distance is less than one-centimeter.		
Field Min	1	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	integer
Format	n/a	Constraints	0 <= DST <= 99999
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentChannelInformation	Cardinality	0..600000
XML Level 2	biom:TransducerDistanceValue	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Vocal Segment Channel

Acquisition Source Code

Mnemonic	AQC	Conditionality	O↑
		Status	New Active
Description	Specifies the source from which the voice in the identified segments was received.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	
Code List	ACQUISITION SOURCE CODE		
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentChannelInformation	Cardinality	0..600000
XML Level 2	biom:AcquisitionSourceCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.038_7

Vocal Segment Channel

Voice Modification Description Text

Mnemonic	VMT	Conditionality	O↑
		Status	New Active
Description	Unrestricted string for a description of any digital masking between transducer and recording, disguisers or other attempts to change the voice quality.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SegmentChannelInformation	Cardinality	0..600000
XML Level 2	biom:TransductionAlterationDescriptionText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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Vocal Segment Channel

Comments

Mnemonic	COM			Conditionality	O↑		
				Status	New Active		
Description	Unrestricted string for additional information to identify or describe the transduction and transmission channels of the identified segments.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SegmentChannelInformation				Cardinality	0..600000	
XML Level 2	biom:ChannelCommentText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.051

Comments

Mnemonic	COM			Conditionality	O↑		
				Status	New Active		
Description	Unrestricted text string that may contain comments of any type on the Type 11 record as a whole.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:AudioCommentText				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.902

Annotation Information

Mnemonic	ANN				Conditionality	O	
					Status	New Active	
Description	Listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type. Repeating sets of information items M↑						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars	n/a	
Format	n/a				Constraints	n/a	
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:ProcessAnnotation					Cardinality	0..1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.902_0

Annotated Information

Subfields: Repeating Sets Of Information Items

Mnemonic	ANN_0			Conditionality	D		
				Status	New Active		
Description	Listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type. Repeating sets of information items M↑						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.902_1

Annotation Information

Greenwich Mean Time

Mnemonic	GMT	Conditionality	M↑
		Status	New Active
Description	The Greenwich Mean Time (coordinated universal time – UTC) / GMT of when the processing occurred.		
Field Min	dependent on encoding	Occur Min	1
Field Max	dependent on encoding	Occur Max	1
Char Types	encoding specific	Special Chars	None
Format	encoding specific	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013		
XML Level 1	biom:ProcessAnnotation	Cardinality	0..*
XML Level 2	biom:ProcessUTCDate/nc:DateTime	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.902_2

Annotation Information

Processing Algorithm Name / Version

Mnemonic	NAV	Conditionality	M↑
		Status	New Active
Description	Field that contains the identifying the name and version of the processing algorithm / application / process or workstation.		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013		
XML Level 1	biom:ProcessAnnotation	Cardinality	0..*
XML Level 2	biom:ProcessName	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.902_3

Annotation Information

Algorithm Owner

Mnemonic	OWN	Conditionality	M↑
		Status	New Active
Description	The organization that developed / maintains the processing algorithm / application or latent workstation.		
Field Min	1	Occur Min	1
Field Max	64	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013		
XML Level 1	biom:ProcessAnnotation	Cardinality	0..*
XML Level 2	biom:ProcessOwnerText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.902_4

Annotation Information

Process Description

Mnemonic	PRO	Conditionality	M↑
		Status	New Active
Description	Describes the process or procedure applied.		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013		
XML Level 1	biom:ProcessAnnotation	Cardinality	0..*
XML Level 2	biom:ProcessDescriptionText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.993

Source Agency Name

Mnemonic	SAN				Conditionality	0		
					Status	New Active		
Description	The name of the agency referred to in Field 11.004: Source agency / SRC.							
Field Min	1				Occur Min	0		
Field Max	125				Occur Max	1		
Char Types	U				Special Chars	None		
Format	n/a				Constraints			
Code List								
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)							
XML Level 1	biom:CaptureOrganization					Cardinality	1..1	
XML Level 2	nc:OrganizationName					Cardinality	0..1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

11.994

External Reference File

Mnemonic	EFR				Conditionality	D		
					Status	New Active		
Description	Lists the organization that developed / maintains the processing algorithm / application or latent workstation.							
Field Min	1				Occur Min	0		
Field Max	200				Occur Max	1		
Char Types	U				Special Chars	None		
Format	n/a				Constraints			
Code List								
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)							
XML Level 1	biom:SourceExternalAnalogFileReferenceText or biom:SourceExternalDigitalAudioReferenceText o rbiom:SourceExternalDigitalVideoReferenceText or biom:SourceExternalFileReferenceText					Cardinality	0..1	
XML Level 2						Cardinality		
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.995

Associated Context

Mnemonic	ASC				Conditionality	O	
					Status	New Active	
Description	Describes a process or procedure applied to the sample. Refers to one or more Records Type-21 instances with the same ACN. Repeating M↑ subsets 1 to 255.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	255	
Char Types	n/a				Special Chars	n/a	
Format	n/a				Constraints		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:AssociatedContext					Cardinality	0..255
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.995_0

Associated Context

Subfields: Repeating Sets Of Information Items

Mnemonic	ASC_0			Conditionality	M↑		
				Status	New Active		
Description	Describes a process or procedure applied to the sample. Refers to one or more Records Type-21 instances with the same ACN. Repeating M↑ subsets 1 to 255.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	255		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:AssociatedContext				Cardinality	0..255	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Associated Context

Associated Context Number

Mnemonic	ACN			Conditionality	M↑		
				Status	New Active		
Description	Contains the associated context number / ACN for a particular Record Type-21. Mandatory for each Field xx.995, when the field is used.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= ACN <= 255; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:AssociatedContext				Cardinality	0..255	
XML Level 2	biom:ContextIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.995_2

Associated Context

Associated Segment Position

Mnemonic	ASP			Conditionality	O↑		
				Status	New Active		
Description	Contains the index to a particular set of segmentation coordinates of the associated context data. This same segmentation index value appears in Record Type-21 as the associated segment position / ASP in Field 21.016: Segments / SEG.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	1 <= ASP <= 99; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:AssociatedContext				Cardinality	0..255	
XML Level 2	biom:ImageSegmentIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.996

Hash

Mnemonic	HAS	Conditionality	0
		Status	New Active
Description	Applies to all digital audio records, whether stored in Field 11.999: Voice record data / DATA or reference to an external storage location in Field 11.994: External file reference / EFR and shall contain the hash value of the data, calculated using SHA-256. Enables the receiver of the digital data to check that the data has been transmitted correctly, and may also be used for quick searches of large databases to determine if the data already exists in the database.		
Field Min	64	Occur Min	0
Field Max	64	Occur Max	1
Char Types	H	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:DigitalAudioRecordHashValue	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.997

Source Representation

Mnemonic	SOR	Conditionality	0
		Status	New Active
Description	This optional field refers to a representation in Record Type-20 with the same SRN from which the data in Field 13.999: Latent friction ridge image / DATA was derived.		
Field Min	64	Occur Min	0
Field Max	64	Occur Max	255
Char Types	H	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)		
XML Level 1	biom:SourceRepresentation	Cardinality	0..255
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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11.997_1

Source Representation

Source Representation Number

Mnemonic	SRN			Conditionality	M↑		
				Status	New Active		
Description	Contains a reference number for the source representation stored in this record.						Repeating M↑ subsets 1 to 255.
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= SRN <= 255, positive integer		
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	biom:SourceRepresentation					Cardinality	0..255
XML Level 2	biom:SourceIdentification/nc:IdentificationID					Cardinality	1..1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

11.999

Data

Voice Data

Mnemonic	DATA			Conditionality	D		
				Status	New Active		
Description	If this field is used, Field 11.994: External file reference / EFR shall not be set. One of the two fields shall be present in this record unless Field 11.003: Audio object descriptor code /AOD has a value of 5. Field xx.999 is reserved in Record Types 10 and above for data associated with the record that is described in the other fields of the record. It does not appear in Type-18 or Type-98.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	Base64			Special Chars			
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2011: Update 2013 (Type-11)						
XML Level 1	nc:Base64BinaryObject				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-13: Variable-Resolution Latent Friction Ridge Image

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13.001

Record Header

Mnemonic	LEN		Conditionality	M	
			Status	Active	
Description	The record header appears as the first field (xx.001) in each Record Type. It contains information particular to the encoding format chosen, in order to enable proper reading of the record. In Traditional encoding, this field contains the record length in bytes (including all information separators). In NIEM-conformant XML encoding, this field contains the RecordCategoryCode, which is the numeric representation of the Record Type.				
Field Min	T = 4; X = 1		Occur Min	1	
Field Max	T = 8; X = 2		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	positive integer	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-13)				
XML Level 1	nist-itl:RecordCategoryCode			Cardinality	1...1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

13.002

Information Designation Character

Mnemonic	IDC	Conditionality	M				
		Status	Active				
Description	Each of the records present in a transaction, with the exception of the Type-1 record, shall include a field (xx.002) containing the information designation character / IDC. The value of the IDC shall be a sequentially assigned positive integer starting from zero and incremented by one up to a maximum of 99. IDC references are stated in Type-1 Field 1.003 Transaction content (CNT) and shall be used to relate information items in the CNT field of the Type-1 record to the other records in the transaction. Two or more records may share a single IDC solely to identify and link together records that pertain to different representations of the same biometric trait.						
Field Min	1	Occur Min	1				
Field Max	2	Occur Max	1				
Char Types	N	Special Chars	None				
Format	n/a	Constraints	0 <= IDC <= 99; integer				
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	nist-itl:ImageReferenceIdentification/nc:IdentificationID		Cardinality	1...1			
XML Level 2			Cardinality				
XML Level 3			Cardinality				
XML Level 4			Cardinality				
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-13: Variable-Resolution Latent Friction Ridge Image

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13.003

Impression Type

Mnemonic	IMP	Conditionality	M
		Status	Active
Description	This mandatory field shall indicate the manner by which the friction ridge print was obtained.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	FRICTION RIDGE IMPRESSION CODES		
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage	Cardinality	1..1
XML Level 2	biom_2:MinutiaeImpressionCaptureCategoryCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.004

Source Agency

Mnemonic	SRC	Conditionality	M
		Status	Active
Description	This is the identifier of the agency that actually created the record and supplied the information contained in it.		
Field Min	1	Occur Min	1
Field Max	*	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage	Cardinality	1..1
XML Level 2	biom_2:CaptureOrganization	Cardinality	1..1
XML Level 3	nc:OrganizationIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.005

Latent Capture Date

Mnemonic	LCD			Conditionality	M
				Status	Active
Description	This mandatory field shall contain the date that the latent biometric data contained in the record was captured.				
Field Min	Dependent upon encoding			Occur Min	1
Field Max	Dependent upon encoding			Occur Max	1
Char Types	N			Special Chars	None
Format	T = YYYYMMDD; X = <CaptureDate>			Constraints	Dependent upon encoding.
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-13)				
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage			Cardinality	1..1
XML Level 2	biom_2:CaptureDate/nc:Date			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

13.006

Horizontal Line Length

Mnemonic	HLL			Conditionality	M		
				Status	Active		
Description	HLL defines the number of pixels contained on a single horizontal line of the image. The maximum horizontal size is limited to 65,535 pixels in Record Types-4 and 8, and to 99,999 for other record types. The minimum value is 10 pixels.						
Field Min	2			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	10 <= HLL <= 99999; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage				Cardinality	1..1	
XML Level 2	biom_2:ImageHorizontalLineLengthPixelQuantity				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.007

Vertical Line Length

Mnemonic	VLL	Conditionality	M
		Status	Active
Description	VLL defines the number of horizontal lines contained in the image. The maximum vertical size is limited to 65,535 pixels in Record Types-4 and 8, and to 99,999 for other record types. The minimum value is 10 pixels.		
Field Min	2	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	10 <= VLL <= 99999; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage or biom:PalmpointImage or biom:PlantarImage or biom:FrictionRidgeImage	Cardinality	1..1
XML Level 2	biom_2:ImageVerticalLineLengthPixelQuantity	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.008

Scale Units

Mnemonic	SLC	Conditionality	M
		Status	Active
Description	The image sampling frequency (pixel density). A value of "1" shall indicate pixels per inch. A value of "2" shall indicate pixels per centimeter. A value of "0" in this field indicates that no scale is provided, and the quotient of THPS/TVPS shall provide the pixel aspect ratio.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	SLC = 0, 1 or 2
Code List	SCALE UNIT CODES		
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage or biom:PalmpointImage or biom:PlantarImage or biom:FrictionRidgeImage	Cardinality	1..1
XML Level 2	biom_2:ImageScaleUnitsCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.009

Transmitted Horizontal Pixel Scale

Mnemonic	THPS			Conditionality	M
				Status	Active
Description	This is the integer pixel density used in the horizontal direction of the image if SLC has a value of “1” or “2”. If SLC has a value of “0”, this information item shall contain the horizontal component of the pixel aspect ratio, up to 5 integer digits. For example, if the SLC value = 1, then the value of THPS could be ‘1000’ for a 1000 ppi sensor.				
Field Min	1			Occur Min	1
Field Max	5			Occur Max	1
Char Types	N			Special Chars	None
Format	n/a			Constraints	integer
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-13)				
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage			Cardinality	1..1
XML Level 2	biom_2:ImageHorizontalPixelDensityValue			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

13.01

Transmitted Vertical Pixel Scale

Mnemonic	TVPS		Conditionality	M	
			Status	Active	
Description	This is the integer pixel density used in the vertical direction of the image if SLC has a value of “1” or “2”. If SLC has a value of “0”, this information item shall contain the vertical component of the pixel aspect ratio, up to 5 integer digits. If SLC is 1 or 2, then TVPS shall equal THPS.				
Field Min	1		Occur Min	1	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	integer	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-13)				
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage			Cardinality	1..1
XML Level 2	biom_2:ImageVerticalPixelDensityValue			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-13: Variable-Resolution Latent Friction Ridge Image

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13.011

Compression Algorithm

Mnemonic	CGA			Conditionality	M		
				Status	Active		
Description	This is a mandatory field. It shall specify the algorithm used to compress the transmitted color or grayscale images.						
Field Min	3			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	n/a			Constraints	see Look Up Codes		
Code List	COMPRESSION CODES						
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage				Cardinality	1..1	
XML Level 2	biom_2:ImageCompressionAlgorithmText				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.012

Bits Per Pixel

Mnemonic	BPX			Conditionality	M		
				Status	Active		
Description	This ASCII field shall contain the number of bits used to represent a pixel. This field shall contain an entry of “8” for normal grayscale values of “0” to “255” or each RGB color component. Any entry in this field greater than “8” shall represent a grayscale or color pixel component with increased precision.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage				Cardinality	1..1	
XML Level 2	biom_2:ImageBitsPerPixelQuantity				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.013**Friction Ridge Generalized Position**

Mnemonic	FGP	Conditionality	M
		Status	Active
Description	This field is mandatory. Each subfield shall contain one possible finger, palm or plantar position that may match the latent image, up to a maximum of 6 possibilities. The code "0" shall be used to reference every finger position from 1 to 10, 16 and 17. The code "20" for "Unknown palm" shall be used to reference every listed palm print position. The code "60" for "Unknown sole" shall be used for every listed plantar position. Code "18" shall be used if it is unknown whether the print is from a hand or foot. Code "19" shall be used for a latent image that includes substantive portion of the medial or proximal segments of a finger, or the extreme tip of a fingerprint. If code 19 is used, fields 13.014 and 13.015 shall be used. See Look Up Codes for valid entries.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	FRICTION RIDGE GENERALIZED POSITION CODES		
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage	Cardinality	1..1
XML Level 2	biom_2:FingerPositionCode or biom_2:PalmPositionCode or biom_2:PlantarPositionCode or biom_2:FrictionRidgePositionCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.013_0**Friction Ridge Generalized Position****Subfield: Repeating Sets Of Information Items**

Mnemonic	FGP_0	Conditionality	M↑
		Status	New Active
Description	This field is mandatory. Each subfield shall contain one possible finger, palm or plantar position that may match the latent image, up to a maximum of 6 possibilities. The code "0" shall be used to reference every finger position from 1 to 10, 16 and 17. The code "20" for "Unknown palm" shall be used to reference every listed palm print position. The code "60" for "Unknown sole" shall be used for every listed plantar position. Code "18" shall be used if it is unknown whether the print is from a hand or foot. Code "19" shall be used for a latent image that includes substantive portion of the medial or proximal segments of a finger, or the extreme tip of a fingerprint. If code 19 is used, fields 13.014 and 13.015 shall be used. See Look Up Codes for valid entries.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	6
Char Types	N	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	FRICTION RIDGE GENERALIZED POSITION CODES		
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage	Cardinality	1..1
XML Level 2	biom_2:FingerPositionCode or biom_2:PalmPositionCode or biom_2:PlantarPositionCode or biom_2:FrictionRidgePositionCode	Cardinality	1..6
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.014

Search Position Descriptors

Mnemonic	SPD			Conditionality	D		
				Status	Active		
Description	Shall be present if and only if the finger position code "19" appears in Field 13.013. It is used to narrow the search of the latent image in this record against a database. The lack of an XML element is a structural anomaly. There is no element to represent the Field 13.014, and instead each information item repeats. This anomaly is retained for backward compatibility purposes.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage or biom:FrictionRidgeImage				Cardinality	1..1	
XML Level 2	biom:FingerprintImageMajorCasePrint				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.014_0

Search Position Descriptors

Subfield: Repeating Sets Of Information Items

Mnemonic	SPD_0		Conditionality	M↑	
			Status	New Active	
Description	Shall be present if and only if the finger position code "19" appears in Field 13.013. It is used to narrow the search of the latent image in this record against a database. The lack of an XML element is a structural anomaly. There is no element to represent the Field 13.014, and instead each information item repeats. This anomaly is retained for backward compatibility purposes.				
Field Min	n/a		Occur Min	1	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-13)				
XML Level 1	biom:FingerImpressionImage/biom_2:FingerprintImageMajorCasePrint			Cardinality	1..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.014_1

Search Position Descriptors

Probable Decimal Finger Position Code

Mnemonic	PDF	Conditionality	M↑
		Status	Active
Description	The first information item is the probable decimal finger position code (PDF) taken from the Look Up Codes, with integers 0 through 10, 16 or 17 allowed.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	9
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= PDF <= 10, or PDF = 16 or 17
Code List	FRICTION RIDGE GENERALIZED POSITION CODES		
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom_2:FingerprintImageMajorCasePrint	Cardinality	1..1
XML Level 2	biom_2:FingerPositionCode	Cardinality	0..9
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.014_2

Search Position Descriptors

Finger Image Code

Mnemonic	FIC	Conditionality	M↑
		Status	Active
Description	The second information item is finger image code(FIC). Latent images of full length fingers use codes FV1 through FV4. Other allowable codes are EJI, TIP, PRX, DST and MED. See Look Up Codes for valid entries.		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	9
Char Types	AN	Special Chars	None
Format	n/a	Constraints	FIC = EJI, TIP, FV1, FV2, FV3, FV4, PRX, DST or MED
Code List	PRINT POSITION DESCRIPTORS		
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom_2:FingerprintImageMajorCasePrint	Cardinality	1..1
XML Level 2	biom_2:MajorCasePrintCode	Cardinality	0..9
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.015

Print Position Coordinates

Mnemonic	PPC		Conditionality	D
			Status	Active
Description	This field may be present if and only if the finger position code “19” appears in Field 13.013: Friction ridge generalized position (FGP). It is an optional field. Individual full finger or segment definitions may be entered as separate subfields. For the case of a fingertip, the first information item shall be “TIP”, and the second information item shall be “NA”. When used, this field shall consist of six (6) mandatory information items describing the type or portion of the image contained in this record and its location within an EJI. This information will describe either the location of the entire joint image, one full finger view, or segment. Individual full finger or segment definitions may be repeated as repeating sets of information items.			
Field Min	n/a		Occur Min	0
Field Max	n/a		Occur Max	1
Char Types	n/a		Special Chars	n/a
Format	n/a		Constraints	n/a
Code List				
Source	ANSI/NIST ITL 1-2013 (Type-13)			
XML Level 1	biom:FingerImpressionImage/biom_2:FingerprintImageMajorCasePrint		Cardinality	1..1
XML Level 2	biom_2:MajorCasePrintSegmentOffset		Cardinality	0..1
XML Level 3			Cardinality	
XML Level 4			Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0 Yes DoD EBTS 4.0 Yes

13.015_0

Subfield: Repeating Sets Of Information Items

Mnemonic	PPC_0		Conditionality	M↑
			Status	New Active
Description	This field may be present if and only if the finger position code “19” appears in Field 13.013: Friction ridge generalized position (FGP). It is an optional field. Individual full finger or segment definitions may be entered as separate subfields. For the case of a fingertip, the first information item shall be “TIP”, and the second information item shall be “NA”. When used, this field shall consist of six (6) mandatory information items describing the type or portion of the image contained in this record and its location within an EJI. This information will describe either the location of the entire joint image, one full finger view, or segment. Individual full finger or segment definitions may be repeated as repeating sets of information items.			
Field Min	n/a		Occur Min	0
Field Max	n/a		Occur Max	12
Char Types	n/a		Special Chars	n/a
Format	n/a		Constraints	n/a
Code List				
Source	ANSI/NIST ITL 1-2013 (Type-13)			
XML Level 1	biom:FingerImpressionImage/biom_2:FingerprintImageMajorCasePrint		Cardinality	1..1
XML Level 2	biom_2:MajorCasePrintSegmentOffset		Cardinality	0..12
XML Level 3			Cardinality	
XML Level 4			Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0 Yes DoD EBTS 4.0 Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-13: Variable-Resolution Latent Friction Ridge Image

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13.015_1

Print Position Coordinates

Full Finger View

Mnemonic	FVC	Conditionality	M↑
		Status	Active
Description	The first information item is the full finger view / FVC with values of "FV1" through "FV4". Values of "FV1" to "FV4" specify the perspective for each full finger view. For a fingertip, the first information item shall be "TIP". FVC will contain the code "NA" if only a proximal, distal, or medial segment is available.		
Field Min	2	Occur Min	1
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	FVC = NA, TIP, FV1, FV2, FV3 or FV4; see Look Up Codes
Code List	PRINT POSITION DESCRIPTORS		
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom_2:FingerprintImageMajorCasePrint	Cardinality	1..1
XML Level 2	biom_2:MajorCasePrintSegmentOffset	Cardinality	0..12
XML Level 3	biom_2:SegmentFingerViewCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.015_2

Print Position Coordinates

Location of Segment

Mnemonic	LOS	Conditionality	M↑
		Status	Active
Description	The second information item is used to identify the location of a segment (LOS) within a full finger view. LOS will contain the not applicable code "NA" if the image portion refers to a full finger view, tip or to the entire joint image locations. Otherwise, it shall contain "PRX", "DST", "MED" for a proximal, distal, or medial segment, respectively		
Field Min	2	Occur Min	1
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	LOS = NA, PRX, DST or MED; see Look Up Codes
Code List	PRINT POSITION DESCRIPTORS		
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom_2:FingerprintImageMajorCasePrint	Cardinality	1..1
XML Level 2	biom_2:MajorCasePrintSegmentOffset	Cardinality	0..12
XML Level 3	biom_2:SegmentLocationCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.015_3

Print Position Coordinates

Left Horizontal Coordinate

Mnemonic	LHC	Conditionality	M↑
		Status	Active
Description	This information item is the horizontal offset in pixels to the left edge of the bounding box relative to the origin positioned in the upper left corner of the image.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= LHC <= HLL; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom_2:FingerprintImageMajorCasePrint	Cardinality	1..1
XML Level 2	biom_2:MajorCasePrintSegmentOffset	Cardinality	0..12
XML Level 3	biom_2:SegmentLeftHorizontalCoordinateValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.015_4

Print Position Coordinates

Right Horizontal Coordinate

Mnemonic	RHC	Conditionality	M↑
		Status	Active
Description	This information item is the horizontal offset in pixels to the right edge of the bounding box relative to the origin positioned in the upper left corner of the image.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= RHC <= HLL; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom_2:FingerprintImageMajorCasePrint	Cardinality	1..1
XML Level 2	biom_2:MajorCasePrintSegmentOffset	Cardinality	0..12
XML Level 3	biom_2:SegmentRightHorizontalCoordinateValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.015_5

Print Position Coordinates

Top Vertical Coordinate

Mnemonic	TVC			Conditionality	M↑		
				Status	Active		
Description	This information item is vertical offset (pixel counts down) to the top of the bounding box.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= TVC <= VLL; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage/biom_2:FingerprintImageMajorCasePrint				Cardinality	1..1	
XML Level 2	biom_2:MajorCasePrintSegmentOffset				Cardinality	0..12	
XML Level 3	biom_2:SegmentTopVerticalCoordinateValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.015_6

Print Position Coordinates

Bottom Vertical Coordinate

Mnemonic	BVC	Conditionality	M↑
		Status	Active
Description	This information item is the vertical offset from the upper left corner of the image down to the bottom of the bounding box. It is counted in pixels.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= BVC <= VLL; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom_2:FingerprintImageMajorCasePrint	Cardinality	1..1
XML Level 2	biom_2:MajorCasePrintSegmentOffset	Cardinality	0..12
XML Level 3	biom_2:SegmentBottomVerticalCoordinateValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-13: Variable-Resolution Latent Friction Ridge Image

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13.016

Scanned Horizontal Pixel Scale

Mnemonic	SHPS		Conditionality	0	
			Status	Active	
Description	This ASCII field shall specify the horizontal pixel density used for scanning providing the SLC field contains a "1" or a "2". Otherwise, it indicates the horizontal component of the pixel aspect ratio.				
Field Min	1		Occur Min	0	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	positive integer	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-13)				
XML Level 1	biom:FingerImpressionImage/biom_1:ImageCaptureDetail or biom:PalmpointImage/biom_1:ImageCaptureDetail or biom:PlantarImage/biom_1:ImageCaptureDetail or biom:FrictionRidgeImage/biom_1:ImageCaptureDetail			Cardinality	1..1
XML Level 2	biom_2:CaptureHorizontalPixelDensityValue			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

13.017

Scanned Vertical Pixel Scale

Mnemonic	SVPS		Conditionality	0	
			Status	Active	
Description	This ASCII field shall specify the vertical pixel density used for scanning providing the SLC field contains a "1" or a "2". Otherwise, it indicates the vertical component of the pixel aspect ratio.				
Field Min	1		Occur Min	0	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	positive integer	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-13)				
XML Level 1	biom:FingerImpressionImage/biom_1:ImageCaptureDetail or biom:PalmpointImage/biom_1:ImageCaptureDetail or biom:PlantarImage/biom_1:ImageCaptureDetail or biom:FrictionRidgeImage/biom_1:ImageCaptureDetail			Cardinality	1..1
XML Level 2	biom_2:CaptureVerticalPixelDensityValue			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-13: Variable-Resolution Latent Friction Ridge Image

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13.018

Ruler or Scale Presence

Mnemonic	RSP	Conditionality	0
		Status	Active
Description	This optional field allows the user to state whether a ruler or other known scale is present in the image.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage	Cardinality	1..1
XML Level 2	biom_2:RulerScalePresenceInformation or biom_2:StandardFingerprintFormNumberText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

13.018_1

Ruler or Scale Presence

Ruler or Scale Units

Mnemonic	RSU	Conditionality	D
		Status	Active
Description	The first information item, ruler or scale units (RSU), indicates the units of measurement visible on the ruler or measurement scale		
Field Min	2	Occur Min	0
Field Max	4	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	RSP = IN, MM, BOTH; See Look Up Codes
Code List	RULER OR SCALE UNIT CODES		
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage	Cardinality	1..1
XML Level 2	biom_2:RulerScalePresenceInformation or biom_2:StandardFingerprintFormNumberText	Cardinality	0..1
XML Level 3	biom_2:RulerScaleUnitCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-13: Variable-Resolution Latent Friction Ridge Image

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13.018_2

Ruler or Scale Presence

Ruler or Scale Make

Mnemonic	RSM	Conditionality	D
		Status	Active
Description	The second information item, ruler or scale make (RSM), lists the maker of the ruler or scale (if known).		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage	Cardinality	1..1
XML Level 2	biom_2:RulerScalePresenceInformation or biom_2:StandardFingerprintFormNumberText	Cardinality	0..1
XML Level 3	biom_2:RulerScaleMakeText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

13.018_3

Ruler or Scale Presence

Ruler or Scale Model

Mnemonic	RSO	Conditionality	D
		Status	Active
Description	The third information item, ruler or scale model (RSO), lists the model of the ruler or scale (if known).		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage	Cardinality	1..1
XML Level 2	biom_2:RulerScalePresenceInformation or biom_2:StandardFingerprintFormNumberText	Cardinality	0..1
XML Level 3	biom_2:RulerScaleModelText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-13: Variable-Resolution Latent Friction Ridge Image

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13.018_4

Ruler or Scale Presence

Standard Fingerprint Form Number

Mnemonic	RSF			Conditionality	D		
				Status	Active		
Description	The fourth information item, standard fingerprint form number (RSF) permits entry of a standard fingerprint form number such as FD-249, FD-258 or C-216C. If RSF is specified, none of the other three information items (RSU, RSM or RSO) shall be specified. Conversely, if any of those three information items is present, RSF shall not appear in this field.						
Field Min	1			Occur Min	0		
Field Max	99			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:RulerScalePresenceInformation or biom_2:StandardFingerprintFormNumberText				Cardinality	0..1	
XML Level 3	biom_2:StandardFingerprintFormNumber				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

13.019

Resolution Method

Mnemonic	REM			Conditionality	O		
				Status	Active		
Description	This optional field states the method used for determining the pixel density of the image. The second through the seventh information items are mandatory if MDR = RULER and are optional if MDR = FORM. They shall not be used for other values of MDR. When the known scale coordinates are used, the resolution can be calculated as the distance in pixels between points A and B divided by KSL. The pixel counts used in SXA, SYA, SXB, SYB are zero-based. The top left pixel has coordinates (0,0). If the transmitted pixel density of an image in Field 13.009: Transmitted horizontal pixel scale (THPS) and Field 13.010: Transmitted vertical pixel scale (TVPS) differs from the scanned (original) pixel density stated in Field 13.016: Scanned horizontal pixel scale (SHPS) and Field 13.017: Scanned vertical pixel scale (SVPS), then the values in this field are with respect to the scanned pixel density and shall not be recalculated to correspond to the transmitted pixel density.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:ResolutionMethodInformation				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-13: Variable-Resolution Latent Friction Ridge Image

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13.019_1

Resolution Method

Means of Determining Resolution

Mnemonic	MDR			Conditionality	M↑		
				Status	Active		
Description	The first information item, means of determining resolution (MDR), specifies whether the resolution is calculated (from a ruler or known scale), estimated (by a human or computer), or is from a known source (such as a flatbed scanner or standard form).						
Field Min	1			Occur Min	0		
Field Max	9			Occur Max	1		
Char Types	AS			Special Chars	None		
Format	n/a			Constraints	MDR = FLATBED, FIXED, RULER, FORM, EST-HUMAN, EST-AUTO		
Code List	MEANS OF DETERMINING RESOLUTION CODES						
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:ResolutionMethodInformation				Cardinality	0..1	
XML Level 3	biom_2:ResolutionMeansCode				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

13.019_2

Resolution Method

Known Scale Length

Mnemonic	KSL			Conditionality	D		
				Status	Active		
Description	The second information item, known scale units (KSL), specifies the length of the known scale from point A to point B. It may contain a period.						
Field Min	1			Occur Min	0		
Field Max	6			Occur Max	1		
Char Types	NS			Special Chars	Period		
Format	n/a			Constraints	0.01 <= KSL <= 999.00; maximum of two digits to right of decimal		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:ResolutionMethodInformation				Cardinality	0..1	
XML Level 3	biom_2:ResolutionScaleLength				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.019_3

Resolution Method

Known Scale Units

Mnemonic	KSU			Conditionality	D		
				Status	Active		
Description	The third information item, known scale units (KSU) indicates whether the known scales units are in inches or millimeters.						
Field Min	2			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	KSU = IN or MM		
Code List	RULER OR SCALE UNIT CODES						
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:ResolutionMethodInformation				Cardinality	0..1	
XML Level 3	biom_2:ResolutionScaleUnitCode				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

13.019_4

Resolution Method

Known Scale X Coordinate for Point A

Mnemonic	SXA			Conditionality	D		
				Status	Active		
Description	The fourth information item, known scale x coordinate for point A (SXA) is expressed in number of pixels from the left of the image.						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	Integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:ResolutionMethodInformation				Cardinality	0..1	
XML Level 3	biom_2:ResolutionScaleXCoordinateA				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-13: Variable-Resolution Latent Friction Ridge Image

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13.019_5

Resolution Method

Known Scale Y Coordinate for Point A

Mnemonic	SYA			Conditionality	D		
				Status	Active		
Description	The fifth information item, known scale y coordinate for point A (SYA) is expressed in number of pixels from the top of the image.						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	Integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:ResolutionMethodInformation				Cardinality	0..1	
XML Level 3	biom_2:ResolutionScaleYCoordinateA				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

13.019_6

Resolution Method

Known Scale X Coordinate for Point B

Mnemonic	SXB			Conditionality	D		
				Status	Active		
Description	The sixth information item, known scale x coordinate for point B (SXB) is expressed in number of pixels from the left of the image.						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	Integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:ResolutionMethodInformation				Cardinality	0..1	
XML Level 3	biom_2:ResolutionScaleXCoordinateB				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-13: Variable-Resolution Latent Friction Ridge Image

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13.019_7

Resolution Method

Known Scale Y Coordinate for Point B

Mnemonic	SYB			Conditionality	D		
				Status	Active		
Description	The seventh information item, known scale y coordinate for point B (SYB) is expressed in number of pixels from the top of the image.						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	Integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:ResolutionMethodInformation				Cardinality	0..1	
XML Level 3	biom_2:ResolutionScaleYCoordinateB				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

13.019_8

Resolution Method

Comment

Mnemonic	COM			Conditionality	O↑		
				Status	Active		
Description	The eighth information item, comment (COM), is a UNICODE text comment or description provided by the examiner about the resolution method.						
Field Min	1			Occur Min	0		
Field Max	99			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints	Integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:ResolutionMethodInformation				Cardinality	0..1	
XML Level 3	biom_2:ResolutionCommentText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.02

Comment

Mnemonic	COM	Conditionality	0
		Status	Active
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.		
Field Min	1	Occur Min	0
Field Max	126	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage or biom:PalmpointImage or biom:PlantarImage or biom:FrictionRidgeImage	Cardinality	1..1
XML Level 2	biom_2:ImageCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.024

Latent Quality Metric

Mnemonic	LQM	Conditionality	0
		Status	Active
Description	This optional field is used to specify one or more different metrics of latent image quality score data for the image stored in this record.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage or biom:PalmpointImage or biom:PlantarImage or biom:FrictionRidgeImage	Cardinality	1..1
XML Level 2	biom_2:FingerprintImageQuality or biom_2:PalmpointImageQuality or biom_2:PlantarImageQuality or biom_2:FrictionRidgeImageQuality	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-13: Variable-Resolution Latent Friction Ridge Image

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13.024_0

Latent Quality Metric

Mnemonic	LQM_0	Conditionality	M↑
		Status	New Active
Description	This optional field is used to specify one or more different metrics of latent image quality score data for the image stored in this record.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	9
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage	Cardinality	1..1
XML Level 2	biom_2:FingerprintImageQuality or biom_2:PalmprintImageQuality or biom_2:PlantarImageQuality or biom_2:FrictionRidgeImageQuality	Cardinality	0..9
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

13.024_1

Latent Quality Metric

Friction Ridge Metric Position

Mnemonic	FRMP	Conditionality	M↑
		Status	Active
Description	The first information item is the entry in Field 13.013: Friction ridge generalized position (FGP). This information item is called the friction ridge metric position (FRMP) to differentiate it from FGP.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	FRICTION RIDGE GENERALIZED POSITION CODES		
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage	Cardinality	1..1
XML Level 2	biom_2:FingerprintImageQuality or biom_2:PalmprintImageQuality or biom_2:PlantarImageQuality or biom_2:FrictionRidgeImageQuality	Cardinality	0..9
XML Level 3	biom_2:FingerPositionCode or biom_2:PalmPositionCode or biom_2:PlantarPositionCode or biom_2:FrictionRidgePositionCode	Cardinality	0..9
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.024_2

Latent Quality Metric

Quality Value

Mnemonic	QVU			Conditionality	M ↑		
				Status	Active		
Description	The first information item shall be a quantitative expression of the predicted matching performance of the biometric sample, which is a quality value (QVU). This information item shall contain the integer image quality score between 0 and 100 (inclusive) assigned to the image data by a quality algorithm. Higher values indicate better quality. An entry of “255” shall indicate a failed attempt to calculate a quality score. An entry of “254” shall indicate that no attempt to calculate a quality score was made.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= QVU <= 100 or QVU = 254 or 255; integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage or biom:PalmpointImage or biom:PlantarImage or biom:FrictionRidgeImage				Cardinality	1..1	
XML Level 2	biom_2:FingerprintImageQuality or biom_2:PalmpointImageQuality or biom_2:PlantarImageQuality or biom_2:FrictionRidgeImageQuality				Cardinality	0..9	
XML Level 3	biom_2:QualityValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.024_3

Latent Quality Metric

Algorithm Vendor Identification

Mnemonic	QAV		Conditionality	M↑	
			Status	Active	
Description	The second information item shall specify the ID of the vendor of the quality algorithm used to calculate the quality score, which is an algorithm vendor identification (QAV). This 4-digit hex value is assigned by IBIA and expressed as four characters. The IBIA maintains the Vendor Registry of CBEFF Biometric Organizations that map the value in this field to a registered organization				
Field Min	4		Occur Min	1	
Field Max	4		Occur Max	1	
Char Types	H		Special Chars	None	
Format	n/a		Constraints	0000 <= QAV <= FFFF	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-13)				
XML Level 1	biom:FingerImpressionImage or biom:PalmpointImage or biom:PlantarImage or biom:FrictionRidgeImage			Cardinality	1..1
XML Level 2	biom_2:FingerprintImageQuality or biom_2:PalmpointImageQuality or biom_2:PlantarImageQuality or biom_2:FrictionRidgeImageQuality			Cardinality	0..9
XML Level 3	biom_2:QualityAlgorithmVendorIdentification/nc:IdentificationID			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

13.024_4Latent Quality Metric*Algorithm Product Identification*

Mnemonic	QAP			Conditionality	M ↑		
				Status	Active		
Description	The third information item shall specify a numeric product code assigned by the vendor of the quality algorithm, which may be registered with the IBIA, but registration is not required. This is the algorithm product identification (QAP) that indicates which of the vendor’s algorithms was used in the calculation of the quality score. This information item contains the integer product code and should be within the range 1 to 65,535.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= QAP <= 65535; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage or biom:PalmpointImage or biom:PlantarImage or biom:FrictionRidgeImage				Cardinality	1..1	
XML Level 2	biom_2:FingerprintImageQuality or biom_2:PalmpointImageQuality or biom_2:PlantarImageQuality or biom_2:FrictionRidgeImageQuality				Cardinality	0..9	
XML Level 3	biom_2:QualityAlgorithmProductIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.046Image Subject Condition

Mnemonic	SUB			Conditionality	O		
				Status	Active		
Description	This field is optional. This field is particularly useful if the image is obtained from a deceased person. However, its use is not limited to such circumstances. Some implementation domains support the submission of fingerprints taken from deceased individuals as latent prints, due to the quality of the friction ridges and the resulting images. In such cases, SSC is specified as D. For latent images taken from a surface, the value is typically X.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage or biom:PalmpointImage or biom:PlantarImage or biom:FrictionRidgeImage				Cardinality	1..1	
XML Level 2	biom_2:SubjectExistentialDetails				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.046_1

Image Subject Condition

Subject Status Code

Mnemonic	SSC	Conditionality	M↑
		Status	Active
Description	The first information item is mandatory if this field is present. It is subject status code (SSC).		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	SSC = X, A, or D
Code List	SUBJECT STATUS CODES		
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage	Cardinality	1..1
XML Level 2	biom_2:SubjectExistentialDetails	Cardinality	0..1
XML Level 3	biom_2:SubjectExistentialStatusCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

13.046_2

Image Subject Condition

Subject Body Status Code

Mnemonic	SBSC	Conditionality	D
		Status	Active
Description	The second information item shall be entered if and only if SSC is D. It is subject body status code (SBSC). Its purpose is to indicate whether the information relates to an entire corpse or a separate body part.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	SBSC = 1 or 2
Code List	SUBJECT BODY STATUS CODES		
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage	Cardinality	1..1
XML Level 2	biom_2:SubjectExistentialDetails	Cardinality	0..1
XML Level 3	biom_2:SubjectBodyStatusCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.046_3

Image Subject Condition

Subject Body Class Code

Mnemonic	SBCC	Conditionality	D
		Status	Active
Description	The third information item shall be entered if and only if SSC is D. It is subject body class code (SBCC).		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	SBCC = 1 or 2
Code List	SUBJECT BODY CLASS CODES		
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage or biom:PalmprintImage or biom:PlantarImage or biom:FrictionRidgeImage	Cardinality	1..1
XML Level 2	biom_2:SubjectExistentialDetails	Cardinality	0..1
XML Level 3	biom_2:SubjectBodyClassCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

13.047

Capture Organization Name

Mnemonic	CON	Conditionality	O
		Status	Active
Description	This field is optional. Note that this can be different from the agency entered in Field 13.004: Source agency (SRC) and Field 13.993: Source agency name (SAN). SRC and SAN describe the agency that created the record. Since the record may have been forwarded by another agency to the final destination, Field 1.008: Originating agency identifier (ORI) is used to indicate the transmitting organization. In many implementation domains, there are a limited number of transmission organizations that can send data. Therefore, the agency listed in SRC may send the transaction to another location that has access rights to the final destination. This intermediary may add information to the transaction, as well. The final transmitting organization code is listed in Field 1.008: Originating agency identifier (ORI). Its name may be entered in Originating agency name (OAN) in Field 1.017: Agency names (ANM).		
Field Min	1	Occur Min	0
Field Max	1000	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmprintImage/biom1:ImageCaptureDetail or biom:PlantarImage/biom1:ImageCaptureDetail or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureOrganization	Cardinality	1..1
XML Level 3	nc:OrganizationUnitName	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.902

Annotated Information

Mnemonic	ANN			Conditionality	0		
				Status	Active		
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom_2:ProcessAnnotation				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.902_0

Annotated Information

Subfield: Repeating Sets Of Information Items

Mnemonic	ANN_0			Conditionality	M↑		
				Status	New Active		
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom_2:ProcessAnnotation				Cardinality	0..*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Annotated Information

Greenwich Mean Time

Mnemonic	GMT			Conditionality	M↑		
				Status	Active		
Description	This information item is the Greenwich Mean Time (GMT) when the processing occurred. The data is formatted as YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. This time is independent of the actual time zone where the time and date is recorded.						
Field Min	15			Occur Min	1		
Field Max	15			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding			Constraints	Dependent upon encoding		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom_2:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom_2:ProcessUTCDate/nc:DateTime				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.902_2

Annotated Information

Processing Algorithm Name / Version

Mnemonic	NAV			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain text identifying the name and version of the processing algorithm, application, procedure, or workstation						
Field Min	1			Occur Min	1		
Field Max	*			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom_2:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom_2:ProcessName				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.902_3

Annotated Information

Algorithm Owner

Mnemonic	OWN	Conditionality	M↑
		Status	Active
Description	This information item shall contain an unformatted text string of up to 64 characters with the contact information for the organization that owns the processing algorithm or latent workstation. Where there is no 'algorithm owner,' enter N/A.		
Field Min	1	Occur Min	1
Field Max	64	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom_2:ProcessAnnotation	Cardinality	0..*
XML Level 2	biom_2:ProcessOwnerText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.902_4

Annotated Information

Process Description

Mnemonic	PRO	Conditionality	M↑
		Status	Active
Description	This information item field shall contain text describing a process or procedure applied to the sample in this Type-9 record.		
Field Min	1	Occur Min	1
Field Max	255	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom_2:ProcessAnnotation	Cardinality	0..*
XML Level 2	biom_2:ProcessDescriptionText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.903

Device Unique Identifier

Mnemonic	DUI	Conditionality	O
		Status	Active
Description	The DUI shall contain a string uniquely identifying the device or source of the data. This field shall be one of the following: a Host PC MAC address (identified by the first character "M"), a Host PC processor ID (identified by the first character "P"). since it is available in the Make / Model / Serial Number field.		
Field Min	13	Occur Min	0
Field Max	16	Occur Max	1
Char Types	ANS	Special Chars	Any
Format	n/a	Constraints	First character = M or P
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom_2:ProcessAnnotation	Cardinality	0..*
XML Level 2	biom_2:CaptureDeviceIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

13.904

Make/Model/Serial Number

Mnemonic	MMS	Conditionality	O
		Status	Active
Description	The MMS contains the make, model and serial number for the capture device. It shall consist of three information items. Each information item shall be 1 to 50 characters. Unknown information may be indicated with the value "0." Any or all information items may indicate that information is unknown with the value "0".		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImage/biom1:ImageCaptureDetail or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.904_1

Make/Model/Serial Number

Make

Mnemonic	MAK			Conditionality	M↑		
				Status	Active		
Description	The name of the manufacturer for the capture device.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	"0" = Unknown		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImage/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail				Cardinality	1..1	
XML Level 2	biom_2:CaptureDeviceMakeText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.904_2

Make/Model/Serial Number

Model

Mnemonic	MOD			Conditionality	M↑		
				Status	Active		
Description	The model number for the capture device.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	"0" = Unknown		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImage/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail				Cardinality	1..1	
XML Level 2	biom_2:CaptureDeviceModelText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.904_3

Make/Model/Serial Number

Serial Number

Mnemonic	SER	Conditionality	M↑
		Status	Active
Description	The serial number for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	"0" = Unknown
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImage/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureDeviceSerialNumberText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

13.993

Source Agency Name

Mnemonic	SAN	Conditionality	O
		Status	Active
Description	This is an optional field. It may contain up to 125 Unicode characters. It is the name of the agency referenced in Field xx.004: Source agency / SRC for record types 9-99.		
Field Min	1	Occur Min	0
Field Max	125	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImage/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureOrganization	Cardinality	1..1
XML Level 3	nc:OrganizationName	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.995

Associated Context

Mnemonic	ASC			Conditionality	0		
				Status	Active		
Description	This optional field refers to one or more Type 21 Records with the same ACN. Type 21 Records contain images that are NOT used to derive the biometric data in Field 13.999: Latent friction ridge image (DATA) but that may be relevant to the collection of that data, such as general scenes of the area where a latent print was found.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom_2:AssociatedContext				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.995_0

Associated Context

Mnemonic	ASC_0			Conditionality	M↑		
				Status	New Active		
Description	This optional field refers to one or more Type 21 Records with the same ACN. Type 21 Records contain images that are NOT used to derive the biometric data in Field 13.999: Latent friction ridge image (DATA) but that may be relevant to the collection of that data, such as general scenes of the area where a latent print was found.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	255		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom_2:AssociatedContext				Cardinality	0..255	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.995_1

Associated Context

Associated Context Number

Mnemonic	ACN			Conditionality	M ↑		
				Status	Active		
Description	The first information item for the Associated Context field for a particular Record Type-21. This is mandatory for each Field xx.995, when the field is used. It contains an index to a particular instance of a Type-21 record in the transaction. This same index value appears in the appropriate instance of Record Type-21 as Field 21.021: Associated context number (CAN). The value of the CAN shall be a sequentially assigned a positive integer starting from one and incremented by one, not to exceed 255.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	n/a			Special Chars	None		
Format	n/a			Constraints	1 <= ACN <= 255; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom_2:AssociatedContext				Cardinality	0..255	
XML Level 2	biom_2:ContextIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.995_2

Associated Context

Associated Segment Position

Mnemonic	ASP			Conditionality	O↑		
				Status	Active		
Description	The first information item is the associated segment position (ASP). This provides a unique index to a segmentation.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	1 <= ASP <= 99; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom_2:AssociatedContext				Cardinality	0..255	
XML Level 2	biom_2:ImageSegmentIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.996

Hash

Mnemonic	HAS			Conditionality	0		
				Status	Active		
Description	Optional field xx.996, is designed for use in Record types 10 and above with a Field xx.999 storing the biometric data. It is comprised of 64 characters representing hexadecimal values. Thus, each character may be a digit from “0” to “9” or a letter “A” through “F”. See the latest version of the Federal Information Processing Standard 180, Secure Hash Standard for information on computing SHA-256 hashes. At the time of this standard’s publication, FIPS 180-37 had been published. It is also possible to use Field xx.996 to contain the hash for data stored externally, which is referenced in Field 20.994: External file reference (EFR) and/or Field 21.994: External file reference (EFR). The ability to store files externally is new to this version of the standard, and is only implemented for the two new record types referred to here. Use of the hash enables the receiver of the data to perform quick searches of large databases to determine if the data already exist in the database. It is not intended as an information assurance check. That is handled by Record Type-98: Information assurance record.						
Field Min	64			Occur Min	0		
Field Max	64			Occur Max	1		
Char Types	H			Special Chars	None		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom_2:ImageHashValue				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.997

Source Representation

Mnemonic	SOR			Conditionality	0		
				Status	Active		
Description	This optional field refers to a representation in Record Type-20 with the same SRN from which the data in Field 13.999: Latent friction ridge image (DATA) was derived.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom_2:SourceRepresentation				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.997_0

Source Representation

Mnemonic	SOR_0			Conditionality	M↑		
				Status	New Active		
Description	This optional field refers to a representation in Record Type-20 with the same SRN from which the data in Field 13.999: Latent friction ridge image (DATA) was derived.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	255		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom_2:SourceRepresentation				Cardinality	0..255	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.997_1

Source Representation

Source Representation Number

Mnemonic	SRN			Conditionality	M↑		
				Status	Active		
Description	This is the first information item and is mandatory for each Field xx.997. It contains an index to a particular instance of a Type-20 record in the transaction. This same index value appears in the appropriate instance of Record Type-20 as Field 20.021: Source representation number (SRN). The value of the SRN shall be a sequentially assigned a positive integer starting from one and incremented by one, not to exceed 255.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= SRN <= 255; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom_2:SourceRepresentation				Cardinality	0..255	
XML Level 2	biom_2:SourceIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.997_2

Source Representation

Reference Segment Position

Mnemonic	RSP			Conditionality	0↑		
				Status	Active		
Description	The first information item is the reference segment position (RSP). This provides a unique index to a segmentation.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= RSP <= 99; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	biom_2:SourceRepresentation				Cardinality	0..255	
XML Level 2	biom_2:ImageSegmentIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

13.998

Geographic Sample Acquisition Location

Mnemonic	GEO	Conditionality	0
		Status	Active
Description	This optional field contains the location where the iris sample/original source/context information was acquired – not where it is stored.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImage/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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13.998_01

Geographic Sample Acquisition Location

Universal Time Entry

Mnemonic	UTE	Conditionality	O↑
		Status	Active
Description	The coordinated universal time (UTC) where the biometric sample was collected. This time is independent of the actual time zone where the time and date is recorded. The date is YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. If sample collection time is unknown, set it to "00000000000000Z."		
Field Min	15	Occur Min	0
Field Max	15	Occur Max	1
Char Types	AN	Special Chars	None
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding	Constraints	Dependent upon encoding
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImage/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3	biom:CaptureUTCDateTime/nc:DateTime	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

13.998_02

Geographic Sample Acquisition Location

Latitude Degree Value

Mnemonic	LTD	Conditionality	D
		Status	Active
Description	The second information item is latitude degree value (LTD). This is a value that specifies the degree of latitude. The value shall be between -90 (inclusive) and +90 (inclusive). The degrees may be expressed as an integer (without a decimal) or a real number including decimals. If decimals are present, then minutes and seconds shall be empty. Examples: Buenos Aires, Argentina: -34 (with minutes LTM = 36) NIST, Gaithersburg, Maryland: 39.137627 (no LTM or LTS)		
Field Min	1	Occur Min	0
Field Max	9	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	=-90 <= LTD <= 90
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImage/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LatitudeDegreeValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

13.998_03Geographic Sample Acquisition Location*Latitude Minute Value*

Mnemonic	LTM	Conditionality	D
		Status	Active
Description	This information item is latitude minute value (LTM). This is a value that specifies a minute of a degree. The value shall be between 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall be empty. Thus, the allowed special character is a period. The minute value can be empty, even if the degree value is an integer. LTM and LGM are co-conditional, so they shall both be present if either is present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	0 <= LTM < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImag/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LatitudeMinuteValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

13.998_04Geographic Sample Acquisition Location*Latitude Second Value*

Mnemonic	LTS	Conditionality	D
		Status	Active
Description	The fourth information item is the latitude second value (LTS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LTS < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImag/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LatitudeSecondValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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Geographic Sample Acquisition Location

Longitude Degree Value

Mnemonic	LGD	Conditionality	D
		Status	Active
Description	The fifth information item is the longitude degree value (LGD). It is a value that specifies the degree of a longitude. The value shall be between -180 (inclusive) and +180 (inclusive). If LTD is present, then LGD shall be present. The degrees may be expressed as whole numbers (without a decimal) or real numbers including decimals. If decimals are present, then minutes and seconds are empty. Examples: Buenos Aires, Argentina: -58 (with minutes LGM = 22), NIST, Gaithersburg, Maryland: -77.216032 (no LGM or LGS)		
Field Min	1	Occur Min	0
Field Max	10	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	-180 <= LGD <= 180
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImag/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeDegreeValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

13.998_06

Geographic Sample Acquisition Location

Longitude Minute Value

Mnemonic	LGM	Conditionality	D
		Status	Active
Description	The sixth information item is the longitude minute value (LGM). It is a value that specifies a minute of a degree. The value shall be from 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall not appear. The minute value is empty, even if the degree value is an integer. If LTM is present, then LGM shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	0 <= LGM < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImag/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeMinuteValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Geographic Sample Acquisition Location

Longitude Second Value

Mnemonic	LGS	Conditionality	D
		Status	Active
Description	The seventh information item is the longitude second value (LGS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer. If LTS is present, then LGS shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LGS < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImage/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeSecondValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

13.998_08

Geographic Sample Acquisition Location

Elevation

Mnemonic	ELE	Conditionality	O
		Status	Active
Description	The eighth information item is elevation (ELE). It is expressed in meters. It is a numeric value. It is between -422 meters (Dead Sea) and 8848 meters (Mount Everest). Allowed special characters are the negative sign and the period.		
Field Min	3	Occur Min	1
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Minus Sign,Period
Format	n/a	Constraints	-422.000 < ELE < 8848.000; real number
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImage/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationGeographicElevation	Cardinality	0..1
XML Level 4	nc:MeasurePoint	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Geographic Sample Acquisition Location

Geodetic Datum Code

Mnemonic	GDC	Conditionality	O
		Status	Active
Description	The ninth information item is the geodetic datum code (GDC11). It is an alphanumeric value of 3 to 6 characters in length. This information item is used to indicate which coordinate system was used to represent the values in information items 2 through 7. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values.		
Field Min	2	Occur Min	0
Field Max	6	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	GEOGRAPHIC COORDINATE DATUM CODE		
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImag/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	biom:GeodeticDatumCoordinateSystemCode or biom:GeodeticDatumCoordinateSystemName	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

13.998_10

Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Zone

Mnemonic	GCM	Conditionality	D
		Status	Active
Description	It is an alphanumeric value of 2 to 3 characters. This is a one or two digit UTM zone number followed by the 8 degree latitudinal band designator (which is a single letter).		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	One or two digit UTM zone
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImag/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 4	nc:UTMGridZoneID	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

13.998_11

Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Easting

Mnemonic	GCE	Conditionality	D
		Status	Active
Description	The eleventh information item is the geographic coordinate universal transverse Mercator easting (GCE). It is an integer of 1 to 6 digits.		
Field Min	1	Occur Min	0
Field Max	6	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= GCE; integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImag/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 4	nc:UTMEastingValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

13.998_12

Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Northing

Mnemonic	GCN	Conditionality	D
		Status	Active
Description	The twelfth information item is the geographic coordinate universal transverse Mercator northing (GCN). It is an integer of 1 to 8 digits.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= GCN; integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImag/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 4	nc:UTMNorthingValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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Geographic Sample Acquisition Location

Geographic Reference Text

Mnemonic	GRT	Conditionality	O
		Status	Active
Description	It is a free form text describing a street address or other physical location (such as 'Corner of Washington and Madison, Geneva, NY').		
Field Min	1	Occur Min	0
Field Max	150	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImag/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3	biom:GeographicLocationText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

13.998_14

Geographic Sample Acquisition Location

Geographic Coordinate Other System Identifier

Mnemonic	OSI	Conditionality	O
		Status	Active
Description	A fourteenth optional information item geographic coordinate other system identifier (OSI) allows for other coordinate systems. This information items specifies the system identifier. It is up to 10 characters in length. Examples are: • MGRS (Military Grid Reference System), • USNG (United States National Grid), • GARS (Global Area Reference System), • GEOREF (World Geographic Reference), • LANDMARK landmark (e.g. hydant) and position relative to the landmark.		
Field Min	1	Occur Min	0
Field Max	10	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-13)		
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImag/biom1:ImageCaptureDetail e or biom:FrictionRidgeImage/biom1:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationAlternateGeographicSystemValue	Cardinality	0..1
XML Level 4	biom:GeographicLocationSystemName	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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13.998_15

Geographic Sample Acquisition Location

Geographic Coordinate Other System Value

Mnemonic	OCV		Conditionality	D	
			Status	Active	
Description	A fifteenth optional information item, is the geographic coordinate other system value (OCV). It shall only be present if OSI is present in the record. It can be up to 126 characters in length. If OSI is LANDMARK, OCV is free text and may be up to 126 characters. For details on the formatting of OCV for the other coordinate systems shown in OSI as examples, see http://earth-info.nga.mil/GandG/coordsys/grids/referencesys.html .				
Field Min	1	Occur Min	1		
Field Max	126	Occur Max	1		
Char Types	U	Special Chars	Any		
Format	n/a	Constraints	None		
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-13)				
XML Level 1	biom:FingerImpressionImage/biom1:ImageCaptureDetail or biom:PalmpointImage/biom1:ImageCaptureDetail or biom:PlantarImage/biom1:ImageCaptureDetail or biom:FrictionRidgeImage/biom1:ImageCaptureDetail		Cardinality	1..1	
XML Level 2	biom_2:CaptureLocation		Cardinality	0..1	
XML Level 3	biom:LocationAlternateGeographicSystemValue		Cardinality	0..1	
XML Level 4	biom:GeographicLocationText		Cardinality	0..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

13.999

Latent Friction Ridge Image

Mnemonic	DATA			Conditionality	D		
				Status	Active		
Description	This mandatory field contains the fingerprint image.			See Section 7.2 of ANSI/NIST ITL 1-2013 for details.			
Field Min	1			Occur Min	0		
Field Max	*			Occur Max	1		
Char Types	B			Special Chars	None		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-13)						
XML Level 1	nc:BinaryBase64Object				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-14: Variable-Resolution Fingerprint Image

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14.001

Record Header

Mnemonic	LEN			Conditionality	M		
				Status	Active		
Description	The record header appears as the first field (xx.001) in each Record Type. It contains information particular to the encoding format chosen, in order to enable proper reading of the record. In Traditional encoding, this field contains the record length in bytes (including all information separators). In NIEM-conformant XML encoding, this field contains the RecordCategoryCode, which is the numeric representation of the Record Type.						
Field Min	T = 4; X = 1			Occur Min	1		
Field Max	T = 8; X = 2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	nist-itl:RecordCategoryCode				Cardinality	1...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.002

Information Designation Character

Mnemonic	IDC	Conditionality	M				
		Status	Active				
Description	Each of the records present in a transaction, with the exception of the Type-1 record, shall include a field (xx.002) containing the information designation character / IDC. The value of the IDC shall be a sequentially assigned positive integer starting from zero and incremented by one up to a maximum of 99. IDC references are stated in Type-1 Field 1.003 Transaction content (CNT) and shall be used to relate information items in the CNT field of the Type-1 record to the other records in the transaction. Two or more records may share a single IDC solely to identify and link together records that pertain to different representations of the same biometric trait.						
Field Min	1	Occur Min	1				
Field Max	2	Occur Max	1				
Char Types	N	Special Chars	None				
Format	n/a	Constraints	0 <= IDC <= 99; integer				
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	nist-itl:ImageReferenceIdentification/nc:IdentificationID		Cardinality	1...1			
XML Level 2			Cardinality				
XML Level 3			Cardinality				
XML Level 4			Cardinality				
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-14: Variable-Resolution Fingerprint Image

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14.003

Impression Type

Mnemonic	IMP			Conditionality	M		
				Status	Active		
Description	This mandatory field shall indicate the manner by which the friction ridge print was obtained.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= IMP <= 3, IMP = 8, 20 <= IMP <= 29, 40 <= IMP <= 41; integer		
Code List	FRICTION RIDGE IMPRESSION CODES						
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom:FingerprintImageImpressionCaptureCategoryCode				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.004

Source Agency

Mnemonic	SRC			Conditionality	M		
				Status	Active		
Description	This is the identifier of the agency that actually created the record and supplied the information contained in it.						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail				Cardinality	1...1	
XML Level 2	biom:CaptureOrganization				Cardinality	1..1	
XML Level 3	nc:OrganizationIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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14.005

Fingerprint Capture Date

Mnemonic	FCD	Conditionality	M
		Status	Active
Description	This mandatory field shall contain the local date that the fingerprint data contained in the record was captured.		
Field Min	Dependent upon encoding	Occur Min	1
Field Max	Dependent upon encoding	Occur Max	1
Char Types	N	Special Chars	None
Format	T = YYYYMMDD; X = <CaptureDate>	Constraints	Dependent upon encoding.
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureDate/nc:Date	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.006

Horizontal Line Length

Mnemonic	HLL	Conditionality	D
		Status	Active
Description	HLL defines the number of pixels contained on a single horizontal line of the image. The maximum horizontal size is limited to 65,535 pixels in Record Types-4 and 8, and to 99,999 for other record types. The minimum value is 10 pixels. The total image size (HLL times VLL) must be able to be accommodated in Field xx.001 for Traditional encoding.		
Field Min	2	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	10 <= HLL <= 99999; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1..1
XML Level 2	biom_2:ImageHorizontalLineLengthPixelQuantity	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-14: Variable-Resolution Fingerprint Image

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14.007

Vertical Line Length

Mnemonic	VLL	Conditionality	D
		Status	Active
Description	VLL defines the number of pixels contained in a single vertical line in the image. The maximum vertical size is limited to 65,535 pixels in Record Types-4 and 8, and to 99,999 for other record types. The minimum value is 10 pixels. The total image size (HLL times VLL) must be able to be accommodated in Field xx.001 for Traditional encoding.		
Field Min	2	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	10 <= VLL <= 99999; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1..1
XML Level 2	biom_2:ImageVerticalLineLengthPixelQuantity	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.008

Scale Units

Mnemonic	SLC	Conditionality	D
		Status	Active
Description	The image sampling frequency (pixel density). A value of "1" shall indicate pixels per inch. A value of "2" shall indicate pixels per centimeter. A value of "0" in this field indicates that no scale is provided, and the quotient of THPS/TVPS shall provide the pixel aspect ratio.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= SLC <= 2, See Look Up Codes
Code List	SCALE UNIT CODES		
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1..1
XML Level 2	biom_2:ImageScaleUnitsCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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14.009

Transmitted Horizontal Pixel Scale

Mnemonic	THPS			Conditionality	D		
				Status	Active		
Description	This is the integer pixel density used in the horizontal direction of the image if SLC has a value of “1” or “2”. If SLC has a value of “0”, this information item shall contain the horizontal component of the pixel aspect ratio, up to 5 integer digits. For example, if the SLC value = 1, then the value of THPS could be ‘1000’ for a 1000 ppi sensor.						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:ImageHorizontalPixelDensityValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.01

Transmitted Vertical Pixel Scale

Mnemonic	TVPS			Conditionality	D		
				Status	Active		
Description	This is the integer pixel density used in the vertical direction of the image if SLC has a value of “1” or “2”. If SLC has a value of “0”, this information item shall contain the vertical component of the pixel aspect ratio, up to 5 integer digits. If SLC is 1 or 2, then TVPS shall equal THPS.						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:ImageVerticalPixelDensityValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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14.011

Compression Algorithm

Mnemonic	CGA			Conditionality	D		
				Status	Active		
Description	This field is mandatory if an image is present in Field 14.999: Fingerprint image / DATA. Otherwise it is absent. It shall specify the algorithm used to compress the transmitted grayscale images.						
Field Min	3			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	n/a			Constraints	see Look Up Codes		
Code List	COMPRESSION CODES						
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:ImageCompressionAlgorithmText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.012

Bits Per Pixel

Mnemonic	BPX			Conditionality	D		
				Status	Active		
Description	This ASCII field shall contain the number of bits used to represent a pixel. This field shall contain an entry of “8” for normal grayscale values of “0” to “255” or each RGB color component. Any entry in this field greater than “8” shall represent a grayscale or color pixel component with increased precision.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	8 <= BPX <= 99		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom_2:ImageBitsPerPixelQuantity				Cardinality	0..1	
XML Level 2	biom_2:ImageCaptureDetail				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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14.013

Friction Ridge Generalized Position

Mnemonic	FGP			Conditionality	M		
				Status	Active		
Description	This field is used in Record types dealing with friction ridges. It specifies which friction ridge biometric sample was collected.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= FGP <= 19, or FGP = 33, or FGP = 36 or 40 <= FGP <= 54; integer; see Look Up Codes		
Code List	FRICTION RIDGE POSITION CODES						
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:FingerPositionCode				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.014

Print Position Descriptors

Mnemonic	PPD			Conditionality	D		
				Status	Active		
Description	This ASCII field shall be present if and only if the finger position code "19" appears in [Type-14 Finger Position field]. This field shall consist of two information items. The first is the probable decimal finger position code (0-10). The second information item is the code to indicate the portion of the EJI or tip image that is stored as a single image in the database. There may be up to 17 such images for a single finger. Images of full-length fingers use codes FV1 through FV4.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom_2:FingerprintImageMajorCasePrint				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.014_1Print Position Descriptors*Decimal Finger Position Code*

Mnemonic	DFP			Conditionality	M ↑		
				Status	Active		
Description	The first information item of 14.014 Print Position Descriptors with value of 1 to 10, inclusive or 16 or 17.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= DFP <= 10 or DFP = 16 or 17; see Look Up Codes		
Code List	FRICTION RIDGE POSITION CODES						
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom_2:FingerprintImageMajorCasePrint				Cardinality	0..1	
XML Level 3	biom_2:FingerPositionCode				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.014_2Print Position Descriptors*Finger Image Code*

Mnemonic	FIC			Conditionality	M↑		
				Status	Active		
Description	The second information item of the Search Position Descriptors (SPD) field to indicate the portion of the database to search. Full-length finger joint images use codes FV1 through FV4. Figure 2 is an illustration of the Entire Joint Image for a middle finger with each of the full finger views and constituent parts identified. Multiple portions of the EJI may be listed in a separate subfield.						
Field Min	3			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	AN			Special Chars	D		
Format	n/a			Constraints	EJI, TIP, FV1, FV2, FV3, FV4, PRX, DST or MED		
Code List	PRINT POSITION DESCRIPTORS						
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom_2:FingerprintImageMajorCasePrint				Cardinality	0..1	
XML Level 3	biom_2:MajorCasePrintCode				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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14.015

Print Position Coordinates

Mnemonic	PPC			Conditionality	D		
				Status	Active		
Description	This field describes the type or portion of the latent image contained in this record and its location within an entire joint image. If finger position code “19” appears in Finger Position field, this setmay optionally contain offsets to the locations for the bounding box of the EJI, each of the full finger views, or segments within the EJI. When used, this field shall consist of six (6) mandatory information items describing the type or portion of the image contained in this record and its location within an EJI. This information will describe either the location of the entire joint image, one full finger view, or segment. Individual full finger or segment definitions may be repeated as repeating sets of information items.						
Field Min	n/a			Occur Min	0		
Field Max	b			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom_2:FingerprintImageMajorCasePrint				Cardinality	0..1	
XML Level 3	biom_2:MajorCasePrintSegmentOffset				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.015_0

Print Position Coordinates

Mnemonic	PPC_0		Conditionality	M↑	
			Status	New Active	
Description	This field describes the type or portion of the latent image contained in this record and its location within an entire joint image. If finger position code “19” appears in Finger Position field, this setmay optionally contain offsets to the locations for the bounding box of the EJI, each of the full finger views, or segments within the EJI. When used, this field shall consist of six (6) mandatory information items describing the type or portion of the image contained in this record and its location within an EJI. This information will describe either the location of the entire joint image, one full finger view, or segment. Individual full finger or segment definitions may be repeated as repeating sets of information items.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	12	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013				
XML Level 1	biom:FingerImpressionImage			Cardinality	1...1
XML Level 2	biom_2:FingerprintImageMajorCasePrint			Cardinality	0..1
XML Level 3	biom_2:MajorCasePrintSegmentOffset			Cardinality	0..12
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

14.015_1Print Position Coordinates*Full Finger View*

Mnemonic	FVC	Conditionality	M↑
		Status	Active
Description	This information item is the number of the full finger view with values of "FV1" through "FV4". Values of "FV1" to "FV4" specify the bounding coordinates for each full finger view. For the case of a fingertip, this information item shall be "TIP". FVC will contain the code "NA" if only a proximal, distal or medial segment is available.		
Field Min	2	Occur Min	1
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	FVC = NA, FV1, FV2, FV3, FV4 or TIP; see Look Up Codes
Code List	PRINT POSITION DESCRIPTORS		
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1...1
XML Level 2	biom_2:FingerprintImageMajorCasePrint	Cardinality	0..1
XML Level 3	biom_2:MajorCasePrintSegmentOffset	Cardinality	0..12
XML Level 4	biom_2:SegmentFingerViewCode	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.015_2Print Position Coordinates*Location of Segment*

Mnemonic	LOS	Conditionality	M↑
		Status	Active
Description	This information item is used to identify the location of a segment within a full finger view. It will contain the not applicable code "NA" if the image portion refers to a full finger view or to the entire joint image locations. It shall contain "PRX", "DST", "MED" for a proximal, distal, or medial segment.		
Field Min	2	Occur Min	1
Field Max	3	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	LOS = NA, PRX, DST or MED; see Look Up Codes
Code List	PRINT POSITION DESCRIPTORS		
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1...1
XML Level 2	biom_2:FingerprintImageMajorCasePrint	Cardinality	0..1
XML Level 3	biom_2:MajorCasePrintSegmentOffset	Cardinality	0..12
XML Level 4	biom_2:SegmentLocationCode	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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14.015_3

Print Position Coordinates

Left Horizontal Coordinate

Mnemonic	LHC	Conditionality	M↑
		Status	Active
Description	It is the horizontal offset in pixels to the left edge of the bounding box relative to the origin positioned in the upper left corner of the image.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 ≤ LHC < HLL; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1...1
XML Level 2	biom_2:FingerprintImageMajorCasePrint	Cardinality	0..1
XML Level 3	biom_2:MajorCasePrintSegmentOffset	Cardinality	0..12
XML Level 4	biom_2:SegmentLeftHorizontalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.015_4

Print Position Coordinates

Right Horizontal Coordinate

Mnemonic	RHC	Conditionality	M↑
		Status	Active
Description	It is the horizontal offset in pixels to the right edge of the bounding box relative to the origin positioned in the upper left corner of the image.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	LHC < RHC < HLL; non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1...1
XML Level 2	biom_2:FingerprintImageMajorCasePrint	Cardinality	0..1
XML Level 3	biom_2:MajorCasePrintSegmentOffset	Cardinality	0..12
XML Level 4	biom_2:SegmentRightHorizontalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.015_5

Print Position Coordinates

Top Vertical Coordinate

Mnemonic	TVC			Conditionality	M↑		
				Status	Active		
Description	The vertical offset (pixel counts down) to the top of the bounding box.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= TVC < VLL; non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom_2:FingerprintImageMajorCasePrint				Cardinality	0..1	
XML Level 3	biom_2:MajorCasePrintSegmentOffset				Cardinality	0..12	
XML Level 4	biom_2:SegmentTopVerticalCoordinateValue				Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.015_6

Print Position Coordinates

Bottom Vertical Coordinate

Mnemonic	BVC		Conditionality	M↑	
			Status	Active	
Description	It is the vertical offset from the upper left corner of the image down to the bottom of the bounding box. It is counted in pixels.				
Field Min	1		Occur Min	1	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	TVC < BVC < VLL; non-negative integer	
Code List					
Source	ANSI/NIST ITL 1-2013				
XML Level 1	biom:FingerImpressionImage			Cardinality	1...1
XML Level 2	biom_2:FingerprintImageMajorCasePrint			Cardinality	0..1
XML Level 3	biom_2:MajorCasePrintSegmentOffset			Cardinality	0..12
XML Level 4	biom_2:SegmentBottomVerticalCoordinateValue			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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14.016

Scanned Horizontal Pixel Scale

Mnemonic	SHPS				Conditionality	0	
					Status	Active	
Description	This ASCII field shall specify the horizontal pixel density used for scanning providing the SLC field contains a "1" or a "2". Otherwise, it indicates the horizontal component of the pixel aspect ratio.						
Field Min	1				Occur Min	0	
Field Max	5				Occur Max	1	
Char Types	N				Special Chars	None	
Format	n/a				Constraints	positive integer	
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail					Cardinality	1...1
XML Level 2	biom_2:CaptureHorizontalPixelDensityValue					Cardinality	0..1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.017

Scanned Vertical Pixel Scale

Mnemonic	SVPS			Conditionality	0		
				Status	Active		
Description	This ASCII field shall specify the vertical pixel density used for scanning providing the SLC field contains a "1" or a "2". Otherwise, it indicates the vertical component of the pixel aspect ratio.						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail				Cardinality	1...1	
XML Level 2	biom_2:CaptureVerticalPixelDensityValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.018Amputated or Bandaged

Mnemonic	AMP			Conditionality	0		
				Status	Active		
Description	This optional field shall specify if one or more fingers are amputated or bandaged. This field shall consist of one subfield for each amputated or missing finger. Multiple amputated or unprintable finger positions may each be entered as a separate repeating subfield. This field is to be used anytime there are fewer than expected printable fingers in a submission (e.g., less than four in a left or right slap or less than two in a two-thumb slap). A partially scarred finger should be printed. XX shall be used only when a partial print exists due to amputation; therefore it contains some friction ridge detail. UP shall be used with the complete block where an image was to be transmitted, but there is no image due to amputation or total lack of friction ridge detail (such as with a bandage). An image with a scar should not be marked XX or UP.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom_2:FingerprintImageFingerMissing				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.018_0Amputated or Bandaged

Mnemonic	AMP_0		Conditionality	M↑	
			Status	New Active	
Description	This optional field shall specify if one or more fingers are amputated or bandaged. This field shall consist of one subfield for each amputated or missing finger. Multiple amputated or unprintable finger positions may each be entered as a separate repeating subfield. This field is to be used anytime there are fewer than expected printable fingers in a submission (e.g., less than four in a left or right slap or less than two in a two-thumb slap). A partially scarred finger should be printed. XX shall be used only when a partial print exists due to amputation; therefore it contains some friction ridge detail. UP shall be used with the complete block where an image was to be transmitted, but there is no image due to amputation or total lack of friction ridge detail (such as with a bandage). An image with a scar should not be marked XX or UP.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	5	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013				
XML Level 1	biom:FingerImpressionImage			Cardinality	1...1
XML Level 2	biom_2:FingerprintImageFingerMissing			Cardinality	0..5
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

14.018_1Amputated or Bandaged*Friction Ridge Amputation or Bandage Position*

Mnemonic	FRAP			Conditionality	M↑		
				Status	Active		
Description	The first information item of the amputated and bandaged field indicating the friction ridge position.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= FRAP <= 10 or FRAP = 16 or 17; see Look Up Codes		
Code List	FRICTION RIDGE POSITION CODES						
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:FingerprintImageFingerMissing				Cardinality	0..5	
XML Level 3	biom_2:FingerPositionCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

14.018_2Amputated or Bandaged*Amputated or Bandaged Code*

Mnemonic	ABC			Conditionality	M↑		
				Status	Active		
Description	This information item provides the code that describes the reason the finger's image is missing.						
Field Min	2			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	ABC = XX or UP; See Look Up Codes		
Code List	AMPUTATED OR BANDAGED CODE						
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:FingerprintImageFingerMissing				Cardinality	0..5	
XML Level 3	biom_2:FingerMissingCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.02

Comment

Mnemonic	COM	Conditionality	0
		Status	Active
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.		
Field Min	1	Occur Min	0
Field Max	126	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1...1
XML Level 2	biom_2:ImageCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.021

Finger Segment Position(s)

Mnemonic	SEG	Conditionality	D
		Status	Active
Description	This ASCII field shall contain offsets to the locations of image segments containing the individual fingers within the flat images of the four simultaneous fingers from each hand or the two simultaneous thumbs. The offsets are relative to the origin positioned in the upper left corner of the image. The horizontal offsets (X) are the pixel counts to the right, and the vertical offsets (Y) are the pixel counts down. A finger segment is defined by the FINGER NUMBER The five information items within a finger segment definition are separated by the "US" separator. Individual finger segment definitions are separated. If more than one algorithm is used to segment the image, successive sets finger segmentation positions		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1...1
XML Level 2	biom_2:FingerprintImageSegmentPositionSquare	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.021_0

Finger Segment Position(s)

Mnemonic	SEG_0			Conditionality	M↑		
				Status	New Active		
Description	This ASCII field shall contain offsets to the locations of image segments containing the individual fingers within the flat images of the four simultaneous fingers from each hand or the two simultaneous thumbs. The offsets are relative to the origin positioned in the upper left corner of the image. The horizontal offsets (X) are the pixel counts to the right, and the vertical offsets (Y) are the pixel counts down. A finger segment is defined by the FINGER NUMBER The five information items within a finger segment definition are separated by the “US” separator. Individual finger segment definitions are separated. If more than one algorithm is used to segment the image, successive sets finger segmentation positions						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	5		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom_2:FingerprintImageSegmentPositionSquare				Cardinality	0..5	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

14.021_1

Finger Segment Position(s)

Friction Ridge Segment Position

Mnemonic	FRSP		Conditionality	M↑	
			Status	Active	
Description	The first information item of the segment position field indicating the friction ridge position.				
Field Min	1		Occur Min	1	
Field Max	2		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	see Look Up Codes	
Code List	FRICTION RIDGE POSITION CODES				
Source	ANSI/NIST ITL 1-2013				
XML Level 1	biom:FingerImpressionImage			Cardinality	1...1
XML Level 2	biom_2:FingerprintImageSegmentPositionSquare			Cardinality	0..5
XML Level 3	biom_2:FingerPositionCode			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

14.021_2Finger Segment Position(s)*Left Horizontal Coordinate*

Mnemonic	LHC	Conditionality	M↑
		Status	Active
Description	It is the horizontal offset in pixels to the left edge of the bounding box relative to the origin positioned in the upper left corner of the image.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LHC <= HLL; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1...1
XML Level 2	biom_2:FingerprintImageSegmentPositionSquare	Cardinality	0..5
XML Level 3	biom_2:SegmentLeftHorizontalCoordinateValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.021_3Finger Segment Position(s)*Right Horizontal Coordinate*

Mnemonic	RHC	Conditionality	M↑
		Status	Active
Description	It is the horizontal offset in pixels to the right edge of the bounding box relative to the origin positioned in the upper left corner of the image.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	LHC < RHC < HLL; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1...1
XML Level 2	biom_2:FingerprintImageSegmentPositionSquare	Cardinality	0..5
XML Level 3	biom_2:SegmentRightHorizontalCoordinateValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.021_4Finger Segment Position(s)*Top Vertical Coordinate*

Mnemonic	TVC			Conditionality	M↑		
				Status	Active		
Description	The vertical offset (pixel counts down) to the top of the bounding box.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= TVC < VLL; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:FingerprintImageSegmentPositionSquare				Cardinality	0..5	
XML Level 3	biom_2:SegmentTopVerticalCoordinateValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.021_5Finger Segment Position(s)*Bottom Vertical Coordinate*

Mnemonic	BVC			Conditionality	M↑		
				Status	Active		
Description	It is the vertical offset from the upper left corner of the image down to the bottom of the bounding box. It is counted in pixels.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	TVC < BVC < VLL; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:FingerprintImageSegmentPositionSquare				Cardinality	0..5	
XML Level 3	biom_2:SegmentBottomVerticalCoordinateValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-14: Variable-Resolution Fingerprint Image

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14.022

NIST Quality Metric

Mnemonic	NQM			Conditionality	0
				Status	Active
Description	This ASCII field shall contain the NIST Fingerprint Image Quality (NFIQ) scores for the individual finger(s) derived from the slap impressions or individual rolled fingerprints. It consists of two information items. The first item is the finger number between one and ten. The second item is the quality score which is a quantitative expression of the predicted AFIS matcher accuracy performance of the fingerprint image. The scores range from "1" for the best quality im image. A "254" indicates that no score was ever computed while an entry of "255" shall indicate a failed attempt to calculate the image quality metric. These two information items are separated. Individual finger quality definitions are separated.				
Field Min	n/a			Occur Min	0
Field Max	n/a			Occur Max	1
Char Types	n/a			Special Chars	n/a
Format	n/a			Constraints	n/a
Code List					
Source	ANSI/NIST ITL 1-2013				
XML Level 1	biom:FingerImpressionImage			Cardinality	1...1
XML Level 2	biom_2:FingerprintImageNISTQuality			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

14.022_0

NIST Quality Metric

Mnemonic	NQM_0		Conditionality	M↑	
			Status	New Active	
Description	This ASCII field shall contain the NIST Fingerprint Image Quality (NFIQ) scores for the individual finger(s) derived from the slap impressions or individual rolled fingerprints. It consists of two information items. The first item is the finger number between one and ten. The second item is the quality score which is a quantitative expression of the predicted AFIS matcher accuracy performance of the fingerprint image. The scores range from "1" for the best quality im image. A "254" indicates that no score was ever computed while an entry of "255" shall indicate a failed attempt to calculate the image quality metric. These two information items are separated. Individual finger quality definitions are separated.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	5	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013				
XML Level 1	biom:FingerImpressionImage			Cardinality	1...1
XML Level 2	biom_2:FingerprintImageNISTQuality			Cardinality	0..5
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-14: Variable-Resolution Fingerprint Image

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14.022_1

NIST Quality Metric

Friction Ridge NIST Quality Position

Mnemonic	FRNP			Conditionality	M ↑		
				Status	Active		
Description	The first information item of a NIST quality metric field indicating the friction ridge position.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= FRNP <= 10 or FGP = 16 or 17; see Look Up Codes		
Code List	FRICTION RIDGE POSITION CODES						
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom_2:FingerprintImageNISTQuality				Cardinality	0..5	
XML Level 3	biom_2:FingerPositionCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.022_2

NIST Quality Metric

NIST Image Quality Score

Mnemonic	IQS			Conditionality	M↑		
				Status	Active		
Description	This information item is the quality score which is a quantitative expression of the predicted AFIS matcher accuracy performance of the fingerprint image. The scores range from "1" for the best quality image, to "5" for the worst quality image. A "254" indicates that no score was ever computed while an entry of "255" shall indicate a failed attempt to calculate the image quality metric.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= IQS <= 5 or IQS = 254 or 255; integer		
Code List	NIST IMAGE QUALITY SCORE CODES						
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom_2:FingerprintImageNISTQuality				Cardinality	0..5	
XML Level 3	biom_2:NISTQualityMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.023Segmentation Quality Metric

Mnemonic	SQM	Conditionality	0
		Status	Active
Description	This ASCII field provides a measure of estimated correctness regarding the accuracy of the location of the segmented finger within the right or left four finger or two thumbs slap image. For each segmented finger, this field shall contain four information items separated. The first information item is the finger number between one and ten. The other three items identify a quality score and the algorithm used to create the quality score. T recipient of the quality score to differentiate between quality scores generated by different algorithms and adjust for any differences in processing or analysis as necessary.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1...1
XML Level 2	biom_2:FingerprintImageSegmentationQuality	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.023_0Segmentation Quality Metric

Mnemonic	SQM_0	Conditionality	M↑
		Status	New Active
Description	This ASCII field provides a measure of estimated correctness regarding the accuracy of the location of the segmented finger within the right or left four finger or two thumbs slap image. For each segmented finger, this field shall contain four information items separated. The first information item is the finger number between one and ten. The other three items identify a quality score and the algorithm used to create the quality score. T recipient of the quality score to differentiate between quality scores generated by different algorithms and adjust for any differences in processing or analysis as necessary.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	5
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1...1
XML Level 2	biom_2:FingerprintImageSegmentationQuality	Cardinality	0..5
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.023_1Segmentation Quality Metric*Friction Ridge Segment Quality Position*

Mnemonic	FRQP			Conditionality	M ↑		
				Status	Active		
Description	The first information item of a segmentation quality metric field indicating the friction ridge position.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= FRQP <= 10 or FGP = 16 or 17; see Look Up Codes		
Code List	FRICTION RIDGE POSITION CODES						
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom_2:FingerprintImageSegmentationQuality				Cardinality	0..5	
XML Level 3	biom_2:FingerPositionCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.023_2Segmentation Quality Metric*Quality Value*

Mnemonic	QVU			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain the integer image quality score between 0 and 100 (inclusive) assigned to the image data by a quality algorithm. Higher values indicate better quality. An entry of “255” shall indicate a failed attempt to calculate a quality score. An entry of “254” shall indicate that no attempt to calculate a quality score was made.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= QVU <= 100 or QVU = 254 or 255; integer		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom_2:FingerprintImageSegmentationQuality				Cardinality	0..5	
XML Level 3	biom_2:QualityValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.023_3Segmentation Quality Metric*Algorithm Vendor Identification*

Mnemonic	QAV			Conditionality	M↑		
				Status	Active		
Description	This information item shall specify the ID of the vendor of the quality algorithm used to calculate the quality score. This 4-digit hex value is assigned by IBIA and expressed as four ASCII characters. The IBIA shall maintain the Vendor Registry of CBEFF Biometric Organizations that will map the value in this field to a registered organization.						
Field Min	4			Occur Min	1		
Field Max	4			Occur Max	1		
Char Types	H			Special Chars	None		
Format	n/a			Constraints	0000 <= QAV <= FFFF		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:FingerprintImageSegmentationQuality				Cardinality	0..5	
XML Level 3	biom_2:QualityAlgorithmVendorIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.023_4Segmentation Quality Metric*Algorithm Product Identification*

Mnemonic	QAP			Conditionality	M↑		
				Status	Active		
Description	This information item shall specify a numeric product code assigned by the vendor of the quality algorithm, which may be registered with the IBIA, but it is not required to be registered. It indicates which of the vendor's algorithms was used in the calculation of the quality score. This field contains the ASCII representation of the integer product code and should be within the range 1 to 65535.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= QAP <= 65535; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1	
XML Level 2	biom_2:FingerprintImageSegmentationQuality				Cardinality	0..5	
XML Level 3	biom_2:QualityAlgorithmProductIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.024

Fingerprint Quality Metric

Mnemonic	FQM	Conditionality	0
		Status	Active
Description	This ASCII field is used to specify one or more different metrics of fingerprint image quality score data for the image stored in this record. The meaning attributed to this metric must be defined and interpreted by the producer of the scoring algorithm or by the person or system used to assign the metric to the fingerprint image. The metric may be a predictor of AFIS matcher accuracy performance indicate a value associated with the quality of the fingerprint image for a particular function. This field may contain one or more subfields, each consisting of four information items separated. The first information item is the finger number. The other algorithm used to create the quality score. This information is useful to enable the recipient of the quality score to differentiate between quality scores generated by different algorithms and adjust for any differences in processing or analysis as needed.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1...1
XML Level 2	biom_2:FingerprintImageQuality	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.024_0

Fingerprint Quality Metric

Mnemonic	FQM_0	Conditionality	M↑
		Status	Active
Description	This ASCII field is used to specify one or more different metrics of fingerprint image quality score data for the image stored in this record. The meaning attributed to this metric must be defined and interpreted by the producer of the scoring algorithm or by the person or system used to assign the metric to the fingerprint image. The metric may be a predictor of AFIS matcher accuracy performance indicate a value associated with the quality of the fingerprint image for a particular function. This field may contain one or more subfields, each consisting of four information items separated. The first information item is the finger number. The other algorithm used to create the quality score. This information is useful to enable the recipient of the quality score to differentiate between quality scores generated by different algorithms and adjust for any differences in processing or analysis as needed.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	5
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1...1
XML Level 2	biom_2:FingerprintImageQuality	Cardinality	0..5
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

14.024_1Fingerprint Quality Metric*Friction Ridge Metric Position*

Mnemonic	FRMP			Conditionality	M↑		
				Status	Active		
Description	The first information item of a quality metric field indicating the friction ridge position.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= FRMP <= 10 or FGP = 16 or 17; see Look Up Codes		
Code List	FRICTION RIDGE POSITION CODES						
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom_2:FingerprintImageQuality				Cardinality	0..5	
XML Level 3	biom_2:FingerPositionCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.024_2Fingerprint Quality Metric*Quality Value*

Mnemonic	QVU			Conditionality	M↑	
				Status	Active	
Description	This information item shall contain the integer image quality score between 0 and 100 (inclusive) assigned to the image data by a quality algorithm. Higher values indicate better quality. An entry of “255” shall indicate a failed attempt to calculate a quality score. An entry of “254” shall indicate that no attempt to calculate a quality score was made.					
Field Min	1			Occur Min	1	
Field Max	3			Occur Max	1	
Char Types	N			Special Chars	None	
Format	n/a			Constraints	0 <= QUV <= 100 or QVU = 254 or 255; integer	
Code List						
Source	ANSI/NIST ITL 1-2013					
XML Level 1	biom:FingerImpressionImage				Cardinality	1..1
XML Level 2	biom_2:FingerprintImageQuality				Cardinality	0..5
XML Level 3	biom_2:QualityValue				Cardinality	1..1
XML Level 4					Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0 Yes

14.024_3Fingerprint Quality Metric*Algorithm Vendor Identification*

Mnemonic	QAV		Conditionality	M↑	
			Status	Active	
Description	This information item shall specify the ID of the vendor of the quality algorithm used to calculate the quality score. This 4-digit hex value is assigned by IBIA and expressed as four ASCII characters. The IBIA shall maintain the Vendor Registry of CBEFF Biometric Organizations that will map the value in this field to a registered organization.				
Field Min	4		Occur Min	1	
Field Max	4		Occur Max	1	
Char Types	H		Special Chars	None	
Format	n/a		Constraints	0000 <= QAV <= FFFF	
Code List					
Source	ANSI/NIST ITL 1-2013				
XML Level 1	biom:FingerImpressionImage			Cardinality	1...1
XML Level 2	biom_2:FingerprintImageQuality			Cardinality	0..5
XML Level 3	biom_2:QualityAlgorithmVendorIdentification/nc:IdentificationID			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

14.024_4Fingerprint Quality Metric*Algorithm Product Identification*

Mnemonic	QAP		Conditionality	M↑	
			Status	Active	
Description	This information item shall specify a numeric product code assigned by the vendor of the quality algorithm, which may be registered with the IBIA, but it is not required to be registered. It indicates which of the vendor's algorithms was used in the calculation of the quality score. This field contains the ASCII representation of the integer product code and should be within the range 1 to 65535.				
Field Min	1		Occur Min	1	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	1 <= QAP <= 65535; positive integer	
Code List					
Source	ANSI/NIST ITL 1-2013				
XML Level 1	biom:FingerImpressionImage			Cardinality	1..1
XML Level 2	biom_2:FingerprintImageQuality			Cardinality	0..5
XML Level 3	biom_2:QualityAlgorithmProductIdentification/nc:IdentificationID			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

14.025

Alternate Finger Segment Position

Mnemonic	ASEG			Conditionality	0		
				Status	Active		
Description	This ASCII field is an alternate approach to describing the locations for each of the image segments of the individual fingers within a flat image containing the capture of four simultaneous fingers or two simultaneous thumbs. This field uses an n-vertex polygon to encompass each finger image segment, where “n” is between 3 and 99. The order of the vertices must be in their consecutive order around the perimeter of the polygon, either clockwise or counterclockwise. No two verti location. The polygon side defined by the last subfield and the first subfield shall complete the polygon. The polygon must be a simple, plane figure with no sides crossing and no interior holes. This field shall consist of one to four subfields. Each sub between 1 and 10, the total number of vertices of the polygon encompassing the finger, and the set of consecutive vertices. Each vertex shall be represented as horizontal and vertical pixel offsets relative to the origin positioned in the upper left corne are the pixel counts to the right, and the vertical offsets (Y) are the pixel counts down from the origin.A minimum of three points is required to describe a finger location. The finger number, the number of vertices, each X coordinate, and each Y coordin Subfields representing each finger are separated.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom_2:FingerprintImageSegmentPositionPolygon				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.025_0Alternate Finger Segment Position

Mnemonic	ASEG_0			Conditionality	M ↑		
				Status	New Active		
Description	This ASCII field is an alternate approach to describing the locations for each of the image segments of the individual fingers within a flat image containing the capture of four simultaneous fingers or two simultaneous thumbs. This field uses an n-vertex polygon to encompass each finger image segment, where “n” is between 3 and 99. The order of the vertices must be in their consecutive order around the perimeter of the polygon, either clockwise or counterclockwise. No two verti location. The polygon side defined by the last subfield and the first subfield shall complete the polygon. The polygon must be a simple, plane figure with no sides crossing and no interior holes. This field shall consist of one to four subfields. Each sub between 1 and 10, the total number of vertices of the polygon encompassing the finger, and the set of consecutive vertices. Each vertex shall be represented as horizontal and vertical pixel offsets relative to the origin positioned in the upper left corne are the pixel counts to the right, and the vertical offsets (Y) are the pixel counts down from the origin.A minimum of three points is required to describe a finger location. The finger number, the number of vertices, each X coordinate, and each Y coordin Subfields representing each finger are separated.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	5		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage				Cardinality	1...1	
XML Level 2	biom_2:FingerprintImageSegmentPositionPolygon				Cardinality	0..5	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

14.025_1Alternate Finger Segment Position*Friction Ridge Alternate Segment Position*

Mnemonic	FRAS		Conditionality	M↑	
			Status	Active	
Description	The first information item of an alternate segment position field indicating the friction ridge position.				
Field Min	1		Occur Min	1	
Field Max	2		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	1 <= FRAS <= 10 or FGP = 16 or 17; see Look Up Codes	
Code List	FRICTION RIDGE POSITION CODES				
Source	ANSI/NIST ITL 1-2013				
XML Level 1	biom:FingerImpressionImage			Cardinality	1...1
XML Level 2	biom_2:FingerprintImageSegmentPositionPolygon			Cardinality	0..5
XML Level 3	biom_2:FingerPositionCode			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

14.025_2Alternate Finger Segment Position*Number of Points*

Mnemonic	NOP		Conditionality	M↑	
			Status	Active	
Description	Specifies the number of vertices.				
Field Min	1		Occur Min	1	
Field Max	2		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	3 <= NOP <= 99; positive integer	
Code List					
Source	ANSI/NIST ITL 1-2013				
XML Level 1	biom:FingerImpressionImage			Cardinality	1..1
XML Level 2	biom_2:FingerprintImageSegmentPositionPolygon			Cardinality	0..5
XML Level 3	biom_2:PositionPolygonVertex			Cardinality	3..99
XML Level 4	biom_2:PositionHorizontalCoordinateValue			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

14.025_3Alternate Finger Segment Position*Horizontal Point Offset*

Mnemonic	HPO		Conditionality	M↑	
			Status	Active	
Description	The pixel counts to the right.				
Field Min	1		Occur Min	1	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	0 <= HPO <= HLL; integer	
Code List					
Source	ANSI/NIST ITL 1-2013				
XML Level 1	biom:FingerImpressionImage			Cardinality	1..1
XML Level 2	biom_2:FingerprintImageSegmentPositionPolygon			Cardinality	0..5
XML Level 3	biom_2:PositionPolygonVertex			Cardinality	3..99
XML Level 4	biom_2:PositionVerticalCoordinateValue			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

14.025_4Alternate Finger Segment PositionVertical Point Offset

Mnemonic	VPO	Conditionality	M↑
		Status	Active
Description	The pixel counts down from the origin.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= VPO <= VLL; integer
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1...1
XML Level 2	biom_2:FingerprintImageSegmentPositionPolygon	Cardinality	0..5
XML Level 3	biom_2:PositionVerticalCoordinateValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.026Simultaneous Capture

Mnemonic	SCF	Conditionality	O
		Status	Active
Description	This optional field allows the user to link together fingerprint images that were captured simultaneously. Note that this is different from the IDC. This is used, for instance, when individual flat print are captured on different platens simultaneously. Such images should not be stitched together for transmission as a single multiple-finger print image, but they should be coded with the same SCF value to indicate that they were captured simultaneously, and that there is little possibility of a mistaken f 1-based numeric index that is incremented for each simultaneously captured set of images, and shall be omitted otherwise.		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= SCF <= 255; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	biom_2:CaptureIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.027

Stitched Image Flag

Mnemonic	SIF	Conditionality	D
		Status	Active
Description	This field signifies that images captured separately were stitched together to form a single image. This field is mandatory if an image has been stitched, and the value shall be set to 'Y'. Otherwise, this field shall not appear in the record.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	SIF = Y
Code List	STITCHED IMAGE CODES		
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1..1
XML Level 2	biom_2:FingerprintImageStitchedIndicator	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.03

Device Monitoring Mode

Mnemonic	DMM	Conditionality	O
		Status	Active
Description	This field provides information describing the human monitoring operation of the image capture device. This field will contain an entry from [possible codes below] to indicate the monitoring mode of the biometric sample capture device.		
Field Min	7	Occur Min	0
Field Max	10	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	CAPTURE DEVICE MONITORING MODE CODES		
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureDeviceMonitoringModeCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.031

Subject Acquisition Profile - Fingerprint

Mnemonic	FAP	Conditionality	0
		Status	Active
Description	The profile levels for fingerprint acquisition are optional and are based upon those listed in the Mobile ID Best Practice Recommendation.		
Field Min	2	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	FAP = 10, 20, 30, 40, 50 or 60; integer
Code List	FINGERPRINT ACQUISITION PROFILE CODES		
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1...1
XML Level 2	biom_2:FingerprintImageAcquisitionProfileCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.046

Image Subject Condition

Mnemonic	SUB	Conditionality	0
		Status	Active
Description	This field is optional. There may be different values for SUB in different instances of Type-14 records. For example, some images may have been acquired antemortem, while others were acquired post-mortem. This field describes the condition of the subject		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom_2:SubjectExistentialDetails	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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14.046_1

Image Subject Condition

Subject Status Code

Mnemonic	SSC	Conditionality	M↑
		Status	Active
Description	This information item is mandatory if this field is present. It is subject status code / SSC.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	SSC = X, A, or D
Code List	SUBJECT STATUS CODES		
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom_2:SubjectExistentialDetails	Cardinality	0..1
XML Level 2	biom_2:SubjectExistentialStatusCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

14.046_2

Image Subject Condition

Subject Body Status Code

Mnemonic	SBSC	Conditionality	D
		Status	Active
Description	This information item shall be entered if and only if SSC is D. It is subject body status code / SBSC. Its purpose is to indicate whether the information relates to an entire corpse or a separate body part.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	SBSC = 1 or 2
Code List	SUBJECT BODY STATUS CODES		
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom_2:SubjectExistentialDetails	Cardinality	0..1
XML Level 2	biom_2:SubjectBodyStatusCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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14.046_3

Image Subject Condition

Subject Body Class Code

Mnemonic	SBCC	Conditionality	D
		Status	Active
Description	This information item shall be entered if and only if SSC is D. It is subject body class code/ SBCC.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	SBCC = 1 or 2
Code List	SUBJECT BODY CLASS CODES		
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom_2:SubjectExistentialDetails	Cardinality	0..1
XML Level 2	biom_2:SubjectBodyClassCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

14.047

Capture Organization Name

Mnemonic	CON	Conditionality	O
		Status	Active
Description	This field is optional. Note that this can be different from the agency entered in Field 14.004: Source agency / SRC and Field 14.993: Source agency name / SAN. SRC and SAN describe the agency that created the record. Since the record may have been forwarded the final destination, Field 1.008: Originating agency identifier / ORI is used to indicate the transmitting organization. See Section 7.6 for details about SRC, SAN, and ORI. For example, • The friction ridge prints are taken from a decedent's body in a examiner's office would be CON. • The local police department that would create the actual ANSI/NIST-ITL 1-2011 conformant record. Such an organization's code would be entered in Field 14.004: Source agency / SRC (for example NA54-X) and its name in Field name / SAN (for example New Artichoke Police). In many implementation domains, there are a limited number of transmission organizations that can send data. Therefore, the agency listed in SRC may send the transaction to another location that has access to this intermediary may add information to the transaction, as well. The final transmitting organization code is listed in Field 1.008: Originating agency identifier / ORI. Its name may be entered in Originating agency name / OAN in Field 1.017: Agency names		
Field Min	1	Occur Min	0
Field Max	1000	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	none
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureOrganization	Cardinality	1..1
XML Level 3	nc:OrganizationUnitName	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

14.2

Image Source Code

Mnemonic	ISC	Conditionality	0
		Status	Active
Description	This optional numeric field indicates to which source the included image belongs. This field allows images from multiple biometric sets that use the same Record Type to be distinguishable. Two different values are used for the Palmprint card to distinguish between the index finger image on the front of the card and the index finger that is part of the set of five finger images on the back of the card. Livescan palm capture should use value 2 and is not expected to contain any finger images.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	ISC = 1, 2, 3, or 4
Code List	IMAGE SOURCE CODES		
Source	ANSI/NIST ITL 1-2013		
XML Level 1	nist-itl:UserDefinedFields	Cardinality	0..*
XML Level 2	dod-ebts:ImageSourceCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.902

Annotated Information

Mnemonic	ANN	Conditionality	0
		Status	Active
Description	This optional field is used to store annotation, logging, or processing information associated with one or more processing algorithms or latent workstations (other than the FBI developed ULW).		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom_2:ProcessAnnotation	Cardinality	0...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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14.902_0

Annotated Information

Mnemonic	ANN_0				Conditionality	M↑		
					Status	New Active		
Description	This optional field is used to store annotation, logging, or processing information associated with one or more processing algorithms or latent workstations (other than the FBI developed ULW).							
Field Min	n/a				Occur Min	0		
Field Max	n/a				Occur Max	*		
Char Types	n/a				Special Chars	n/a		
Format	n/a				Constraints	n/a		
Code List								
Source	ANSI/NIST ITL 1-2013							
XML Level 1	biom_2:ProcessAnnotation						Cardinality	0..*
XML Level 2							Cardinality	
XML Level 3							Cardinality	
XML Level 4							Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

14.902_1

Annotated Information

Greenwich Mean Time

Mnemonic	GMT			Conditionality	M↑		
				Status	Active		
Description	This information item is the Greenwich Mean Time (GMT) when the annotation occurred. The data is formatted as YYYYMMDDhhmmssZ, where the Z is indicates the zone description of 0 hours. Time (GMT) units. This time is independent of the actual time zone where the time and date is recorded.						
Field Min	15			Occur Min	1		
Field Max	15			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding			Constraints	Dependent upon encoding		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom_2:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom_2:ProcessUTCDate/nc:DateTime				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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14.902_2

Annotated Information

Processing Algorithm Name / Version

Mnemonic	NAV			Conditionality	M↑		
				Status	Active		
Description	The second information item of the Type-14 Annotated Information field shall contain an unformatted text string of up to 64 characters identifying the name and version of the processing algorithm or workstation.						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom_2:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom_2:ProcessName				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.902_3

Annotated Information

Algorithm Owner

Mnemonic	OWN			Conditionality	M↑		
				Status	Active		
Description	The third information item Type-14 Annotated Information field shall contain an unformatted text string of up to 64 characters with the contact information for the organization that owns the processing algorithm or latent workstation.						
Field Min	1			Occur Min	1		
Field Max	64			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom_2:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom_2:ProcessOwnerText				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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14.902_4

Annotated Information

Process Description

Mnemonic	PRO			Conditionality	M ↑		
				Status	Active		
Description	The fourth and final information item of the Type-14 Annotated Information field shall contain an unformatted text string of up to 255 characters describing a process or procedure applied to the sample in this Type-XX record.						
Field Min	1			Occur Min	1		
Field Max	255			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom_2:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom_2:ProcessDescriptionText				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.903

Device Unique Identifier

Mnemonic	DUI	Conditionality	O				
		Status	Active				
Description	The DUI shall contain a string uniquely identifying the device or source of the data. This field shall be one of: Host PC MAC address, identified by the first character “M”, or Host PC processor ID, identified by the first character “P”. Note: ANSI/NIST ITL 1-2011 has deleted the options for “Serial number or No serial number” from Field 17.017, since it is available in the Make / Model / Serial Number field.						
Field Min	13	Occur Min	0				
Field Max	16	Occur Max	1				
Char Types	ANS	Special Chars	Any				
Format	n/a	Constraints	first character = M or P				
Code List	DEVICE UNIQUE IDENTIFIER CODES						
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail				Cardinality	1..1	
XML Level 2	biom_2:CaptureDeviceIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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14.904

Make/Model/Serial Number

Mnemonic	MMS	Conditionality	O
		Status	Active
Description	The MMS contains the make, model and serial number for the capture device. It shall consist of three information items. Each information item shall be 1 to 50 characters. Any or all information items may indicate that information is unknown with the value "0".		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.904_1

Make/Model/Serial Number

Make

Mnemonic	MAK	Conditionality	M↑
		Status	Active
Description	The name of the manufacturer for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureDeviceMakeText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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14.904_2

Make/Model/Serial Number

Model

Mnemonic	MOD	Conditionality	M↑
		Status	Active
Description	The model number for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	biom_2:CaptureDeviceModelText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.904_3

Make/Model/Serial Number

Serial Number

Mnemonic	SER	Conditionality	M↑
		Status	Active
Description	The serial number for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	biom_2:CaptureDeviceSerialNumberText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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14.993

Source Agency Name

Mnemonic	SAN			Conditionality	O		
				Status	Active		
Description	This is an optional field. It may contain up to 125 Unicode characters. It is the name of the agency referenced in Field 14.004: Source agency / SRC for record types 9-99.						
Field Min	1			Occur Min	1		
Field Max	125			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail				Cardinality	1..1	
XML Level 2	biom:CaptureOrganization				Cardinality	1..1	
XML Level 3	nc:OrganizationName				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.995

Associated Context

Mnemonic	ASC		Conditionality	0	
			Status	Active	
Description	Optional field 14.995 is contained in biometric data sample Record Types 10 and above that may have instances of Record Type-21 linked to it. Record Type-21 stores images and/or recordings that are not the actual source of the biometric data contained in another Record Type, but do show the context of the biometric data. An example would be a photograph of a glass that had latent prints on it. This is because there may be multiple instances of associated context records associated with a single biometric sample.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013				
XML Level 1	biom_2:AssociatedContext			Cardinality	0..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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14.995_0

Associated Context

Mnemonic	ASC_0	Conditionality	M↑
		Status	New Active
Description	Optional field 14.995 is contained in biometric data sample Record Types 10 and above that may have instances of Record Type-21 linked to it. Record Type-21 stores images and/or recordings that are not the actual source of the biometric data contained in another Record Type, but do show the context of the biometric data. An example would be a photograph of a glass that had latent prints on it. This is because there may be multiple instances of associated context records associated with a single biometric sample.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	255
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom_2:AssociatedContext	Cardinality	0..255
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

14.995_1

Associated Context Number

Mnemonic	ACN	Conditionality	M↑
		Status	Active
Description	The first information item for the Associated Context field for a particular Record Type-21. This is mandatory for each Field 14.995, when the field is used. It contains an index to a particular instance of a Type-21 record in the transaction. This same index value appears in the appropriate instance of Record Type-21 as Field 21.021: Associated context number / CAN. The value of the CAN shall be a sequentially assigned a positive integer starting from one and incremented by one, not to exceed		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= ACN <= 255; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom_2:AssociatedContext	Cardinality	0..255
XML Level 2	biom_2:ContextIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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14.995_2

Associated Context Number

Associated Segment Position

Mnemonic	ASP			Conditionality	0↑		
				Status	Active		
Description	The first information item is the associated segment position / ASP. This provides a unique index to a segmentation.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	1 <= ASP <= 99; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom_2:AssociatedContext				Cardinality	0..255	
XML Level 2	biom_2:ImageSegmentIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.996

Hash

Mnemonic	HAS			Conditionality	0		
				Status	Active		
Description	Optional field 14.996, is designed for use in Record types 10 and above with a Field xx.999 storing the biometric data. It is comprised of 64 characters representing hexadecimal values. This field shall contain the hash value of the data in Field 14.999: Thus, each character may be a digit from “0” to “9” or a letter “A” through “F”. See the latest version of the Federal Information Processing Standard 180, Secure Hash Standard for information on computing SHA-256 hashes. At the time of this standard’s publication, FIPS 180-37 had been published. It is also possible to use Field xx.996 to contain the hash for data stored externally, which is referenced in Field 20.994: External file reference / EFR and /or Field 21.994: Ex The ability to store files externally is new to this version of the standard, and is only implemented for the two new record types referred to here. Use of the hash enables the receiver of the data to perform quick searches of large databases to determine database. It is not intended as an information assurance check. That is handled by Record Type-98: Information assurance record.						
Field Min	64			Occur Min	0		
Field Max	64			Occur Max	1		
Char Types	H			Special Chars	None		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom_2:ImageHashValue				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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14.997

Source Representation

Mnemonic	SOR			Conditionality	0		
				Status	Active		
Description	This optional field 14.997 is allowed in biometric data sample Record Types 10 and above that could have the biometric sample derived from a source representation in Record Type-20. The biometric data is stored in Field 14.999.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom_2:SourceRepresentation				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.997_0

Source Representation

Mnemonic	SOR_0			Conditionality	M↑		
				Status	New Active		
Description	This optional field 14.997 is allowed in biometric data sample Record Types 10 and above that could have the biometric sample derived from a source representation in Record Type-20. The biometric data is stored in Field 14.999.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	255		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom_2:SourceRepresentation				Cardinality	0..255	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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14.997_1

Source Representation

Source Representation Number

Mnemonic	SRN	Conditionality	M↑
		Status	Active
Description	This is the first information item and is mandatory for each Field xx.997. It contains an index to a particular instance of a Type-20 record in the transaction. This same index value appears in the appropriate instance of Record Type-20 as Field 20.021: Source representation number / SRN. The value of the SRN shall be a sequentially assigned a positive integer starting from one and incremented by one, not to exce		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= SRN <= 255; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom_2:SourceRepresentation	Cardinality	0..255
XML Level 2	biom_2:SourceIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.997_2

Source Representation

Reference Segment Position

Mnemonic	RSP	Conditionality	O↑
		Status	Active
Description	The first information item is the reference segment position / RSP. This provides a unique index to a segmentation.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= RSP <= 99; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom_2:SourceRepresentation	Cardinality	0..255
XML Level 2	biom_2:ImageSegmentIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.998Geographic Sample Acquisition Location

Mnemonic	GEO			Conditionality	0		
				Status	Active		
Description	This optional field contains the location where the iris sample/original source/context information was acquired – not where it is stored.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail				Cardinality	1...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.998_1Geographic Sample Acquisition Location*Universal Time Entry*

Mnemonic	UTE			Conditionality	0↑		
				Status	Active		
Description	The coordinated universal time (UTC) where the biometric sample was collected. This time is independent of the actual time zone where the time and date is recorded. The date is YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. If sample collection time is unknown, set it to "00000000000000Z."						
Field Min	15			Occur Min	0		
Field Max	15			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding			Constraints	Dependent upon encoding		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail				Cardinality	1...1	
XML Level 2	biom:CaptureLocation				Cardinality	0..1	
XML Level 3	biom:CaptureUTCDateTime/nc:DateTime				Cardinality	0...1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.998_2Geographic Sample Acquisition Location*Latitude Degree Value*

Mnemonic	LTD	Conditionality	D
		Status	Active
Description	The second information item is latitude degree value / LTD. This is a value that specifies the degree of latitude. The value shall be between -90 (inclusive) and +90 (inclusive). The degrees may be expressed as an integer (without a decimal) or a real number including decimals. If decimals are present, then minutes and seconds shall be empty. Examples: Buenos Aires, Argentina: -34 (with minutes LTM = 36) NIST, Gaithersburg, Maryland: 39.137627 (no LTM or LTS)		
Field Min	1	Occur Min	0
Field Max	9	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	=-90 <= LTD <= 90
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LatitudeDegreeValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.998_3Geographic Sample Acquisition Location*Latitude Minute Value*

Mnemonic	LTM	Conditionality	D
		Status	Active
Description	This information item is latitude minute value / LTM. This is a value that specifies a minute of a degree. The value shall be between 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number. If decimals are present then seconds shall be empty. Thus, the allowed special character is a period. The minute value can be empty, even if the degree value is an integer. LTM and LGM are co-conditional, so they shall both be present if either is present		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	0 <= LTM < 60
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LatitudeMinuteValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.998_4Geographic Sample Acquisition Location*Latitude Second Value*

Mnemonic	LTS	Conditionality	D
		Status	Active
Description	The fourth information item is the latitude second value / LTS. This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LTS < 60
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LatitudeSecondValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.998_5Geographic Sample Acquisition Location*Longitude Degree Value*

Mnemonic	LGD	Conditionality	D
		Status	Active
Description	The fifth information item is the longitude degree value / LGD. It is a value that specifies the degree of a longitude. The value shall be between -180 (inclusive) and +180 (inclusive). If LTD is present, then LGD shall be present. The degrees may be expressed as whole numbers (without a decimal) or real numbers including decimals. If decimals are present, then minutes and seconds are empty. Examples: Buenos Aires, Argentina: -58 (with minutes LGM = 22), NIST, Gaithersburg, Maryland: -77.216032 (no LGM or LGS)		
Field Min	1	Occur Min	0
Field Max	10	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	-180 <= LGD <= 180
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeDegreeValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.998_6Geographic Sample Acquisition Location*Longitude Minute Value*

Mnemonic	LGM	Conditionality	D
		Status	Active
Description	The sixth information item is the longitude minute value / LGM. It is a value that specifies a minute of a degree. The value shall be from 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall not appear. The minute value is empty, even if the degree value is an integer. If LTM is present, then L		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	0 <= LGM < 60
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeMinuteValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.998_7Geographic Sample Acquisition Location*Longitude Second Value*

Mnemonic	LGS	Conditionality	D
		Status	Active
Description	The seventh information item is the longitude second value / LGS. This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer. If LTS is present, then LGS shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LGS < 60
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeSecondValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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Geographic Sample Acquisition Location

Elevation

Mnemonic	ELE	Conditionality	O
		Status	Active
Description	The eighth information item is elevation / ELE. It is expressed in meters. It is a numeric value. It is between -422 meters (Dead Sea) and 8848 meters (Mount Everest). Allowed special characters are the negative sign and the period.		
Field Min	3	Occur Min	1
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Minus Sign,Period
Format	n/a	Constraints	-422.000 < ELE < 8848.000; real number
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationGeographicElevation	Cardinality	0..1
XML Level 4	nc:MeasurePoint	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.998_9

Geographic Sample Acquisition Location

Geodetic Datum Code

Mnemonic	GDC	Conditionality	O
		Status	Active
Description	The ninth information item is the geodetic datum code / GDC11. It is an alphanumeric value of 3 to 6 characters in length. This information item is used to indicate which coordinate system was used to represent the values in information items 2 through 7. information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values. If no entry is made in this information item, in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values.		
Field Min	2	Occur Min	0
Field Max	6	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	GEOGRAPHIC COORDINATE DATUM CODES		
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	biom:GeodeticDatumCoordinateSystemCode or biom:GeodeticDatumCoordinateSystemName	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Zone

Mnemonic	GCM	Conditionality	D
		Status	Active
Description	It is an alphanumeric value of 2 to 3 characters. This is a one or two digit UTM zone number followed by the 8 degree latitudinal band designator (which is a single letter).		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	One or two digit UTM zone
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 4	nc:UTMGridZoneID	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

14.998_11

Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Easting

Mnemonic	GCE	Conditionality	D
		Status	Active
Description	The eleventh information item is the geographic coordinate universal transverse Mercator easting / GCE. It is an integer of 1 to 6 digits.		
Field Min	1	Occur Min	0
Field Max	6	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= GCE; integer
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 4	nc:UTMEastingValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Northing

Mnemonic	GCN			Conditionality	D		
				Status	Active		
Description	The twelfth information item is the geographic coordinate universal transverse Mercator northing / GCN. It is an integer of 1 to 8 digits.						
Field Min	1			Occur Min	0		
Field Max	8			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= GCN; integer		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail				Cardinality	1...1	
XML Level 2	biom:CaptureLocation				Cardinality	0..1	
XML Level 3	nc:LocationUTMCoordinate				Cardinality	0..1	
XML Level 4	nc:UTMNorthingValue				Cardinality	0..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.998_13

Geographic Sample Acquisition Location

Geographic Reference Text

Mnemonic	GRT			Conditionality	O		
				Status	Active		
Description	It is a free form text describing a street address or other physical location (such as ‘Corner of Washington and Madison, Geneva, NY’).						
Field Min	1			Occur Min	0		
Field Max	150			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013						
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail				Cardinality	1...1	
XML Level 2	biom:CaptureLocation				Cardinality	0..1	
XML Level 3	biom:GeographicLocationText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

14.998_14Geographic Sample Acquisition Location*Geographic Coordinate Other System Identifier*

Mnemonic	OSI			Conditionality	O
				Status	Active
Description	A fourteenth optional information item geographic coordinate other system identifier / OSI allows for other coordinate systems. This information items specifies the system identifier. It is up to 10 characters in length. I Examples are: • MGRS (Military Grid Reference System), • USNG (United States National Grid), • GARS (Global Area Reference System), • GEOREF (World Geographic Reference), • LANDMARK landmark (e.g. hydant) and position relative to the landmark.				
Field Min	1			Occur Min	1
Field Max	10			Occur Max	1
Char Types	U			Special Chars	Any
Format	n/a			Constraints	None
Code List					
Source	ANSI/NIST ITL 1-2013				
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail			Cardinality	1...1
XML Level 2	biom:CaptureLocation			Cardinality	0..1
XML Level 3	biom:LocationAlternateGeographicSystemValue			Cardinality	0..1
XML Level 4	biom:GeographicLocationSystemName			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

14.998_15Geographic Sample Acquisition Location*Geographic Coordinate Other System Value*

Mnemonic	OCV		Conditionality	D	
			Status	Active	
Description	A fifteenth optional information item, is the geographic coordinate other system value / OCV. It shall only be present if OSI is present in the record. It can be up to 126 characters in length. If OSI is LANDMARK, OCV is free text and may be up to 126 characters. For details on the formatting of OCV for the other coordinate systems shown in OSI as examples, see http://earth-info.nga.mil/GandG/coordsys/grids/referencesys.html .				
Field Min	1		Occur Min	0	
Field Max	126		Occur Max	1	
Char Types	U		Special Chars	Any	
Format	n/a		Constraints	None	
Code List					
Source	ANSI/NIST ITL 1-2013				
XML Level 1	biom:FingerImpressionImage/biom:ImageCaptureDetail			Cardinality	1...1
XML Level 2	biom:CaptureLocation			Cardinality	0..1
XML Level 3	biom:LocationAlternateGeographicSystemValue			Cardinality	0..1
XML Level 4	biom:GeographicLocationText			Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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Fingerprint Image

Mnemonic	DATA	Conditionality	D
		Status	Active
Description	This mandatory field contains the fingerprint image. See Section 7.2 of ANSI/NIST ITL 1-2011 for details.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	B	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	biom:FingerImpressionImage	Cardinality	1..1
XML Level 2	nc:BinaryBase64Object	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.001

Record Header

Mnemonic	LEN	Conditionality	M
		Status	Active
Description	The record header appears as the first field (xx.001) in each Record Type. It contains information particular to the encoding format chosen, in order to enable proper reading of the record. In Traditional encoding, this field contains the record length in bytes (including all information separators). In NIEM-conformant XML encoding, this field contains the RecordCategoryCode, which is the numeric representation of the Record Type.		
Field Min	T = 4; X = 1	Occur Min	1
Field Max	T = 8; X = 2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	nist-itl:RecordCategoryCode	Cardinality	1..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.002

Information Designation Character

Mnemonic	IDC	Conditionality	M
		Status	Active
Description	Each of the records present in a transaction, with the exception of the Type-1 record, shall include a field (xx.002) containing the information designation character (IDC). The value of the IDC shall be a sequentially assigned positive integer starting from zero and incremented by one up to a maximum of 99. IDC references are stated in Type-1 Field 1.003 Transaction content (CNT) and shall be used to relate information items in the CNT field of the Type-1 record to the other records in the transaction. Two or more records may share a single IDC solely to identify and link together records that pertain to different representations of the same biometric trait.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= IDC <= 99; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	nist-itl:ImageReferenceIdentification/nc:IdentificationID		Cardinality 1...1
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
			DoD EBTS 4.0
			Yes

15.003

Impression Type

Mnemonic	IMP		Conditionality	M	
			Status	Active	
Description	This mandatory field shall indicate the manner by which the friction ridge print was obtained.				
Field Min	2		Occur Min	1	
Field Max	2		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	IMP = 10 or 11 or 28 or 29	
Code List	FRICTION RIDGE IMPRESSION CODES				
Source	ANSI/NIST ITL 1-2013 (Type-15)				
XML Level 1	biom:PalmpointImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)			Cardinality	1...1
XML Level 2	dod-ebts:FrictionRidgeImageImpressionCaptureCategoryCode			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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15.004

Source Agency

Mnemonic	SRC		Conditionality	M	
			Status	Active	
Description	This is the identifier of the agency that actually created the record and supplied the information contained in it.				
Field Min	1		Occur Min	1	
Field Max	Unlimited		Occur Max	1	
Char Types	U		Special Chars	Any	
Format	n/a		Constraints	None	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-15)				
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)			Cardinality	1...1
XML Level 2	biom_2:CaptureOrganization			Cardinality	1..1
XML Level 3	nc:OrganizationIdentification/nc:IdentificationID			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

15.005

Palmprint Capture Date

Mnemonic	PCD		Conditionality	M	
			Status	Active	
Description	This ASCII field shall contain the date that the palmprint image contained in the record was captured. The date shall appear as eight digits in the format YYYYMMDD.				
Field Min	Dependent on encoding		Occur Min	1	
Field Max	Dependent on encoding		Occur Max	1	
Char Types	N		Special Chars	None	
Format	YYYYMMDD		Constraints	Dependent upon encoding	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-15)				
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)			Cardinality	1...1
XML Level 2	biom_2:CaptureDate/nc:Date			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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15.006

Horizontal Line Length

Mnemonic	HLL	Conditionality	D
		Status	Active
Description	HLL defines the number of pixels contained on a single horizontal line of the image. The maximum horizontal size is limited to 65,535 pixels in Record Types-4 and 8, and to 99,999 for other record types. The minimum value is 10 pixels. The total image size (HLL times VLL) must be able to be accommodated in Field xx.001 for Traditional encoding. This field is mandatory if an image is present in Field 17.999: Iris image data (DATA). Otherwise it is absent.		
Field Min	2	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	10 <= HLL <= 99999; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	biom_2:ImageHorizontalLineLengthPixelQuantity	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.007

Vertical Line Length

Mnemonic	VLL	Conditionality	D
		Status	Active
Description	VLL defines the number of horizontal lines contained in the image. The maximum vertical size is limited to 65,535 pixels in Record Types-4 and 8, and to 99,999 for other record types. The minimum value is 10 pixels. This field is mandatory if an image is present in Field 17.999: Iris image data (DATA). Otherwise it is absent.		
Field Min	2	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	10 <= VLL <= 99999; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	biom_2:ImageVerticalLineLengthPixelQuantity	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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15.008

Scale Units

Mnemonic	SLC	Conditionality	D
		Status	Active
Description	This field is the image sampling frequency (pixel density). A value of "1" shall indicate pixels per inch. A value of "2" shall indicate pixels per centimeter. A value of "0" in this field indicates that no scale is provided, and the quotient of THPS/TVPS shall provide the pixel aspect ratio. For contact exemplar friction ridge images, a value of 1 or 2 shall be specified. For a value of 1 or 2, the transmitted horizontal and vertical scales shall be the same. A value of 1 or 2 shall also be specified for latent friction ridge prints if the lifted latent print is transmitted directly from a scanner. If the latent print is contained in a photograph, a value of 1 or 2 shall be entered only if the image of the latent was captured with a scale measurement visible in the image and the pixels across an inch or centimeter can be calculated – given the known characteristics of the camera and its distance from the latent print. A value of 0 for a latent print indicates that the true ppi value of the image is not known. For non-contact images of body parts, SLC shall be set to 0 unless the object being imaged is a fixed distance from the capture device and the ppi or ppm values for the capture device are accurately known at that fixed distance. (An example might be an iris capture device with a very small effective capture zone). NGI-DOC-01078-10.0 - For A value of "0" in this field indicates that no scale is provided, and NGI will reject transactions containing this value.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= SLC <= 2; integer
Code List	SCALE UNIT CODE		
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	biom_2:ImageScaleUnitsCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.009

Transmitted Horizontal Pixel Scale

Mnemonic	THPS	Conditionality	D
		Status	Active
Description	This is the integer pixel density used in the horizontal direction of the image if SLC has a value of "1" or "2". If SLC has a value of "0", this information item shall contain the horizontal component of the pixel aspect ratio, up to 5 integer digits. For example, if the SLC value = 1, then the value of THPS could be '1000' for a 1000 ppi sensor. When using certain formats, such as PNG, conversion from ppm (or other scales) may result in a decimal value. Since these fields require integer values, rounding should be used. Any value greater than x.0 and less than x.5 would be rounded down to x, regardless of the number of significant digits to the right of the decimal.		
Field Min	1	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	biom_2:ImageHorizontalPixelDensityValue	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.01

Transmitted Vertical Pixel Scale

Mnemonic	TVPS	Conditionality	D
		Status	Active
Description	This is the integer pixel density used in the vertical direction of the image if SLC has a value of "1" or "2". If SLC has a value of "0", this information item shall contain the vertical component of the pixel aspect ratio, up to 5 integer digits. If SLC is 1 or 2, then TVPS shall equal THPS. When using certain formats, such as PNG, conversion from ppm (or other scales) may result in a decimal value. Since these fields require integer values, rounding up at .5 should be used. For example with the values 1.3, 1.5 and 1.8 the resulting TVPS values would be 1, 2, and 2.		
Field Min	1	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	biom_2:ImageVerticalPixelDensityValue	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.011

Compression Algorithm

Mnemonic	CGA	Conditionality	D
		Status	Active
Description	This is a mandatory field. It shall specify the algorithm used to compress the transmitted color or grayscale images.		
Field Min	3	Occur Min	0
Field Max	5	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	see Lookup Codes
Code List	COMPRESSION CODES		
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	biom_2:ImageCompressionAlgorithmText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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15.012

Bits Per Pixel

Mnemonic	BPX			Conditionality	D		
				Status	Active		
Description	This ASCII field shall contain the number of bits used to represent a pixel. This field shall contain an entry of “8” for normal grayscale values of “0” to “255” or each RGB color component. Any entry in this field greater than “8” shall represent a grayscale or color pixel component with increased precision. For color, BPX represents the total number of bits per pixel (not per color).						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:PalmprintImage_1				Cardinality	1...1	
XML Level 2	biom_2:ImageBitsPerPixelQuantity				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.013

Friction Ridge Generalized Position

Mnemonic	FGP		Conditionality	M	
			Status	Active	
Description	This field is used in Record types dealing with friction ridges. It specifies which friction ridge biometric sample was collected. This field shall contain the palm print position that matches the palm print image. Valid codes range from 20 to 38, or 81 to 86228.				
Field Min	2		Occur Min	1	
Field Max	2		Occur Max	1	
Char Types	N		Special Chars	20 <= FGP <= 38 or 81 <= FGP <= 84; see Look Up Codes	
Format	n/a		Constraints	n/a	
Code List	FRICTION RIDGE POSITION CODES				
Source	ANSI/NIST ITL 1-2013 (Type-15)				
XML Level 1	biom:PalmprintImage_1			Cardinality	1...1
XML Level 2	biom:PalmPositionCode			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

15.016Scanned Horizontal Pixel Scale

Mnemonic	SHPS			Conditionality	0		
				Status	Active		
Description	This ASCII field shall specify the horizontal pixel density used for scanning providing the SLC field contains a "1" or a "2". Otherwise, it indicates the horizontal component of the pixel aspect ratio. This field is used if the transmission pixel scale differs from the original image scale, as listed in Transmitted horizontal pixel scale (THPS).						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)				Cardinality	1...1	
XML Level 2	biom:CaptureHorizontalPixelDensityValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.017Scanned Vertical Pixel Scale

Mnemonic	SVPS			Conditionality	0		
				Status	Active		
Description	This ASCII field shall specify the vertical pixel density used for scanning providing the SLC field contains a "1" or a "2". Otherwise, it indicates the vertical component of the pixel aspect ratio.						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)				Cardinality	1...1	
XML Level 2	biom_2:CaptureVerticalPixelDensityValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.018Amputated or Bandaged

Mnemonic	AMP	Conditionality	0
		Status	Active
Description	This optional field shall specify if one or more fingers are amputated or bandaged. This field shall consist of one subfield for each amputated or missing finger. Each subfield shall contain two information items.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	biom:PalmprintImageMissingArea	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.018_0Amputated or Bandaged*Subfields: Repeating sets of information items*

Mnemonic	AMP_0	Conditionality	M↑
		Status	New-Active
Description	This optional field shall specify if one or more fingers are amputated or bandaged. This field shall consist of one subfield for each amputated or missing finger. Each subfield shall contain two information items.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	9
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	biom:PalmprintImageMissingArea	Cardinality	0..9
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

15.018_1Amputated or Bandaged*Friction Ridge Amputation or Bandage Position*

Mnemonic	FRAP			Conditionality	M↑		
				Status	Active		
Description	The first information item of the amputated and bandaged field indicating the friction ridge position between 21 and 38 or 81 through 86. This information item is called the friction ridge amputated or bandaged position / FRAP to differentiate it from FGP.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	21 <= FRAP <= 38 or 81 <= FRAP <= 84; see Look Up Codes		
Code List	PALM POSITION (NIST)						
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:PalmprintImage_1				Cardinality	1...1	
XML Level 2	biom:PalmprintImageMissingArea				Cardinality	0..9	
XML Level 3	biom:PalmPositionCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.018_2Amputated or Bandaged*Amputated or Bandaged Code*

Mnemonic	ABC			Conditionality	M↑		
				Status	Active		
Description	This information item provides the code that describes the reason the finger's image is missing.						
Field Min	2			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	ABC = XX or UP		
Code List	AMPUTATED OR BANDAGED CODE						
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:PalmprintImage_1				Cardinality	1..1	
XML Level 2	biom:PalmprintImageMissingArea				Cardinality	0..9	
XML Level 3	biom:PalmMissingAreaReasonCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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15.02

Comment

Mnemonic	COM	Conditionality	O
		Status	Active
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.		
Field Min	1	Occur Min	0
Field Max	126	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	biom_2:ImageCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

15.021

Finger Segment Position

Mnemonic	SEG	Conditionality	D
		Status	New-Active
Description	Contains offsets to the locations of image segments containing the individual fingers within the flat images of simultaneous fingers from each hand or the two simultaneous thumbs. This field shall only be present if FGP = 20, 21, 23, 37, 38, 83 or 84 from as entered in Field 15.013: Friction ridge generalized position (FGP). The subfield occurs at least once, and may be repeated if more than one algorithm is used to segment the image.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom_2:FingerprintImageSegmentPositionSquare	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

15.021_0Finger Segment Position*Subfields: Repeating sets of information items*

Mnemonic	SEG_0			Conditionality	M↑		
				Status	New-Active		
Description	Contains offsets to the locations of image segments containing the individual fingers within the flat images of simultaneous fingers from each hand or the two simultaneous thumbs. This field shall only be present if FGP = 20, 21, 23, 37, 38, 83 or 84 from as entered in Field 15.013: Friction ridge generalized position (FGP). The subfield occurs at least once, and may be repeated if more than one algorithm is used to segment the image.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	17		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom_2:FingerprintImageSegmentPositionSquare				Cardinality	0..17	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

15.021_1Finger Segment Position*Friction Ridge Segment Position*

Mnemonic	FRSP			Conditionality	M↑		
				Status	New-Active		
Description	The first information item is the friction ridge segment position / FRSP with values of 22, 24 – 36, 81, 82, 85 or 86 selected. This information item is called the friction ridge segment position / FRSP to differentiate it from FGP.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	FSRP = 22, 24-36, 81, 82, 85 or 86; integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom_2:FingerprintImageSegmentPositionSquare				Cardinality	0..17	
XML Level 2	biom:PalmPositionCode				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

15.021_2Finger Segment Position*Bottom Vertical Coordinate Value*

Mnemonic	BVC	Conditionality	M↑
		Status	New-Active
Description	This field contained the vertical offset from the upper left corner of the image down to the bottom of the bounding box.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	TVC < BVC < VLL; integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom_2:FingerprintImageSegmentPositionSquare	Cardinality	0..17
XML Level 2	biom_2:SegmentBottomVerticalCoordinateValue	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

15.021_3Finger Segment Position*Left Horizontal Coordinate Value*

Mnemonic	LHC	Conditionality	M↑
		Status	New-Active
Description	This field described the horizontal offset in pixels to the left edge of the bounding box relative to the origin positioned in the upper left corner of the image.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 < LHC < HLL; integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom_2:FingerprintImageSegmentPositionSquare	Cardinality	0..17
XML Level 2	biom_2:SegmentLeftHorizontalCoordinateValue	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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15.021_4

Finger Segment Position

Right Horizontal Coordinate Value

Mnemonic	RHC			Conditionality	M↑		
				Status	New-Active		
Description	This field describes the horizontal offset in pixels to the right edge of the bounding box relative to the origin positioned in the upper left corner of the image.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	LHC < RHC < HLL; integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom_2:FingerprintImageSegmentPositionSquare				Cardinality	0..17	
XML Level 2	biom_2:SegmentRightHorizontalCoordinateValue				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

15.021_5

Finger Segment Position

Top Vertical Coordinate Value

Mnemonic	TVC			Conditionality	M↑		
				Status	New-Active		
Description	This field contains the vertical offset (pixel counts down) to the top of the bounding box.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 < TVC < VLL; integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom_2:FingerprintImageSegmentPositionSquare				Cardinality	0..17	
XML Level 2	biom_2:SegmentTopVerticalCoordinateValue				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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15.023

Scanned Vertical Pixel Scale

Mnemonic	SVPS			Conditionality	0		
				Status	Active		
Description	This ASCII field shall specify the vertical pixel density used for scanning providing the SLC field contains a "1" or a "2". Otherwise, it indicates the vertical component of the pixel aspect ratio. This field is used if the transmission pixel scale differs from the original image scale, as listed in Transmitted Vertical Pixel Scale (TVPS).						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom_2:CaptureVerticalPixelDensityValue				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.024

Palmprint Quality Metric

Mnemonic	PQM		Conditionality	M↑	
			Status	Active	
Description	This ASCII set is used to specify one or more different metrics of palm image quality score data for the image stored in this record. The meaning attributed to this metric must be defined and interpreted by the producer of the scoring algorithm or by the person or system used to assign the metric to the palm print image. This field may contain one or more subfields, each consisting of four information items. The first information item is the palm code. The other three items identify a quality score and the algorithm used to create the quality score. This information is useful to enable the recipient of the quality score to differentiate between quality scores generated by different algorithms and adjust for any differences in processing or analysis as necessary. Valid codes range from 20 to 38, and 81 to 86.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-15)				
XML Level 1	biom:PalmprintImage_1			Cardinality	0...1
XML Level 2	biom:PalmprintImageQuality			Cardinality	0..9
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

15.024_0Palmprint Quality Metric

Mnemonic	PQM_0	Conditionality	M↑
		Status	New-Active
Description	This ASCII set is used to specify one or more different metrics of palm image quality score data for the image stored in this record. The meaning attributed to this metric must be defined and interpreted by the producer of the scoring algorithm or by the person or system used to assign the metric to the palm print image. This field may contain one or more subfields, each consisting of four information items. The first information item is the palm code. The other three items identify a quality score and the algorithm used to create the quality score. This information is useful to enable the recipient of the quality score to differentiate between quality scores generated by different algorithms and adjust for any differences in processing or analysis as necessary. Valid codes range from 20 to 38, and 81 to 86.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	9
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	biom:PalmprintImageQuality	Cardinality	0..9
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

15.024_1Palmprint Quality MetricFriction Ridge Metric Position

Mnemonic	FRMP	Conditionality	M↑
		Status	New-Active
Description	The first information item of a quality metric field indicating the friction ridge position. Valid codes range from 20 to 38, and 81 to 86		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	20 <= FRMP <= 38 or 81 <= FRMP <= 86; positive integer
Code List	FRICTION RIDGE POSITION CODES		
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	biom:PalmprintImageQuality	Cardinality	0..9
XML Level 3	biom:PalmPositionCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

15.024_2Palmprint Quality MetricQuality Value

Mnemonic	QVU	Conditionality	M↑
		Status	New-Active
Description	This information item shall contain the integer image quality score between 0 and 100 (inclusive) assigned to the image data by a quality algorithm. Higher values indicate better quality. An entry of "255" shall indicate a failed attempt to calculate a quality score. An entry of "254" shall indicate that no attempt to calculate a quality score was made.		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= QVU <= 100 or QVU = 254 or 255; integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	biom:PalmprintImageQuality	Cardinality	0..9
XML Level 3	biom_2: ImageQualityType	Cardinality	1..1
XML Level 4	biom:QualityAlgorithmProductIdentification\nc:identificationType	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.024_3Palmprint Quality MetricAlgorithm Vendor Identification

Mnemonic	QAV	Conditionality	M↑
		Status	New-Active
Description	This information item shall specify the ID of the vendor of the quality algorithm used to calculate the quality score. This 4-digit hex value is assigned by IBIA and expressed as four ASCII characters. The IBIA shall maintain the Vendor Registry of CBEFF Biometric Organizations that will map the value in this field to a registered organization.		
Field Min	4	Occur Min	1
Field Max	4	Occur Max	1
Char Types	H	Special Chars	None
Format	n/a	Constraints	0000 <= QAV <= FFFF
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	biom:PalmprintImageQuality	Cardinality	0..9
XML Level 3	biom_2: ImageQualityType	Cardinality	1..1
XML Level 4	biom_2:QualityValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.024_4Palmprint Quality Metric*Algorithm Product Identification*

Mnemonic	QAP	Conditionality	M↑
		Status	New-Active
Description	This information item shall specify a numeric product code assigned by the vendor of the quality algorithm, which may be registered with the IBIA, but it is not required to be registered. It indicates which of the vendor's algorithms was used in the calculation of the quality score. This field contains the ASCII representation of the integer product code and should be within the range 1 to 65535.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= QAP <= 65535; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	biom:PalmprintImageQuality	Cardinality	0..9
XML Level 3	biom_2: ImageQualityType	Cardinality	1..1
XML Level 4	biom_2:QualityAlgorithmVendorIdentification\nc:IdentificationType	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

15.03Device Monitoring Mode

Mnemonic	DMM	Conditionality	0
		Status	Active
Description	This field provides information describing the human monitoring operation of the image capture device. This field will contain an entry from to indicate the monitoring mode of the biometric sample capture device.		
Field Min	7	Occur Min	0
Field Max	10	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	see Lookup Values
Code List	CAPTURE DEVICE MONITORING MODE CODE		
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureDeviceMonitoringModeCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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15.046

Image Subject Condition

Mnemonic	SUB			Conditionality	0		
				Status	New-Active		
Description	This field is optional. This field is particularly useful if the image is obtained from a deceased person. However, its use is not limited to such circumstances. Some implementation domains support the submission of fingerprints taken from deceased individuals as latent prints, due to the quality of the friction ridges and the resulting images. In such cases, SSC is specified as D. For latent images taken from a surface, the value is typically X. There may be different values for SUB in different instances of Type-15 records.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format				Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:PalmprintImage_1				Cardinality		
XML Level 2	biom:SubjectExistentialDetails				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

15.046_1

Image Subject Condition

Subject Status Code

Mnemonic	SSC			Conditionality	M↑		
				Status	New-Active		
Description	The first information item is mandatory if this field is present. It is subject status code (SSC).						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	SSC = X, A or D		
Code List	SUBJECT STATUS CODE						
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:PalmprintImage_2				Cardinality		
XML Level 2	biom:SubjectExistentialDetails				Cardinality	0..1	
XML Level 3	biom:SubjectExistentialStatusCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

15.046_2Image Subject Condition*Subject Body Status Code*

Mnemonic	SBSC	Conditionality	D
		Status	New-Active
Description	The second information item shall be entered if and only if SSC is D. It is subject body status code (SBSC). Its purpose is to indicate whether the information relates to an entire corpse or a separate body part.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	SBSC = 1 or 2
Code List	SUBJECT BODY STATUS CODE		
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_3	Cardinality	
XML Level 2	biom:SubjectExistentialDetails	Cardinality	0..1
XML Level 3	biom:SubjectBodyStatusCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

15.046_3Image Subject Condition*Subject Body Class Code*

Mnemonic	SBCC	Conditionality	D
		Status	New-Active
Description	The third information item shall be entered if and only if SSC is D. It is subject body class code (SBCC).		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	SBCC = 1 or 2
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_4	Cardinality	
XML Level 2	biom:SubjectExistentialDetails	Cardinality	0..1
XML Level 3	biom:SubjectBodyClassCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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15.047

Capture Organization Name

Mnemonic	CON	Conditionality	0
		Status	New-Active
Description	This field is optional. Note that this can be different from the agency entered in Field 13.004: Source agency (SRC) and Field 13.993: Source agency name (SAN). SRC and SAN describe the agency that created the record. Since the record may have been forwarded by another agency to the final destination, Field 1.008: Originating agency identifier (ORI) is used to indicate the transmitting organization. In many implementation domains, there are a limited number of transmission organizations that can send data. Therefore, the agency listed in SRC may send the transaction to another location that has access rights to the final destination. This intermediary may add information to the transaction, as well. The final transmitting organization code is listed in Field 1.008: Originating agency identifier (ORI). Its name may be entered in Originating agency name (OAN) in Field 1.017: Agency names (ANM). The final transmitting organization code is listed in Field 1.008: Originating agency identifier / ORI. Its name may be entered in Originating agency name /OAN in Field 1.017: Agency names / ANM.		
Field Min	1	Occur Min	0
Field Max	1000	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	nc:OrganizationUnitName	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

15.2

Image Source Code

Mnemonic	ISC	Conditionality	0
		Status	Active
Description	This optional numeric field indicates to which source the included image belongs. This field allows images from multiple biometric sets that use the same record type to be distinguishable. Two different values are used for the Palmprint card to distinguish between the index finger image on the front of the card and the index finger that is part of the set of five finger images on the back of the card. Livescan palm capture should use value		
Field Min	0	Occur Min	0
Field Max	2	Occur Max	*
Char Types	N	Special Chars	None
Format	n/a	Constraints	ISC = 1, 2, 3, or 4
Code List	ISC CODE		
Source	NGI-DOC-01078-10.0 (Type-15)		
XML Level 1	fbi-ebts:ImageSourceCode	Cardinality	0...*
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.902Annotated Information

Mnemonic	ANN			Conditionality	M↑		
				Status	Active		
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.902_0Annotated Information*Subfields: Repeating sets of information items*

Mnemonic	ANN_0			Conditionality	D		
				Status	New-Active		
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

15.902_1Annotated Information*Greenwich Mean Time*

Mnemonic	GMT			Conditionality	M↑		
				Status	Active		
Description	This information item is the Greenwich Mean Time (GMT) when the processing occurred. The data is formatted as YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. This time is independent of the actual time zone where the time and date is recorded.						
Field Min	dependent on encoding			Occur Min	1		
Field Max	dependent on encoding			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom:ProcessUTCDate/nc:DateTime				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.902_2Annotated Information*Processing Algorithm Name / Version*

Mnemonic	NAV			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain text identifying the name and version of the processing algorithm, application, procedure, or workstation						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom:ProcessName				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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15.902_3

Annotated Information

Algorithm Owner

Mnemonic	OWN			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain an unformatted text string of up to 64 characters with the contact information for the organization that owns the processing algorithm or latent workstation. Where there is no 'algorithm owner,' enter N/A.						
Field Min	1			Occur Min	1		
Field Max	64			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom:ProcessOwnerText				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.902_4

Annotated Information

Process Description

Mnemonic	PRO			Conditionality	M↑		
				Status	Active		
Description	This information item field shall contain text describing a process or procedure applied to the sample in this Type-9 record.						
Field Min	1			Occur Min	0		
Field Max	255			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom:ProcessDescriptionText				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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15.903

Device Unique Identifier

Mnemonic	DUI	Conditionality	O
		Status	Active
Description	The DUI shall contain a string uniquely identifying the device or source of the data. This field shall be one of the following: a Host PC MAC address (identified by the first character "M"), a Host PC processor ID (identified by the first character "P"). since it is available in the Make / Model / Serial Number field.		
Field Min	13	Occur Min	0
Field Max	16	Occur Max	1
Char Types	ANS	Special Chars	Any
Format	n/a	Constraints	first character = M or P
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_2:CaptureDeviceIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.904

Make/Model/Serial Number

Mnemonic	MMS	Conditionality	O
		Status	Active
Description	The MMS contains the make, model and serial number for the capture device. It shall consist of three information items. Each information item shall be 1 to 50 characters. Unknown information may be indicated with the value "0." Any or all information items may indicate that information is unknown with the value "0".		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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15.904_1

Make/Model/Serial Number

Make

Mnemonic	MAK			Conditionality	M↑		
				Status	Active		
Description	The name of the manufacturer for the capture device.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:PalmpointImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)				Cardinality	1...1	
XML Level 2	biom_2:CaptureDeviceMakeText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.904_2

Make/Model/Serial Number

Model

Mnemonic	MOD			Conditionality	M↑		
				Status	Active		
Description	The model number for the capture device.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:PalmpointImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)				Cardinality	1...1	
XML Level 2	biom_2:CaptureDeviceModelText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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15.904_3

Make/Model/Serial Number

Serial Number

Mnemonic	SER	Conditionality	M↑
		Status	Active
Description	The serial number for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_2:CaptureDeviceSerialNumberText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.993

Source Agency Name

Mnemonic	SAN	Conditionality	0
		Status	Active
Description	This is an optional field. It may contain up to 125 Unicode characters. It is the name of the agency referenced in Field xx.004: Source agency / SRC for record types 9-99.		
Field Min	1	Occur Min	0
Field Max	125	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureOrganization	Cardinality	1..1
XML Level 3	nc:OrganizationName	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Associated Context

Mnemonic	ASC			Conditionality	0		
				Status	Active		
Description	This optional field refers to one or more Type 21 Records with the same ACN. Type 21 Records contain images that are NOT used to derive the biometric data in Field 13.999: Latent friction ridge image (DATA) but that may be relevant to the collection of that data, such as general scenes of the area where a latent print was found.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:AssociatedContext				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.995_0

Associated Context

Mnemonic	ASC_0			Conditionality	M↑		
				Status	New-Active		
Description	This optional field refers to one or more Type 21 Records with the same ACN. Type 21 Records contain images that are NOT used to derive the biometric data in Field 13.999: Latent friction ridge image (DATA) but that may be relevant to the collection of that data, such as general scenes of the area where a latent print was found.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	255		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:AssociatedContext				Cardinality	0..255	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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15.995_1

Associated Context

Associated Context Number

Mnemonic	ACN			Conditionality	M ↑
				Status	Active
Description	The first information item for the Associated Context field for a particular Record Type-21. This is mandatory for each Field xx.995, when the field is used. It contains an index to a particular instance of a Type-21 record in the transaction. This same index value appears in the appropriate instance of Record Type-21 as Field 21.021: Associated context number (CAN). The value of the CAN shall be a sequentially assigned a positive integer starting from one and incremented by one, not to exceed 255.				
Field Min	1			Occur Min	1
Field Max	3			Occur Max	1
Char Types	N			Special Chars	None
Format	n/a			Constraints	1 <= ACN <= 255; positive integer
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-15)				
XML Level 1	biom:AssociatedContext			Cardinality	0..255
XML Level 2	biom_2:ContextIdentification/nc:IdentificationID			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

15.995_2

Associated Context

Associated Segment Position

Mnemonic	ASP			Conditionality	O↑		
				Status	Active		
Description	The first information item is the associated segment position (ASP). This provides a unique index to a segmentation.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	1 <= ASP <= 99		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:AssociatedContext				Cardinality	0..255	
XML Level 2	biom_2:ImageSegmentIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Hash

Mnemonic	HAS	Conditionality	O
		Status	Active
Description	Optional field xx.996, is designed for use in Record types 10 and above with a Field xx.999 storing the biometric data. It is comprised of 64 characters representing hexadecimal values. Thus, each character may be a digit from "0" to "9" or a letter "A" through "F". See the latest version of the Federal Information Processing Standard 180, Secure Hash Standard for information on computing SHA-256 hashes. At the time of this standard's publication, FIPS 180-37 had been published. It is also possible to use Field xx.996 to contain the hash for data stored externally, which is referenced in Field 20.994: External file reference (EFR) and/or Field 21.994: External file reference (EFR). The ability to store files externally is new to this version of the standard, and is only implemented for the two new record types referred to here. Use of the hash enables the receiver of the data to perform quick searches of large databases to determine if the data already exist in the database. It is not intended as an information assurance check. That is handled by Record Type-98: Information assurance record.		
Field Min	64	Occur Min	0
Field Max	64	Occur Max	1
Char Types	H	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom_2:ImageHashValue	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

15.997

Source Representation

Source Representation Number

Mnemonic	SOR	Conditionality	O
		Status	Active
Description	This optional field refers to a representation in Record Type-20 with the same SRN from which the data in Field 13.999: Latent friction ridge image (DATA) was derived.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:SourceRepresentation	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Source Representation

Source Representation Number

Mnemonic	SOR_0			Conditionality	M↑		
				Status	New-Active		
Description	This optional field refers to a representation in Record Type-20 with the same SRN from which the data in Field 13.999: Latent friction ridge image (DATA) was derived.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	255		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:SourceRepresentation				Cardinality	0..255	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

15.997_1

Source Representation

Source Representation Number

Mnemonic	SRN			Conditionality	M↑		
				Status	Active		
Description	This is the first information item and is mandatory for each Field xx.997. It contains an index to a particular instance of a Type-20 record in the transaction. This same index value appears in the appropriate instance of Record Type-20 as Field 20.021: Source representation number (SRN). The value of the SRN shall be a sequentially assigned a positive integer starting from one and incremented by one, not to exceed 255.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= SRN <= 255; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:SourceRepresentation				Cardinality	0..255	
XML Level 2	biom:SourceIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.997_2Source Representation*Reference Segment Position*

Mnemonic	RSP			Conditionality	0↑		
				Status	Active		
Description	The first information item is the reference segment position (RSP). This provides a unique index to a segmentation.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= RSP <= 99; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:SourceRepresentation				Cardinality	0..255	
XML Level 2	biom:ImageSegmentIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.998Geographic Sample Acquisition Location

Mnemonic	GEO			Conditionality	0		
				Status	Active		
Description	This optional field contains the location where the iris sample/original source/context information was acquired – not where it is stored.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)				Cardinality	1...1	
XML Level 2	dod-ebts:CaptureLocation				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Geographic Sample Acquisition Location

Universal Time Entry

Mnemonic	UTE	Conditionality	O↑
		Status	Active
Description	The coordinated universal time (UTC) where the biometric sample was collected. This time is independent of the actual time zone where the time and date is recorded. The date is YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. If sample collection time is unknown, set it to "00000000000000Z."		
Field Min	dependent on encoding	Occur Min	0
Field Max	dependent on encoding	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureUTCDateTime/nc:DateTime	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.998_02

Geographic Sample Acquisition Location

Latitude Degree Value

Mnemonic	LTD	Conditionality	D
		Status	Active
Description	The second information item is latitude degree value (LTD). This is a value that specifies the degree of latitude. The value shall be between -90 (inclusive) and +90 (inclusive). The degrees may be expressed as an integer (without a decimal) or a real number including decimals. If decimals are present, then minutes and seconds shall be empty. Examples: Buenos Aires, Argentina: -34 (with minutes LTM = 36) NIST, Gaithersburg, Maryland: 39.137627 (no LTM or LTS)		
Field Min	1	Occur Min	1
Field Max	9	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	-90 < LTD < 90
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude	Cardinality	0..1
XML Level 4	nc:LatitudeDegreeValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.998_03Geographic Sample Acquisition Location*Latitude Minute Value*

Mnemonic	LTM	Conditionality	D
		Status	Active
Description	This information item is latitude minute value (LTM). This is a value that specifies a minute of a degree. The value shall be between 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall be empty. Thus, the allowed special character is a period. The minute value can be empty, even if the degree value is an integer. LTM and LGM are co-conditional, so they shall both be present if either is present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	0 <= LTM < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude	Cardinality	0..1
XML Level 4	nc:LatitudeMinuteValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

15.998_04Geographic Sample Acquisition Location*Latitude Second Value*

Mnemonic	LTS	Conditionality	D
		Status	Active
Description	The fourth information item is the latitude second value (LTS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LTS < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude	Cardinality	0..1
XML Level 4	nc:LatitudeSecondValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

15.998_05Geographic Sample Acquisition Location*Longitude Degree Value*

Mnemonic	LGD	Conditionality	D
		Status	Active
Description	The fifth information item is the longitude degree value (LGD). It is a value that specifies the degree of a longitude. The value shall be between -180 (inclusive) and +180 (inclusive). If LTD is present, then LGD shall be present. The degrees may be expressed as whole numbers (without a decimal) or real numbers including decimals. If decimals are present, then minutes and seconds are empty. Examples: Buenos Aires, Argentina: -58 (with minutes LGM = 22), NIST, Gaithersburg, Maryland: -77.216032 (no LGM or LGS)		
Field Min	1	Occur Min	0
Field Max	10	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	-180 <= LGD <= 180
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude	Cardinality	0..1
XML Level 4	nc:LongitudeDegreeValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

15.998_06Geographic Sample Acquisition Location*Longitude Minute Value*

Mnemonic	LGM	Conditionality	D
		Status	Active
Description	The sixth information item is the longitude minute value (LGM). It is a value that specifies a minute of a degree. The value shall be from 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall not appear. The minute value is empty, even if the degree value is an integer. If LTM is present, then LGM shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	1 <= LGM < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude	Cardinality	0..1
XML Level 4	nc:LongitudeMinuteValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

15.998_07Geographic Sample Acquisition Location*Longitude Second Value*

Mnemonic	LGS	Conditionality	D
		Status	Active
Description	The seventh information item is the longitude second value (LGS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer. If LTS is present, then LGS shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LGS < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLatitude	Cardinality	0..1
XML Level 4	nc:LongitudeSecondValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.998_08Geographic Sample Acquisition Location*Elevation*

Mnemonic	ELE	Conditionality	D
		Status	Active
Description	The eighth information item is elevation (ELE). It is expressed in meters. It is a numeric value. It is between -422 meters (Dead Sea) and 8848 meters (Mount Everest). Allowed special characters are the negative sign and the period.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Minus Sign,Period
Format	n/a	Constraints	-422.000 < ELE < 8848.000; real number
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationGeographicElevation	Cardinality	0..1
XML Level 4	nc:MeasurePointValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Geographic Sample Acquisition Location

Geodetic Datum Code

Mnemonic	GDC	Conditionality	D
		Status	Active
Description	The ninth information item is the geodetic datum code (GDC11). It is an alphanumeric value of 3 to 6 characters in length. This information item is used to indicate which coordinate system was used to represent the values in information items 2 through 7. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values.		
Field Min	3	Occur Min	0
Field Max	6	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	GEOGRAPHIC COORDINATE DATUM CODE		
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate	Cardinality	0..1
XML Level 4	biom:GeodeticDatumCoordinateSystemCode or biom:GeodeticDatumCoordinateSystemName	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.998_10

Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Zone

Mnemonic	GCM	Conditionality	D
		Status	Active
Description	It is an alphanumeric value of 2 to 3 characters. This is a one or two digit UTM zone number followed by the 8 degree latitudinal band designator (which is a single letter).		
Field Min	2	Occur Min	0
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	One or two integers followed by a single letter. Valid latitudinal band designators include C through X, omitting I and O.
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 4	nc:UTMGridZoneID	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Easting

Mnemonic	GCE			Conditionality	D		
				Status	Active		
Description	The eleventh information item is the geographic coordinate universal transverse Mercator easting (GCE). It is an integer of 1 to 6 digits.						
Field Min	1			Occur Min	0		
Field Max	6			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)				Cardinality	1...1	
XML Level 2	biom:CaptureLocation				Cardinality	0..1	
XML Level 3	nc:LocationUTMCoordinate				Cardinality	0..1	
XML Level 4	nc:UTMEastingValue				Cardinality	0..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

15.998_12

Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Northing

Mnemonic	GCN			Conditionality	D		
				Status	Active		
Description	The twelfth information item is the geographic coordinate universal transverse Mercator northing (GCN). It is an integer of 1 to 8 digits.						
Field Min	1			Occur Min	0		
Field Max	8			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-15)						
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)				Cardinality	1...1	
XML Level 2	biom:CaptureLocation				Cardinality	0..1	
XML Level 3	nc:LocationUTMCoordinate				Cardinality	0..1	
XML Level 4	nc:UTMNorthingValue				Cardinality	0..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Geographic Sample Acquisition Location

Geographic Reference Text

Mnemonic	GRT	Conditionality	O
		Status	Active
Description	It is a free form text describing a street address or other physical location (such as 'Corner of Washington and Madison, Geneva, NY').		
Field Min	1	Occur Min	1
Field Max	150	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom_2:LocationAlternateGeographicSystemValue	Cardinality	0..1
XML Level 4	biom_2:GeographicLocationText	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

15.998_14

Geographic Sample Acquisition Location

Geographic Coordinate Other System Identifier

Mnemonic	OSI	Conditionality	O
		Status	Active
Description	A fourteenth optional information item geographic coordinate other system identifier (OSI) allows for other coordinate systems. This information items specifies the system identifier. It is up to 10 characters in length. Examples are: • MGRS (Military Grid Reference System), • USNG (United States National Grid), • GARS (Global Area Reference System), • GEOREF (World Geographic Reference), • LANDMARK landmark (e.g. hydant) and position relative to the landmark.		
Field Min	1	Occur Min	1
Field Max	10	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom_2:LocationAlternateGeographicSystemValue	Cardinality	0..1
XML Level 4	biom_2:GeographicLocationSystemName	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-15: Variable-Resolution Palmprint Image

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15.998_15

Geographic Sample Acquisition Location

Geographic Coordinate Other System Value

Mnemonic	OCV	Conditionality	D
		Status	Active
Description	A fifteenth optional information item, is the geographic coordinate other system value (OCV). It shall only be present if OSI is present in the record. It can be up to 126 characters in length. If OSI is LANDMARK, OCV is free text and may be up to 126 characters. For details on the formatting of OCV for the other coordinate systems shown in OSI as examples, see http://earth-info.nga.mil/GandG/coordsys/grids/referencesys.html .		
Field Min	1	Occur Min	0
Field Max	126	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom_2:LocationAlternateGeographicSystemValue	Cardinality	0..1
XML Level 4	biom_2:GeographicLocationText	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

15.999

Palmprint Image

Mnemonic	DATA	Conditionality	D
		Status	Active
Description	This field contains the palm print image. It shall contain an image, unless Field 15.018: Amputated or bandaged / AMP has a value of "UP". In the latter case, the field is optional.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	B	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-15)		
XML Level 1	biom:PalmprintImage_1	Cardinality	1...1
XML Level 2	nc:BinaryBase64Object	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-15: Variable-Resolution Palmprint Image

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n/a

Capture Device Firmware Version Number (Sunset)

Mnemonic					Conditionality	n/a			
					Status	Retired			
Description	The firmware version number for the biometric capture device that was used to collect the associated biometric sample.								
Field Min	n/a				Occur Min	n/a			
Field Max	n/a				Occur Max	n/a			
Char Types	ANS				Special Chars	Any			
Format	n/a				Constraints	None			
Code List									
Source	ANSI/NIST ITL 1-2011 (Type-15)								
XML Level 1					Cardinality				
XML Level 2					Cardinality				
XML Level 3					Cardinality				
XML Level 4					Cardinality				
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	No		

n/a

Capture Time (Sunset)

Mnemonic						Conditionality	n/a					
						Status	Retired					
Description	This ASCII field shall contain the time in UTC that the biometric sample or contextual information contained in the record was captured. The time shall appear as 6 digits format HHMMSS with 'Z' being the zone designator for the zero UTC offset. The complete time must be a legitimate time.											
Field Min	n/a					Occur Min	n/a					
Field Max	n/a					Occur Max	n/a					
Char Types	AN					Special Chars	None					
Format	n/a					Constraints	None					
Code List												
Source	n/a											
XML Level 1						Cardinality						
XML Level 2						Cardinality						
XML Level 3						Cardinality						
XML Level 4						Cardinality						
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	No					

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-15: Variable-Resolution Palmprint Image

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n/a

Digitization Time (Sunset)

Mnemonic					Conditionality	n/a	
					Status	Retired	
Description	The Greenwich Mean Time (GMT) when the image was digitized if different then the capture date in order for submission.						
Field Min	n/a				Occur Min	n/a	
Field Max	n/a				Occur Max	n/a	
Char Types	AN				Special Chars	None	
Format	n/a				Constraints	n/a	
Code List							
Source	n/a						
XML Level 1						Cardinality	
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	No

15.201

Capture Device Global Identifier (Sunset)

Mnemonic	DEV_GI		Conditionality	0	
			Status	Retired	
Description	This field shall contain a 16-byte string to indicate a global unique identifier for an image capture device.				
Field Min	16		Occur Min	0	
Field Max	16		Occur Max	1	
Char Types	ANS		Special Chars	Any	
Format	n/a		Constraints	None	
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-15)				
XML Level 1	n/a		Cardinality		
XML Level 2			Cardinality		
XML Level 3			Cardinality		
XML Level 4			Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Sunset
				DoD EBTS 4.0	No

17.001Record Header

Mnemonic	LEN	Conditionality	M
		Status	Active
Description	The record header appears as the first field (xx.001) in each Record Type. It contains information particular to the encoding format chosen, in order to enable proper reading of the record. In Traditional encoding, this field contains the record length in bytes (including all information separators). In NIEM-conformant XML encoding, this field contains the RecordCategoryCode, which is the numeric representation of the Record Type.		
Field Min	Encoding Specific	Occur Min	1
Field Max	Encoding Specific	Occur Max	1
Char Types	Encoding Specific	Special Chars	None
Format	n/a	Constraints	Dependent on encoding
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	nist-itl:RecordCategoryCode	Cardinality	1...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.002Information Designation Character

Mnemonic	IDC	Conditionality	M
		Status	Active
Description	Each of the records present in a transaction, with the exception of the Type-1 record, shall include a field (xx.002) containing the information designation character / IDC. The value of the IDC shall be a sequentially assigned positive integer starting from zero and incremented by one up to a maximum of 99. IDC references are stated in Type-1 Field 1.003 Transaction content (CNT) and shall be used to relate information items in the CNT field of the Type-1 record to the other records in the transaction. Two or more records may share a single IDC solely to identify and link together records that pertain to different representations of the same biometric trait.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= IDC <= 99; integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	nist-itl:ImageReferenceIdentification/nc:IdentificationID	Cardinality	1...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-17: Iris Image Data

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17.003

Eye Label

Mnemonic	ELR			Conditionality	M		
				Status	Active		
Description	This field shall contain an identifier for the eye represented by the image in the record. An entry of “0” in this field indicates that the image in this record is undefined. An entry of “1” in this field indicates that the image in this record is the subject's right eye. An entry of “2” in this field indicates that the image in this record is the subject's left eye.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	ELR = 0,1 or 2		
Code List	FEATURE IDENTIFIER CODE						
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage(1...1)				Cardinality	1...1	
XML Level 2	biom_2:IrisEyePosition/biom:IrisEyePositionCode				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.004

Source Agency

Mnemonic	SRC			Conditionality	M		
				Status	Active		
Description	This is the identifier of the agency that actually created the record and supplied the information contained in it.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)				Cardinality	1...1	
XML Level 2	biom_2:CaptureOrganization				Cardinality	1..1	
XML Level 3	nc:OrganizationIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-17: Iris Image Data

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17.005

Iris Capture Date

Mnemonic	ICD	Conditionality	M
		Status	Active
Description	This mandatory field shall contain the date that the iris biometric data contained in the record was captured.		
Field Min	Encoding Specific	Occur Min	1
Field Max	Encoding Specific	Occur Max	1
Char Types	Encoding Specific	Special Chars	None
Format	YYYYMMDD	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1..1
XML Level 2	biom_2:CaptureDate/nc:Date	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.006

Horizontal Line Length

Mnemonic	HLL	Conditionality	D
		Status	Active
Description	HLL defines the number of pixels contained on a single horizontal line of the image. The maximum horizontal size is limited to 65,535 pixels in Record Types-4 and 8, and to 99,999 for other record types. The minimum value is 10 pixels. The total image size (HLL times VLL) must be able to be accommodated in Field xx.001 for Traditional encoding. This field is mandatory if an image is present in Field 17.999: Iris image data / DATA. Otherwise it is absent.		
Field Min	2	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	10 <= HLL <= 99999; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1..1
XML Level 2	biom_2:ImageHorizontalLineLengthPixelQuantity	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-17: Iris Image Data

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17.007

Vertical Line Length

Mnemonic	VLL	Conditionality	D
		Status	Active
Description	VLL defines the number of horizontal lines contained in the image. The maximum vertical size is limited to 65,535 pixels in Record Types-4 and 8, and to 99,999 for other record types. The minimum value is 10 pixels. This field is mandatory if an image is present in Field 17.999: Iris image data / DATA. Otherwise it is absent.		
Field Min	2	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	10 <= VLL <= 99999, positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1..1
XML Level 2	biom_2:ImageVerticalLineLengthPixelQuantity	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.008

Scale Units

Mnemonic	SLC	Conditionality	D
		Status	Active
Description	The image sampling frequency (pixel density). A value of "1" shall indicate pixels per inch. A value of "2" shall indicate pixels per centimeter. A value of "0" in this field indicates that no scale is provided, and the quotient of THPS/TVPS shall provide the pixel aspect ratio.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= SLC <= 2, integer
Code List	SCALE UNIT CODE		
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1..1
XML Level 2	biom_2:ImageScaleUnitsCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-17: Iris Image Data

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17.009

Transmitted Horizontal Pixel Scale

Mnemonic	THPS			Conditionality	D		
				Status	Active		
Description	This is the integer pixel density used in the horizontal direction of the image if SLC has a value of “1” or “2”. If SLC has a value of “0”, this information item shall contain the horizontal component of the pixel aspect ratio, up to 5 integer digits. For example, if the SLC value = 1, then the value of THPS could be ‘1000’ for a 1000 ppi sensor.						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom_2:ImageHorizontalPixelDensityValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.01

Transmitted Vertical Pixel Scale

Mnemonic	TVPS			Conditionality	D		
				Status	Active		
Description	This is the integer pixel density used in the vertical direction of the image if SLC has a value of “1” or “2”. If SLC has a value of “0”, this information item shall contain the vertical component of the pixel aspect ratio, up to 5 integer digits. If SLC is 1 or 2, then TVPS shall equal THPS.						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom_2:ImageVerticalPixelDensityValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-17: Iris Image Data

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17.011

Compression Algorithm

Mnemonic	CGA			Conditionality	D
				Status	Active
Description	This is a mandatory field. It shall specify the algorithm used to compress the transmitted color or grayscale images. While JPEG was allowed in prior versions of this standard, it shall not be allowed for new images. Implementers may want to support JPEG decoding for handling legacy images. The baseline JPEG algorithm (ISO/IEC 10918) shall not be used for Type-17 iris images. It has been shown that both false non-match and false match rates increase due to the presence of tiling artifacts introduced by JPEG's discrete cosine transform.				
Field Min	3			Occur Min	0
Field Max	4			Occur Max	1
Char Types	AN			Special Chars	None
Format	n/a			Constraints	CGA = NONE, PNG, JP2 or JP2L
Code List	COMPRESSION CODES				
Source	ANSI/NIST ITL 1-2013 (Type-17)				
XML Level 1	biom_2:IrisImage			Cardinality	1...1
XML Level 2	biom_2:ImageCompressionAlgorithmText			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

17.012

Bits Per Pixel

Mnemonic	BPX			Conditionality	D		
				Status	Active		
Description	This ASCII field shall contain the number of bits used to represent a pixel. This field shall contain an entry of “8” for normal grayscale values of “0” to “255” or each RGB color component. Any entry in this field greater than “8” shall represent a grayscale or color pixel component with increased precision.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	8 <= BPX <= 99, integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1...1	
XML Level 2	biom_2:ImageBitsPerPixelQuantity				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.013Color Space

Mnemonic	CSP	Conditionality	D
		Status	Active
Description	It shall contain an entry from the lookup codes. If Field 17.025: Effective acquisition spectrum / EAS is set to "NIR" this field shall be set to "GRAY".		
Field Min	3	Occur Min	0
Field Max	4	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	see Lookup Values
Code List	COLOR SPACE CODE		
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom_2:ImageColorSpaceCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.014Rotation Angle of Eye

Mnemonic	RAE	Conditionality	O
		Status	Active
Description	Indicates the in-plane rotation angle of the iris. Such rotation can be caused by head tilt, camera tilt, and also by the common natural rotation of the eye itself. The rotation angle of the eye encoded in this field is defined here in terms of roll of the subject's head. The angle is defined, and measured in degrees, as the angle between a line joining the pupil or iris centers of the left and right eyes, and the horizontal axis of the imaging system. The value "FFFF" indicates rotation angle of eye is undefined. The in-plane eye rotation angle shall be recorded as angle = round (65535 * angle / 360) modulo 65535. This is encoded as a hexadecimal value. For encoding angular orientation of an eye not directed toward the camera, see Field 17.041: Frontal gaze (GAZ). It may be difficult to estimate rotation using a monocular camera. In such cases, the rotation uncertainty encoded in Field 17.015: Rotation uncertainty (RAU) will be appropriately larger.		
Field Min	1	Occur Min	0
Field Max	4	Occur Max	1
Char Types	H	Special Chars	None
Format	n/a	Constraints	0000 <= RAE <= FFFF
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisEyeRotationAngleText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.015**Rotation Uncertainty**

Mnemonic	RAU			Conditionality	D		
				Status	Active		
Description	Indicates the uncertainty in the in-plane eye rotation given in Field 17.014: Rotation angle of eye (RAE). The rotation uncertainty is non-negative and equal to [round (65535 * uncertainty / 180)]. The uncertainty is measured in degrees and is the absolute value of maximum error. The value “FFFF” indicates that uncertainty is undefined. Note that this is encoded as a hexadecimal value. This field is mandatory if Field 17.014: Rotation angle of eye (RAE) is present.						
Field Min	1			Occur Min	0		
Field Max	4			Occur Max	1		
Char Types	H			Special Chars	None		
Format	n/a			Constraints	0000 <= RAE <= FFFF		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1...1	
XML Level 2	biom:IrisEyeRotationUncertaintyValueText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.016**Image Property Code**

Mnemonic	IPC			Conditionality	O		
				Status	Active		
Description	This set shall contain the image property code. It shall contain three information items. The first information item shall indicate the specific horizontal orientation. The second information item shall indicate the specific vertical orientation. The third information item shall indicate the specific scan type. Each information item shall be one character.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage(1...1)/biom:biom:IrisImageCapture(1...1)				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.016_1Image Property Code*Horizontal Orientation*

Mnemonic	IHO	Conditionality	M↑
		Status	Active
Description	This field shall be one of: "0" for Undefined, "1" for Base, or "2" for Flipped. "Base" orientation refers to images corresponding to the view facing the subject, where the nasal side of subject's left eye or outer edge of the subject's right eye is on the left side the of image. "Flipped" orientation refers to images where the orientation is opposite from that described for "Base".		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= IHO <= 2, integer
Code List	IMAGE ORIENTATION CODE		
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom:biom:IrisImageCapture(1...1)	Cardinality	0..1
XML Level 2	biom:IrisImageHorizontalOrientationCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.016_2Image Property Code*Vertical Orientation*

Mnemonic	IVO	Conditionality	M↑
		Status	Active
Description	This shall be one of: "0" for Undefined, "1" for Base, or "2" for Flipped. "Base" orientation refers to images where the superior (top) edge of the eye is at the top of the image. "Flipped" orientation refers to images where the orientation is opposite from that described for "Base".		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= IVO <= 2, integer
Code List	IMAGE ORIENTATION CODE		
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom:biom:IrisImageCapture(1...1)	Cardinality	0..1
XML Level 2	biom:IrisImageVerticalOrientationCode	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.016_3Image Property CodeSpecific Scan Type

Mnemonic	IST		Conditionality	M↑	
			Status	Active	
Description	This shall be one of: “0” for Undefined and “1” for Progressive. “Progressive” indicates that the image was captured using progressive scanning, in which case all image lines are generated sequentially. “2” for Interlace Frame, or “3” for Interlace fields are deprecated and shall not be used in records claiming conformance to this version of the standard.				
Field Min	1		Occur Min	1	
Field Max	1		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	IST = 0 or 1; X = biom:ImageScanCategoryCodeType	
Code List	SCAN TYPE CODE				
Source	ANSI/NIST ITL 1-2013 (Type-17)				
XML Level 1	biom_2:IrisImage(1...1)/biom:biom:IrisImageCapture(1...1)			Cardinality	0..1
XML Level 2	biom:IrisImageScanCategoryCode			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

17.017Device Unique Identifier

Mnemonic	DUI	Conditionality	O				
		Status	Active				
Description	The DUI shall contain a string uniquely identifying the device or source of the data. This field shall be one of: Host PC MAC address, identified by the first character “M”, or Host PC processor ID, identified by the first character “P”. Note: ANSI/NIST ITL 1-2011 has deleted the options for “Serial number or No serial number” from Field 17.017, since it is available in the Make / Model / Serial Number field.						
Field Min	13	Occur Min	0				
Field Max	16	Occur Max	1				
Char Types	ANS	Special Chars	Any				
Format	n/a	Constraints	first character = M or P				
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)			Cardinality	1...1		
XML Level 2	biom:CaptureDeviceIdentification/nc:IdentificationID			Cardinality	0..1		
XML Level 3				Cardinality			
XML Level 4				Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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17.019

Make/Model/Serial Number

Mnemonic	MMS	Conditionality	O
		Status	Active
Description	The MMS contains the make, model and serial number for the capture device. It shall consist of three information items. Each information item shall be 1 to 50 characters. Unknown information may be indicated with the value "0." Any or all information items may indicate that information is unknown with the value "0".		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.019_1

Make/Model/Serial Number

Make

Mnemonic	MAK	Conditionality	M↑
		Status	Active
Description	The name of the manufacturer for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1..1
XML Level 2	biom_2:CaptureDeviceMakeText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.019_2Make/Model/Serial Number*Model*

Mnemonic	MOD	Conditionality	M↑
		Status	Active
Description	The model number for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_2:CaptureDeviceModelText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.019_3Make/Model/Serial Number*Serial Number*

Mnemonic	SER	Conditionality	M↑
		Status	Active
Description	The serial number for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_2:CaptureDeviceSerialNumberText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.02**Eye Color**

Mnemonic	ECL	Conditionality	0
		Status	Active
Description	This field shall specify the subject's eye color or 'XXX' if it is unknown from the image (as is the case with infra-red images).		
Field Min	3	Occur Min	0
Field Max	3	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	see Lookup Values
Code List	ALPHA EYE COLOR CODE		
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisEyeColorAttributeCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.021**Comment**

Mnemonic	COM	Conditionality	0
		Status	Active
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.		
Field Min	1	Occur Min	0
Field Max	126	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom_2:ImageCommentText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.022Scanned Horizontal Pixel Scale

Mnemonic	SHPS	Conditionality	O
		Status	Active
Description	This ASCII field shall specify the horizontal pixel density used for scanning providing the SLC field contains a "1" or a "2". Otherwise, it indicates the horizontal component of the pixel aspect ratio. This field is used if the transmission pixel scale differs from the original image scale, as listed in Transmitted horizontal pixel scale (THPS).		
Field Min	1	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1..1
XML Level 2	biom:CaptureHorizontalPixelDensityValue	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.023Scanned Vertical Pixel Scale

Mnemonic	SVPS	Conditionality	O
		Status	Active
Description	This ASCII field shall specify the vertical pixel density used for scanning providing the SLC field contains a "1" or a "2". Otherwise, it indicates the vertical component of the pixel aspect ratio. This field is used if the transmission pixel scale differs from the original image scale, as listed in Transmitted vertical pixel scale (TVPS).		
Field Min	1	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1..1
XML Level 2	biom:CaptureVerticalPixelDensityValue	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.024Image Quality Score

Mnemonic	IQS			Conditionality	O		
				Status	Active		
Description	This ASCII field shall specify a quality score data for the iris image stored in this record. Each subfield shall contain three information items. They identify a quality score and the algorithm used to create the quality score. This information is useful to enable the recipient of the quality score to differentiate between quality scores generated by different algorithms and adjust for any differences in processing or analysis as necessary.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1...1	
XML Level 2	biom_2:ImageQuality				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.024Image Quality Score

Mnemonic	IQS_0			Conditionality	M↑		
				Status	New-Active		
Description	This ASCII field shall specify a quality score data for the iris image stored in this record. Each subfield shall contain three information items. They identify a quality score and the algorithm used to create the quality score. This information is useful to enable the recipient of the quality score to differentiate between quality scores generated by different algorithms and adjust for any differences in processing or analysis as necessary.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	9		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1...1	
XML Level 2	biom_2:ImageQuality				Cardinality	0..9	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

17.024_1Image Quality ScoreQuality Value

Mnemonic	QVU	Conditionality	M↑
		Status	Active
Description	This information item shall contain the integer image quality score between 0 and 100 (inclusive) assigned to the image data by a quality algorithm. Higher values indicate better quality. An entry of "255" shall indicate a failed attempt to calculate a quality score. An entry of "254" shall indicate that no attempt to calculate a quality score was made.		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= QVU <= 100 or QVU = 254 or 255, integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom_2:ImageQuality	Cardinality	0..9
XML Level 3	biom_2:QualityAlgorithmProductIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.024_2Image Quality ScoreAlgorithm Vendor Identification

Mnemonic	QAV	Conditionality	M↑
		Status	Active
Description	This information item shall specify the ID of the vendor of the quality algorithm used to calculate the quality score. This 4-digit hex value is assigned by IBIA and expressed as four ASCII characters. The IBIA shall maintain the Vendor Registry of CBEFF Biometric Organizations that will map the value in this field to a registered organization.		
Field Min	4	Occur Min	1
Field Max	4	Occur Max	1
Char Types	H	Special Chars	None
Format	n/a	Constraints	0000 <= QAV <= FFFF
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom_2:ImageQuality	Cardinality	0..9
XML Level 3	biom_2:QualityValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.024_3Image Quality Score*Algorithm Product Identification*

Mnemonic	QAP			Conditionality	M ↑
				Status	Active
Description	This information item shall specify a numeric product code assigned by the vendor of the quality algorithm, which may be registered with the IBIA, but it is not required to be registered. It indicates which of the vendor's algorithms was used in the calculation of the quality score. This field contains the ASCII representation of the integer product code and should be within the range 1 to 65535.				
Field Min	1	Occur Min	1		
Field Max	5	Occur Max	1		
Char Types	N	Special Chars	None		
Format	n/a	Constraints	<= QAP <= 65535, positive integer		
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-17)				
XML Level 1	biom_2:IrisImage			Cardinality	1..1
XML Level 2	biom_2:ImageQuality			Cardinality	0..9
XML Level 3	biom_2:QualityAlgorithmVendorIdentification/nc:IdentificationID			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

17.025Effective Acquisition Spectrum

Mnemonic	EAS			Conditionality	0		
				Status	Active		
Description	This field indicates the acquisition spectrum used in capturing the iris image. The acquisition spectrum is the effective acquisition spectrum, which is limited by both the lighting spectrum and the spectrum limitations of the acquisition device: it is defined by the overlap of the two spectra. This field contains an alphabetic entry selected from the column “Value” in Look Up Code list.						
Field Min	3			Occur Min	0		
Field Max	9			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	see Lookup Values		
Code List	LIGHTING SPECTRUM ACQUISITION CODE						
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisImageAcquisitionLightingSpectrum				Cardinality	0..1	
XML Level 3	biom:AcquisitionLightingSpectrumCode				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.026Iris Diameter

Mnemonic	IRD			Conditionality	0		
				Status	Active		
Description	This field shall specify the expected iris diameter in pixels.						
Field Min	2			Occur Min	0		
Field Max	4			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	10 < IRD < 9999; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisDiameterPixelQuantity				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.027Specified Spectrum Value

Mnemonic	SSV				Conditionality	D	
					Status	Active	
Description	This field shall only be present if Field 17.025: Effective acquisition spectrum (EAS) has a value of 'DEFINED'. It is comprised of two information items:						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars	n/a	
Format	n/a				Constraints		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage					Cardinality	1..1
XML Level 2	biom:IrisImageAcquisitionLightingSpectrum					Cardinality	0..1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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17.027_1

Specified Spectrum Value

Spectrum Lower Bound

Mnemonic	LOW			Conditionality	M↑		
				Status	Active		
Description	It is a three digit entry indicating the lower frequency bound in nm.						
Field Min	3			Occur Min	1		
Field Max	4			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	500 <= LOW, positive integer evenly divisible by 10		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1...1	
XML Level 2	biom:IrisImageAcquisitionLightingSpectrum				Cardinality	0..1	
XML Level 3	biom:AcquisitionLightingSpectrumLowerMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.027_2

Specified Spectrum Value

Spectrum Upper Bound

Mnemonic	HIG			Conditionality	M↑		
				Status	Active		
Description	It is a three digit entry indicating the upper frequency bound in nm.						
Field Min	3			Occur Min	1		
Field Max	4			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	510 <= HIG, positive integer evenly divisible by 10		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisImageAcquisitionLightingSpectrum				Cardinality	0..1	
XML Level 3	biom:AcquisitionLightingSpectrumUpperMeasure				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.028Damaged or Missing Eye

Mnemonic	DME	Conditionality	O
		Status	Active
Description	This optional field shall specify if one or both eyes are unable to provide usable iris images. The eye position is specified in Field 17.003: Eye Label / ELR . This field shall contain a code from Look Up Codes. "UC" should be entered if the eye is physically present, but a usable iris image cannot be captured. An example is when the eye is swollen shut due to injury.		
Field Min	2	Occur Min	0
Field Max	2	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	DME = MA or UC
Code List	MISSING AND DAMAGED EYE CODE		
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisImageMissingReasonCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.03Device Monitoring Mode

Mnemonic	DMM	Conditionality	O
		Status	Active
Description	This field provides information describing the human monitoring operation of the image capture device. This field will contain an entry from [possible codes below] to indicate the monitoring mode of the biometric sample capture device.		
Field Min	7	Occur Min	0
Field Max	10	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	see Lookup Values
Code List	CAPTURE DEVICE MONITORING MODE CODE		
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureDeviceMonitoringModeCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.031

Subject Acquisition Profile - IRIS

Mnemonic	IAP			Conditionality	0
				Status	Active
Description	This optional field lists the IAP level associated with the iris acquisition device. The BPR was developed prior to the 2011 version of the standard. This version of the ANSI/NIST-ITL standard reflects research associated with the IREX study which was performed after the release of the BPR. The storage format specified in the BPR for all profile levels is 'Raw' as specified in ISO/IEC 19794-6 and Record Type-17 of the ANSI/NIST-ITL standard. 'Raw' corresponds to ISF code level 2 and has dimensions 640 x 480. This is the size output by most deployed iris acquisition systems. It is the display resolution for the Video Graphics Array (VGA). The iris diameter requirements of the BPR shall be adhered to if the IAP level is specified in the Type-17 record.				
Field Min	2			Occur Min	0
Field Max	2			Occur Max	1
Char Types	N			Special Chars	None
Format	n/a			Constraints	IAP = 20, 30 or 40
Code List	IRIS SUBJECT ACQUISITION PROFILE CODE				
Source	ANSI/NIST ITL 1-2013 (Type-17)				
XML Level 1	biom_2:IrisImage			Cardinality	1...1
XML Level 2	biom:IrisImageAcquisitionProfileCode			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

17.032

Iris Storage Format

Mnemonic	ISF		Conditionality	0	
			Status	Active	
Description	This mandatory field shall indicate the storage format of the iris image. ISF format code 1 is designated for high resolution outputs. ISF level 2 is the format output in most commerical iris acquisition systems and corresponds to the dimensions of the Video Graphics Array (VGA).				
Field Min	1		Occur Min	0	
Field Max	1		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	ISF = 1, 2, 3 or 7	
Code List	IRIS STORAGE FORM CODE				
Source	ANSI/NIST ITL 1-2013 (Type-17)				
XML Level 1	biom_2:IrisImage			Cardinality	1...1
XML Level 2	biom:IrisImageStorageFormatCode			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

17.033Iris Pupil Boundary

Mnemonic	IPB			Conditionality	O		
				Status	Active		
Description	This optional field defines the pupillary boundary, between the iris and pupil. Some paths in Record Type-17: Iris image record can be a circle or ellipse. A circle only requires 2 points to define it. An ellipse requires 3 points to define it.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisImageIrisPupilBoundary				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.033_1Boundary Code

Mnemonic	BYC			Conditionality	M↑		
				Status	Active		
Description	Defines the shape of a boundary of a feature within an image.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	BYC = C, E or P; see Look Up Codes		
Code List	BOUNDARY DEFINITION CODE						
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisImageIrisPupilBoundary				Cardinality	0..1	
XML Level 3	biom:IrisBoundaryShapeCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.033_2Iris Pupil Boundary*Number of Points*

Mnemonic	NOP			Conditionality	M ↑		
				Status	Active		
Description	Specifies the number of vertices.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	2 <= NOP <= 99; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisImageIrisPupilBoundary				Cardinality	0..1	
XML Level 3	biom:ImageFeatureVertexQuantity				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.033_3Iris Pupil Boundary*Horizontal Point Offset*

Mnemonic	HPO			Conditionality	M↑		
				Status	Active		
Description	The pixel counts to the right. HPO and VPO information items are repeated as pairs, in order by point following the path – for a total of NOP pairs.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= HPO < HLL; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisImageIrisPupilBoundary				Cardinality	0..1	
XML Level 3	biom:ImageFeatureVertex				Cardinality	2..99	
XML Level 4	biom:PositionHorizontalCoordinateValue				Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.033_4Iris Pupil Boundary*Vertical Point Offset*

Mnemonic	VPO	Conditionality	M↑
		Status	Active
Description	The pixel counts down from the origin. HPO and VPO information items are repeated as pairs, in order by point following the path – for a total of NOP pairs.		
Field Min	1	Occur Min	0
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= VPO < VLL, positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisImageIrisPupilBoundary	Cardinality	0..1
XML Level 3	biom:ImageFeatureVertex	Cardinality	2..99
XML Level 4	biom:PositionVerticalCoordinateValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.034Iris Sclera Boundary

Mnemonic	ISB	Conditionality	0
		Status	Active
Description	This optional field defines the limbic boundary, between the iris and sclera.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisImageIrisScleraBoundary	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.034_1Iris Sclera Boundary*Boundary Code*

Mnemonic	BYC			Conditionality	M↑		
				Status	Active		
Description	Defines the shape of a boundary of a feature within an image.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	BYC = C, E or P, see Look Up Codes		
Code List	BOUNDARY DEFINITION CODE						
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisImageIrisScleraBoundary				Cardinality	0..1	
XML Level 3	biom:IrisBoundaryShapeCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.034_2Iris Sclera Boundary*Number of Points*

Mnemonic	NOP			Conditionality	M↑		
				Status	Active		
Description	Specifies the number of vertices.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	2 <= NOP <= 99, positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1...1	
XML Level 2	biom:IrisImageIrisScleraBoundary				Cardinality	0..1	
XML Level 3	biom:ImageFeatureVertexQuantity				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.034_3Iris Sclera Boundary*Horizontal Point Offset*

Mnemonic	HPO	Conditionality	M↑
		Status	Active
Description	The pixel counts to the right. HPO and VPO information items are repeated as pairs, in order by point following the path – for a total of NOP pairs.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= HPO < HLL, positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisImageIrisScleraBoundary	Cardinality	0..1
XML Level 3	biom:ImageFeatureVertex	Cardinality	2..99
XML Level 4	biom:PositionHorizontalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.034_4Iris Sclera Boundary*Vertical Point Offset*

Mnemonic	VPO	Conditionality	M↑
		Status	Active
Description	The pixel counts down from the origin. HPO and VPO information items are repeated as pairs, in order by point following the path – for a total of NOP pairs.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= VPO < VLL, positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisImageIrisScleraBoundary	Cardinality	0..1
XML Level 3	biom:ImageFeatureVertex	Cardinality	2..99
XML Level 4	biom:PositionVerticalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.035Upper Eyelid Boundary

Mnemonic	UEB				Conditionality	0	
					Status	Active	
Description	This optional field defines the boundary between the upper eyelid and the eye.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars	n/a	
Format	n/a				Constraints		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisImageIrisUpperEyelidBoundary				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.035_1Upper Eyelid BoundaryBoundary Code

Mnemonic	BYC			Conditionality	M↑		
				Status	Active		
Description	Defines the shape of a boundary of a feature within an image.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	BYC = P, see Look Up Codes		
Code List	BOUNDARY DEFINITION CODE						
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisImageIrisUpperEyelidBoundary				Cardinality	0..1	
XML Level 3	biom:IrisBoundaryShapeCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.035_2Upper Eyelid Boundary*Number of Points*

Mnemonic	NOP			Conditionality	M↑		
				Status	Active		
Description	Specifies the number of vertices.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	3 <= NOP <= 99, positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisImageIrisUpperEyelidBoundary				Cardinality	0..1	
XML Level 3	biom:ImageFeatureVertexQuantity				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.035_3Upper Eyelid Boundary*Horizontal Point Offset*

Mnemonic	HPO			Conditionality	M↑		
				Status	Active		
Description	The pixel counts to the right. HPO and VPO information items are repeated as pairs, in order by point following the path – for a total of NOP pairs.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= HPO < HLL, positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisImageIrisUpperEyelidBoundary				Cardinality	0..1	
XML Level 3	biom:ImageFeatureVertex				Cardinality	3..99	
XML Level 4	biom:PositionHorizontalCoordinateValue				Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.035_4Upper Eyelid Boundary*Vertical Point Offset*

Mnemonic	VPO	Conditionality	M↑
		Status	Active
Description	The pixel counts down from the origin. HPO and VPO information items are repeated as pairs, in order by point following the path – for a total of NOP pairs.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= VPO < VLL, positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisImageIrisUpperEyelidBoundary	Cardinality	0..1
XML Level 3	biom:ImageFeatureVertex	Cardinality	3..99
XML Level 4	biom:PositionVerticalCoordinateValu	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.036Lower Eyelid Boundary

Mnemonic	LEB	Conditionality	O
		Status	Active
Description	This optional field defines the boundary between the lower eyelid and the eye.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisImageIrisLowerEyelidBoundary	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.036_1Lower Eyelid Boundary*Boundary Code*

Mnemonic	BYC			Conditionality	M↑		
				Status	Active		
Description	Defines the shape of a boundary of a feature within an image.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	BYC = P, see Look Up Codes		
Code List	BOUNDARY DEFINITION CODE						
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisImageIrisLowerEyelidBoundary				Cardinality	0..1	
XML Level 3	biom:IrisBoundaryShapeCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.036_2Lower Eyelid Boundary*Number of Points*

Mnemonic	NOP			Conditionality	M↑		
				Status	Active		
Description	Specifies the number of vertices						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	3 <= NOP <= 99, positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1...1	
XML Level 2	biom:IrisImageIrisLowerEyelidBoundary				Cardinality	0..1	
XML Level 3	biom:ImageFeatureVertexQuantity				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.036_3Lower Eyelid Boundary*Horizontal Point Offset*

Mnemonic	HPO	Conditionality	M↑
		Status	Active
Description	The pixel counts to the right. HPO and VPO information items are repeated as pairs, in order by point following the path – for a total of NOP pairs.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= HPO < HLL, positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisImageIrisLowerEyelidBoundary	Cardinality	0..1
XML Level 3	biom:ImageFeatureVertex	Cardinality	3..99
XML Level 4	biom:PositionHorizontalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.036_4Lower Eyelid Boundary*Vertical Point Offset*

Mnemonic	VPO	Conditionality	M↑
		Status	Active
Description	The pixel counts down from the origin. HPO and VPO information items are repeated as pairs, in order by point following the path – for a total of NOP pairs.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= VPO < VLL, positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisImageIrisLowerEyelidBoundary	Cardinality	0..1
XML Level 3	biom:ImageFeatureVertex	Cardinality	3..99
XML Level 4	biom:PositionVerticalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.037Make/Model/Serial Number*Non-eyelid Occlusions*

Mnemonic	NEO	Conditionality	O
		Status	Active
Description	This optional field defines the outline and contents of any non-eyelid occlusions that partially or totally blocks the image of the iris. It is a contour or a polygon.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisImageOcclusion	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.037_0Make/Model/Serial Number*Subfields: Repeating sets of information items information items*

Mnemonic	NEO_0	Conditionality	M↑
		Status	New-Active
Description	This optional field defines the outline and contents of any non-eyelid occlusions that partially or totally blocks the image of the iris. It is a contour or a polygon.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	*
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisImageOcclusion	Cardinality	0..*
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

17.037_1Non-eyelid Occlusions*Occlusion Opacity*

Mnemonic	OCY			Conditionality	M ↑		
				Status	Active		
Description	The first information item of the Occlusions (OCC) field.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	OCY = T, I, L or S, see Look Up Codes		
Code List	OCCLUSION OPACITY CODE						
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisImageOcclusion				Cardinality	0..*	
XML Level 3	biom:IrisImageOcclusionOpacityCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.037_2Non-eyelid Occlusions*Occlusion Type*

Mnemonic	OCT			Conditionality	M↑		
				Status	Active		
Description	The second information item of the OCCLUSIONS (OCC) field.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	OCT = L, S, C, R or O, see Look Up Codes		
Code List	OCCLUSIONS CODE						
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1..1	
XML Level 2	biom:IrisImageOcclusion				Cardinality	0..*	
XML Level 3	biom:IrisImageOcclusionCategoryCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.037_3Non-eyelid Occlusions*Number of Points*

Mnemonic	NOP			Conditionality	M↑		
				Status	Active		
Description	Specifies the number of vertices.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	3 <= NOP <= 99, positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage			Cardinality	1..1		
XML Level 2	biom:IrisImageOcclusion			Cardinality	0..*		
XML Level 3	biom:ImageFeatureVertexQuantity			Cardinality	1..1		
XML Level 4				Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.037_4Non-eyelid Occlusions*Horizontal Point Offset*

Mnemonic	HPO		Conditionality	M↑	
			Status	Active	
Description	The pixel counts to the right. HPO and VPO information items are repeated as pairs, in order by point following the path – for a total of NOP pairs.				
Field Min	1		Occur Min	1	
Field Max	5		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	0 <= HPO < HLL, positive integer	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-17)				
XML Level 1	biom_2:IrisImage			Cardinality	1..1
XML Level 2	biom:IrisImageOcclusion			Cardinality	0..*
XML Level 3	biom:ImageFeatureVertex			Cardinality	3..99
XML Level 4	biom:PositionHorizontalCoordinateValue			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

17.037_5Non-eyelid OcclusionsVertical Point Offset

Mnemonic	VPO	Conditionality	M↑
		Status	Active
Description	The pixel counts down from the origin. HPO and VPO information items are repeated as pairs, in order by point following the path – for a total of NOP pairs.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= VPO < VLL, positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisImageOcclusion	Cardinality	0..*
XML Level 3	biom:ImageFeatureVertex	Cardinality	3..99
XML Level 4	biom:PositionVerticalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.04Range

Mnemonic	RAN	Conditionality	O
		Status	Active
Description	This optional field contains the estimated distance from the lens of the camera to the iris. It shall be measured in centimeters.		
Field Min	1	Occur Min	0
Field Max	7	Occur Max	1
Char Types	N	Special Chars	n/a
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage	Cardinality	1...1
XML Level 2	biom:IrisImageRangeMeasure	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.041

Frontal Gaze

Mnemonic	GAZ			Conditionality	0		
				Status	Active		
Description	This optional field describes the metric that estimates the degree of eye(s) sight-angle relative to the camera. The angle shall be reported in degrees and defined as between: The optical axis of the eye, and a line connecting the optical center of the eye and the optical center of the camera. This measure is inclusive of both head angular orientation and eye-gaze angle relative to the head. The inclusive approach for gaze direction is not intended to be representative of the possible difficulty with iris segmentation due to non-frontal head orientation. Hence, two images with the same frontal gaze, but significantly different frontal head orientation may perform differently with different segmentation and matching algorithms. Note that iris image recognition systems typically rely upon having a small gaze angle in the image. While not prohibited in this standard, it is strongly discouraged that gaze angles greater than 15 degrees be used for enrollment or matching. While not prohibited in this standard, it is strongly discouraged that gaze angles greater than 15 degrees be used for enrollment or matching.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	0 <= GAZ <= 90, positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage				Cardinality	1...1	
XML Level 2	biom:IrisImageGazeAngleMeasure				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.902

Annotated Information

Mnemonic	ANN			Conditionality	0		
				Status	Active		
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.902_0Annotated Information*Subfields: Repeating sets of information items*

Mnemonic	ANN_0			Conditionality	M↑		
				Status	New-Active		
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

17.902_1Annotated Information*Greenwich Mean Time*

Mnemonic	GMT			Conditionality	M↑		
				Status	Active		
Description	This information item is the Greenwich Mean Time (GMT) when the processing occurred. The data is formatted as YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. This time is independent of the actual time zone where the time and date is recorded.						
Field Min	dependent on encoding			Occur Min	1		
Field Max	dependent on encoding			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom:ProcessUTCDate/nc:DateTime				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.902_2Annotated Information*Processing Algorithm Name / Version*

Mnemonic	NAV			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain text identifying the name and version of the processing algorithm, application, procedure, or workstation						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom:ProcessName				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.902_3Annotated Information*Algorithm Owner*

Mnemonic	OWN			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain an unformatted text string of up to 64 characters with the contact information for the organization that owns the processing algorithm or latent workstation. Where there is no 'algorithm owner,' enter N/A.						
Field Min	1			Occur Min	1		
Field Max	64			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom:ProcessOwnerText				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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17.902_4

Annotated Information

Process Description

Mnemonic	PRO	Conditionality	M↑
		Status	Active
Description	This information item field shall contain text describing a process or procedure applied to the sample in this Type-9 record.		
Field Min	1	Occur Min	1
Field Max	255	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom:ProcessAnnotation	Cardinality	0..*
XML Level 2	biom:ProcessDescriptionText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.993

Source Agency Name

Mnemonic	SAN	Conditionality	O
		Status	Active
Description	This is an optional field. It may contain up to 125 Unicode characters. It is the name of the agency referenced in Field xx.004: Source agency / SRC for record types 9-99.		
Field Min	1	Occur Min	0
Field Max	125	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureOrganization	Cardinality	1..1
XML Level 3	nc:OrganizationName	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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17.995

Associated Context

Mnemonic	ASC			Conditionality	0		
				Status	Active		
Description	This optional field refers to one or more Type 21 Records with the same ACN. Type 21 Records contain images that are NOT used to derive the biometric data in Field 13.999: Latent friction ridge image (DATA) but that may be relevant to the collection of that data, such as general scenes of the area where a latent print was found.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom:AssociatedContext				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.995_0

Associated Context

Subfields: Repeating sets of information items

Mnemonic	ASC_0			Conditionality	M↑		
				Status	New-Active		
Description	This optional field refers to one or more Type 21 Records with the same ACN. Type 21 Records contain images that are NOT used to derive the biometric data in Field 13.999: Latent friction ridge image (DATA) but that may be relevant to the collection of that data, such as general scenes of the area where a latent print was found.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	255		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom:AssociatedContext				Cardinality	0..255	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

17.995_1Associated Context*Associated Context Number*

Mnemonic	ACN			Conditionality	M ↑		
				Status	Active		
Description	The first information item for the Associated Context field for a particular Record Type-21. This is mandatory for each Field xx.995, when the field is used. It contains an index to a particular instance of a Type-21 record in the transaction. This same index value appears in the appropriate instance of Record Type-21 as Field 21.021: Associated context number (CAN). The value of the CAN shall be a sequentially assigned a positive integer starting from one and incremented by one, not to exceed 255.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= ACN <= 255, positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom:AssociatedContext				Cardinality	0..255	
XML Level 2	biom:ContextIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.995_2Associated Context*Associated Segment Position*

Mnemonic	ASP			Conditionality	O↑		
				Status	Active		
Description	The first information item is the associated segment position (ASP). This provides a unique index to a segmentation.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	1 <= ASP <= 99, positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom:AssociatedContext				Cardinality	0..255	
XML Level 2	biom:ImageSegmentIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.996Hash

Mnemonic	HAS			Conditionality	0		
				Status	Active		
Description	Optional field xx.996, is designed for use in Record types 10 and above with a Field xx.999 storing the biometric data. It is comprised of 64 characters representing hexadecimal values. Thus, each character may be a digit from “0” to “9” or a letter “A” through “F”. See the latest version of the Federal Information Processing Standard 180, Secure Hash Standard for information on computing SHA-256 hashes. At the time of this standard’s publication, FIPS 180-37 had been published. It is also possible to use Field xx.996 to contain the hash for data stored externally, which is referenced in Field 20.994: External file reference (EFR) and/or Field 21.994: External file reference (EFR). The ability to store files externally is new to this version of the standard, and is only implemented for the two new record types referred to here. Use of the hash enables the receiver of the data to perform quick searches of large databases to determine if the data already exist in the database. It is not intended as an information assurance check. That is handled by Record Type-98: Information assurance record.						
Field Min	64			Occur Min	0		
Field Max	64			Occur Max	1		
Char Types	H			Special Chars	None		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:ImageHashValue				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.997Source Representation

Mnemonic	SOR			Conditionality	0		
				Status	Active		
Description	This optional field refers to a representation in Record Type-20 with the same SRN from which the data in Field 13.999: Latent friction ridge image (DATA) was derived.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints			
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom:SourceRepresentation				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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17.997_0

Source Representation

Subfields: Repeating sets of information items

Mnemonic	SOR_0	Conditionality	M↑
		Status	New-Active
Description	This optional field refers to a representation in Record Type-20 with the same SRN from which the data in Field 13.999: Latent friction ridge image (DATA) was derived.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	255
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom:SourceRepresentation	Cardinality	0...255
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

17.997_1

Source Representation

Source Representation Number

Mnemonic	SRN	Conditionality	M↑
		Status	Active
Description	This is the first information item and is mandatory for each Field xx.997. It contains an index to a particular instance of a Type-20 record in the transaction. This same index value appears in the appropriate instance of Record Type-20 as Field 20.021: Source representation number (SRN). The value of the SRN shall be a sequentially assigned a positive integer starting from one and incremented by one, not to exceed 255.		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= SRN <= 255, positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom:SourceRepresentation	Cardinality	0...255
XML Level 2	biom:SourceIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.997_2Source Representation*Reference Segment Position*

Mnemonic	RSP			Conditionality	O↑		
				Status	Active		
Description	The first information item is the reference segment position (RSP). This provides a unique index to a segmentation.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= RSP <= 99, positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom:SourceRepresentation				Cardinality	0...255	
XML Level 2	biom:ImageSegmentIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.998Geographic Sample Acquisition Location

Mnemonic	GEO			Conditionality	0		
				Status	Active		
Description	This optional field contains the location where the iris sample/original source/context information was acquired – not where it is stored.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a, BiometricCaptureType		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)				Cardinality	1...1	
XML Level 2	biom:CaptureLocation				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.998_01Geographic Sample Acquisition Location*Universal Time Entry*

Mnemonic	UTE	Conditionality	O↑
		Status	Active
Description	The coordinated universal time (UTC) where the biometric sample was collected. This time is independent of the actual time zone where the time and date is recorded. The date is YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. If sample collection time is unknown, set it to "00000000000000Z."		
Field Min	dependent on encoding	Occur Min	0
Field Max	dependent on encoding	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureUTCDateTime/nc:DateTime	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.998_02Geographic Sample Acquisition Location*Latitude Degree Value*

Mnemonic	LTD	Conditionality	D
		Status	Active
Description	The second information item is latitude degree value (LTD). This is a value that specifies the degree of latitude. The value shall be between -90 (inclusive) and +90 (inclusive). The degrees may be expressed as an integer (without a decimal) or a real number including decimals. If decimals are present, then minutes and seconds shall be empty. Examples: Buenos Aires, Argentina: -34 (with minutes LTM = 36) NIST, Gaithersburg, Maryland: 39.137627 (no LTM or LTS)		
Field Min	1	Occur Min	1
Field Max	9	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	-90 < LTD < 90
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation(0...1)/biom:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0..1
XML Level 3	nc:LatitudeDegreeValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.998_03Geographic Sample Acquisition Location*Latitude Minute Value*

Mnemonic	LTM	Conditionality	D
		Status	Active
Description	This information item is latitude minute value (LTM). This is a value that specifies a minute of a degree. The value shall be between 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall be empty. Thus, the allowed special character is a period. The minute value can be empty, even if the degree value is an integer. LTM and LGM are co-conditional, so they shall both be present if either is present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	0 <= LTM < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation(0...1)/biom:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0..1
XML Level 3	nc:LatitudeMinuteValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.998_04Geographic Sample Acquisition Location*Latitude Second Value*

Mnemonic	LTS	Conditionality	D
		Status	Active
Description	The fourth information item is the latitude second value (LTS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LTS < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation(0...1)/biom:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0..1
XML Level 3	nc:LatitudeSecondValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.998_05Geographic Sample Acquisition Location*Longitude Degree Value*

Mnemonic	LGD	Conditionality	D
		Status	Active
Description	The fifth information item is the longitude degree value (LGD). It is a value that specifies the degree of a longitude. The value shall be between -180 (inclusive) and +180 (inclusive). If LTD is present, then LGD shall be present. The degrees may be expressed as whole numbers (without a decimal) or real numbers including decimals. If decimals are present, then minutes and seconds are empty. Examples: Buenos Aires, Argentina: -58 (with minutes LGM = 22), NIST, Gaithersburg, Maryland: -77.216032 (no LGM or LGS)		
Field Min	1	Occur Min	1
Field Max	10	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	-180 <= LGD <= 180
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation(0...1)/biom:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLongitude (0...1)	Cardinality	0..1
XML Level 3	nc:LongitudeDegreeValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.998_06Geographic Sample Acquisition Location*Longitude Minute Value*

Mnemonic	LGM	Conditionality	D
		Status	Active
Description	The sixth information item is the longitude minute value (LGM). It is a value that specifies a minute of a degree. The value shall be from 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall not appear. The minute value is empty, even if the degree value is an integer. If LTM is present, then LGM shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	1 <= LGM < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation(0...1)/biom:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLongitude (0...1)	Cardinality	0..1
XML Level 3	nc:LongitudeMinuteValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.998_07Geographic Sample Acquisition Location*Longitude Second Value*

Mnemonic	LGS	Conditionality	D
		Status	Active
Description	The seventh information item is the longitude second value (LGS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer. If LTS is present, then LGS shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LGS < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation(0...1)/biom:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLongitude (0...1)	Cardinality	0..1
XML Level 3	nc:LongitudeSecondValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.998_08Geographic Sample Acquisition Location*Elevation*

Mnemonic	ELE	Conditionality	D
		Status	Active
Description	The eighth information item is elevation (ELE). It is expressed in meters. It is a numeric value. It is between -422 meters (Dead Sea) and 8848 meters (Mount Everest). Allowed special characters are the negative sign and the period.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Minus Sign,Period
Format	n/a	Constraints	-422.000 < ELE < 8848.000, real number
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation(0...1)/nc:LocationGeographicElevation (0...1)	Cardinality	0..1
XML Level 3	nc:MeasurePointValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.998_09

Geographic Sample Acquisition Location*Geodetic Datum Code*

Mnemonic	GDC	Conditionality	D
		Status	Active
Description	The ninth information item is the geodetic datum code (GDC11). It is an alphanumeric value of 3 to 6 characters in length. This information item is used to indicate which coordinate system was used to represent the values in information items 2 through 7. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values.		
Field Min	3	Occur Min	0
Field Max	6	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	GEOGRAPHIC COORDINATE DATUM CODE		
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation(0...1)/biom:LocationTwoDimensionalGeographicCoordinate(0...1)	Cardinality	0..1
XML Level 3	biom:GeodeticDatumCoordinateSystemName or biom:GeodeticDatumCoordinateSystemCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.998_10

Geographic Sample Acquisition Location*Geographic Coordinate Universal Transverse Mercator Zone*

Mnemonic	GCM	Conditionality	D
		Status	Active
Description	It is an alphanumeric value of 2 to 3 characters. This is a one or two digit UTM zone number followed by the 8 degree latitudinal band designator (which is a single letter).		
Field Min	2	Occur Min	0
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	One or two integers followed by a single letter. Valid latitudinal band designators include C through X, omitting I and O
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation(0...1)/nc:LocationUTMCoordinate(0...1)	Cardinality	0..1
XML Level 3	nc:UTMGridZoneID	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.998_11Geographic Sample Acquisition Location*Geographic Coordinate Universal Transverse Mercator Easting*

Mnemonic	GCE	Conditionality	D
		Status	Active
Description	The eleventh information item is the geographic coordinate universal transverse Mercator easting (GCE). It is an integer of 1 to 6 digits.		
Field Min	1	Occur Min	1
Field Max	6	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation(0...1)/nc:LocationUTMCoordinate (0...1)	Cardinality	0..1
XML Level 3	nc:UTMEastingValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.998_12Geographic Sample Acquisition Location*Geographic Coordinate Universal Transverse Mercator Northing*

Mnemonic	GCN	Conditionality	D
		Status	Active
Description	The twelfth information item is the geographic coordinate universal transverse Mercator northing (GCN). It is an integer of 1 to 8 digits.		
Field Min	1	Occur Min	1
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation(0...1)/nc:LocationUTMCoordinate (0...1)	Cardinality	0..1
XML Level 3	nc:UTMNorthingValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

17.998_13Geographic Sample Acquisition Location*Geographic Reference Text*

Mnemonic	GRT	Conditionality	O
		Status	Active
Description	It is a free form text describing a street address or other physical location (such as 'Corner of Washington and Madison, Geneva, NY').		
Field Min	1	Occur Min	0
Field Max	150	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation(0...1)	Cardinality	0..1
XML Level 3	nc:LocationDescriptionText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.998_14Geographic Sample Acquisition Location*Geographic Coordinate Other System Identifier*

Mnemonic	OSI	Conditionality	O
		Status	Active
Description	A fourteenth optional information item geographic coordinate other system identifier (OSI) allows for other coordinate systems. This information items specifies the system identifier. It is up to 10 characters in length. Examples are: • MGRS (Military Grid Reference System), • USNG (United States National Grid), • GARS (Global Area Reference System), • GEOREF (World Geographic Reference), • LANDMARK landmark (e.g. hydant) and position relative to the landmark.		
Field Min	1	Occur Min	1
Field Max	10	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom:CaptureLocation(0...1)/biom:LocationAlternateGeographicSystemValue (0...1)	Cardinality	0..1
XML Level 3	biom:GeographicLocationSystemName	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

17.998_15Geographic Sample Acquisition Location*Geographic Coordinate Other System Value*

Mnemonic	OCV		Conditionality	D	
			Status	Active	
Description	A fifteenth optional information item, is the geographic coordinate other system value (OCV). It shall only be present if OSI is present in the record. It can be up to 126 characters in length. If OSI is LANDMARK, OCV is free text and may be up to 126 characters. For details on the formatting of OCV for the other coordinate systems shown in OSI as examples, see http://earth-info.nga.mil/GandG/coordsys/grids/referencesys.html .				
Field Min	1	Occur Min	1		
Field Max	126	Occur Max	1		
Char Types	U	Special Chars	Any		
Format	n/a	Constraints			
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-17)				
XML Level 1	biom_2:IrisImage(1...1)/biom_2:ImageCaptureDetail(1...1)		Cardinality	1...1	
XML Level 2	biom:CaptureLocation(0...1)/biom:LocationAlternateGeographicSystemValue (0...1)		Cardinality	0..1	
XML Level 3	biom:GeographicLocationText		Cardinality	1..1	
XML Level 4			Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

17.999Iris Image Data

Mnemonic	DATA				Conditionality	D	
					Status	Active	
Description	This mandatory field contains the iris image. See Section 7.2 of ANSI/NIST ITL 1-2011 for details.						
Field Min	1				Occur Min	0	
Field Max	Unlimited				Occur Max	1	
Char Types	B				Special Chars	None	
Format	n/a				Constraints		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-17)						
XML Level 1	biom_2:IrisImage					Cardinality	1...1
XML Level 2	nc:Base64BinaryObject					Cardinality	0..1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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n/a

Capture Time

Mnemonic					Conditionality	n/a			
					Status	Retired			
Description	This ASCII field shall contain the time in UTC that the biometric sample or contextual information contained in the record was captured. The time shall appear as 6 digits format HHMMSS with 'Z' being the zone designator for the zero UTC offset. The complete time must be a legitimate time.								
Field Min	n/a				Occur Min	n/a			
Field Max	n/a				Occur Max	n/a			
Char Types	AN				Special Chars	None			
Format	n/a				Constraints	n/a			
Code List									
Source	ANSI/NIST ITL 1-2013 (Type-17)								
XML Level 1						Cardinality			
XML Level 2						Cardinality			
XML Level 3						Cardinality			
XML Level 4						Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	No		

n/a

Digitization Time

Mnemonic		Conditionality		n/a							
		Status		Retired							
Description											
Field Min		n/a		Occur Min		n/a					
Field Max		n/a		Occur Max		n/a					
Char Types		AN		Special Chars		None					
Format		n/a		Constraints		n/a					
Code List											
Source		ANSI/NIST ITL 1-2013 (Type-17)									
XML Level 1				Cardinality							
XML Level 2				Cardinality							
XML Level 3				Cardinality							
XML Level 4				Cardinality							
DoD EBTS 1.2		No	DoD EBTS 2.0		No	DoD EBTS 3.0		No	DoD EBTS 4.0		No

17.018Global Unique Identifier

Mnemonic	GUI	Conditionality	n/a
		Status	Retired
Description	This optional field shall contain a 16-byte string to indicate a GUID – a globally unique identifier.		
Field Min	n/a	Occur Min	n/a
Field Max	n/a	Occur Max	n/a
Char Types	AN	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-17)		
XML Level 1		Cardinality	
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	DoD EBTS 2.0	Yes	DoD EBTS 3.0
		No	DoD EBTS 4.0
		No	No

18.001Record Header

Mnemonic	LEN	Conditionality	M
		Status	Active
Description	The record header appears as the first field (xx.001) in each Record Type. It contains information particular to the encoding format chosen, in order to enable proper reading of the record. In Traditional encoding, this field contains the record length in bytes (including all information separators). In NIEM-conformant XML encoding, this field contains the RecordCategoryCode, which is the numeric representation of the Record Type.		
Field Min	T = 4; X = 1	Occur Min	1
Field Max	T = 8; X = 2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	nist-itl:RecordCategoryCode	Cardinality	1...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.002Information Designation Character

Mnemonic	IDC	Conditionality	M
		Status	Active
Description	Each of the records present in a transaction, with the exception of the Type-1 record, shall include a field (xx.002) containing the information designation character / IDC. The value of the IDC shall be a sequentially assigned positive integer starting from zero and incremented by one up to a maximum of 99. IDC references are stated in Type-1 Field 1.003 Transaction content (CNT) and shall be used to relate information items in the CNT field of the Type-1 record to the other records in the transaction. Two or more records may share a single IDC solely to identify and link together records that pertain to different representations of the same biometric trait.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= IDC <= 99; integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	nist-itl:ImageReferenceIdentification/nc:IdentificationID		Cardinality1...1
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
			DoD EBTS 4.0
			Yes

18.003DNA Laboratory Setting

Mnemonic	DLS			Conditionality	M		
				Status	Active		
Description	This field is mandatory. The first information item is mandatory. The remaining information items are optional for all unit types.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample (1...1)/biom:DNALaboratory (1...1)				Cardinality	1..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.003_1DNA Laboratory Setting*Unit Type*

Mnemonic	UTY			Conditionality	M		
				Status	Active		
Description	The first information item unit type / UTY is mandatory and contains a numeric value.						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= UTY <= 4; integer		
Code List	DNA LABORATORY SETTING UNIT TYPE CODE						
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample (1...1)/biom:DNALaboratory (1...1)				Cardinality	1..1	
XML Level 2	biom:DNALaboratoryUnitCategoryCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.003_2DNA Laboratory Setting*Lab Type*

Mnemonic	LTY			Conditionality	D			
				Status	Active			
Description	The second information item is the lab type / LTY. It is mandatory if the value for UTY is 1 or 2. It is not entered otherwise. When present, this information item contains a single character describing the laboratory that processed the DNA.							
Field Min	1			Occur Min	0			
Field Max	1			Occur Max	1			
Char Types	A			Special Chars	None			
Format	n/a			Constraints	LTY = G, I, O or U			
Code List	DNA LABORATORY SETTING LAB TYPE CODE							
Source	ANSI/NIST ITL 1-2011 (Type-18)							
XML Level 1	biom:DNASample (1...1)/biom:DNALaboratory (1...1)					Cardinality	1..1	
XML Level 2	biom:DNALaboratoryCategoryCode					Cardinality	0..1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes	

18.003_3DNA Laboratory Setting*Accreditation Information*

Mnemonic	ACC	Conditionality	D
		Status	Active
Description	The third information item is the accreditation information / ACC. It is mandatory if the value for UTY is 1 or 2. It shall not be entered otherwise. When present, this information item shall contain a minimum of one numeric character if the value is 0 or a minimum of two characters (one numeric followed immediately by one alpha character if the lab is accredited). If the laboratory has an unknown accreditation status, three numeric characters '255' are entered. The values in this information item shall be separated individually by commas between accreditation and scope pairings. More than one accreditation and scope of accreditation is permitted.		
Field Min	1	Occur Min	0
Field Max	35	Occur Max	4
Char Types	ANS	Special Chars	Comma
Format	n/a	Constraints	Numeric (0,1,2,3,4,5,6 or 255). It may be followed by an alpha string (N, M, D and/or O). That may be followed by up to 5 more such strings, each separated by a comma. The entire string is treated as a single information item.
Code List	DNA LABORATORY SETTING ACCREDITATION STATUS CODE and DNA LABORATORY ACCREDITATION SCOPE CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNALaboratory (1...1)	Cardinality	1..1
XML Level 2	biom:DNALaboratoryAccreditation	Cardinality	0..6
XML Level 3	biom:DNALaboratoryAccreditationLevelCode	Cardinality	1...1
XML Level 4	biom:DNALaboratoryAccreditationLevelCode (1...1)/biom:DNALaboratoryAccreditationScopeCode (0...4)	Cardinality	0...4
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.003_4DNA Laboratory Setting*Name of the Organization*

Mnemonic	NOO	Conditionality	O
		Status	Active
Description	The fourth information item is the name of the organization / NOO that originally processed the DNA data. This may be different from the entry in Field 18.004: Source Agency / SRC. This is an optional information item. It is entered in Unicode characters This is an optional information item that may be up to 100 alphanumeric characters in length.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNALaboratory (1...1)	Cardinality	1..1
XML Level 2	nc:OrganizationName	Cardinality	0..1
XML Level 3	nc:OrganizationPrimaryContactInformation	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.003_5DNA Laboratory Setting*Point of Contact*

Mnemonic	POC			Conditionality	O		
				Status	Active		
Description	This information item is the point of contact / POC who composed the DNA record metadata. This is an optional information item that could include the name, telephone number and e-mail address of the person responsible for this record submission. This information item may be up to 200 Unicode characters.						
Field Min	1			Occur Min	0		
Field Max	200			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample (1...1)/biom:DNALaboratory (1...1)				Cardinality	1..1	
XML Level 2	nc:OrganizationPrimaryContactInformation				Cardinality	0..1	
XML Level 3	nc:ContactInformationDescriptionText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.003_6DNA Laboratory Setting*Code of Sending Country*

Mnemonic	CSC			Conditionality	O		
				Status	Active		
Description	The sixth information item is optional. It is the ISO-3166-1 code of the sending country / CSC. This is the code of where the DNA was processed, not necessarily the nation of the agency entered in Field 18.004: Source agency / SRC. All three formats specified in ISO-3166-1 are allowed (Alpha2, Alpha3 and Numeric). A country code is either 2 or 3 characters long. CSC defaults to ISO-3166-1 coding. If GENC used, then the version of that alternate code is entered in Field 1.018, which applies to ALL country codes in all records within the transaction. The DoD EBTS 4.0 default for this field is the GENC three character alpha codelist (genc:CountryAlpha3CodeType).						
Field Min	2			Occur Min	0		
Field Max	4			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	n/a			Constraints	Value from GENC Country Codes, genc:CountryAlpha3CodeType		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample (1...1)/biom:DNALaboratory (1...1)				Cardinality	1..1	
XML Level 2	biom:DNALaboratoryProcessingCountryGENCAlpha3Code				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.003_7DNA Laboratory Setting*International Organization Name*

Mnemonic	ION	Conditionality	O
		Status	Active
Description	The seventh information item is optional. It is the international organization name / ION of the submitting organization. This is completed if the DNA was processed by an organization that is not affiliated with a country (such as a multinational organization). This optional information item is the name/acronym of an organization, and may be up to 100 Unicode characters.		
Field Min	1	Occur Min	0
Field Max	100	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNALaboratory (1...1)	Cardinality	1..1
XML Level 2	biom:DNALaboratoryInternationalOrganizationName	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.004Source Agency

Mnemonic	SRC	Conditionality	M
		Status	Active
Description	This is the identifier of the agency that actually created the record and supplied the information contained in it.		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:BiometricCaptureDetail (1...1)/biom:CaptureOrganization (1...1)	Cardinality	1..1
XML Level 2	nc:OrganizationIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.005Number of Analysis Flag

Mnemonic	NAL				Conditionality	M	
					Status	Active	
Description	This mandatory field indicates whether the DNA record contains multiple or single data analyses.						
Field Min	1				Occur Min	1	
Field Max	1				Occur Max	1	
Char Types	N				Special Chars	None	
Format	n/a				Constraints	NAL = 0 or 1	
Code List	DNA LABORATORY NUMBER OF ANALYSES CODES						
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample					Cardinality	1..1
XML Level 2	biom:DNAAnalysisQuantityCode					Cardinality	1..1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.006Sample Donor Information

Mnemonic	SDI		Conditionality	M	
			Status	Active	
Description	This field is mandatory. It indicates if the DNA information contained in the record is from the subject of the transaction or from another person (the subject of the record), that is being sent to assist in establishing or verifying the identity of the subject of the transaction. Each subject of a record may have a distinct Type-2 record contained in the transaction. If that is the case, it is highly recommended that Field 18.992: Type-2 Record cross reference / T2C be used to link the Type-18 record to the appropriate Type-2 record. Note that multiple Type-18 records may be included in a single transaction; only one record may have a value of 0 for the first information item.				
Field Min	n/a		Occur Min	1	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-18)				
XML Level 1	biom:DNASample			Cardinality	1..1
XML Level 2	biom:DNADonor			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

18.006_1Sample Donor Information*DNA Sample Donor*

Mnemonic	DSD	Conditionality	M
		Status	Active
Description	The allowed numeric values for the first mandatory information item DNA sample donor / DSD.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	DSD = 0, 1 or 2
Code List	DNA SAMPLE DONOR CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNADonor	Cardinality	1..1
XML Level 3	biom:DNADonorCategoryCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.006_2Sample Donor Information*Gender ID*

Mnemonic	GID	Conditionality	0
		Status	Active
Description	The second information item is the gender ID / GID. This is an optional single character identifier of "M" or "F" or "U". "U" indicates unknown. GID may be set based on self-assignment by the specimen donor. The GID may not match the results from the Amelogenin or for other valid cases.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	GID = M, F or U
Code List	DNA SAMPLE DONOR GENDER		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNADonor	Cardinality	1..1
XML Level 3	nc:PersonSexCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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18.006_3

Sample Donor Information

Date of Last Contact

Mnemonic	DLC	Conditionality	O
		Status	Active
Description	The third information item, date of last contact / DLC is an optional date field. The local date is recorded as YYYYMMDD. Note that this may be a different date than the corresponding GMT, due to time zone differences.		
Field Min	8	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	YYYYMMDD	Constraints	YYYYMMDD format
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNADonor	Cardinality	1..1
XML Level 3	biom:DNADonorLastContactDate/nc:Date	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.006_4

Sample Donor Information

Donor Date of Birth

Mnemonic	DOB	Conditionality	O
		Status	Active
Description	The fourth information item, date of birth / DOB, is an optional date field. The local date is recorded as YYYYMMDD. Note that this may be a different date than the corresponding GMT, due to time zone differences.		
Field Min	8	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	YYYYMMDD	Constraints	YYYYMMDD format
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNADonor	Cardinality	1..1
XML Level 3	nc:PersonBirthDate/nc:Date	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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18.006_5

Sample Donor Information

Ethnic Group

Mnemonic	EGP	Conditionality	O
		Status	Active
Description	The fifth information item is the ethnic group / EGP. It is an optional string of 50 Unicode characters used to describe the ethnic group to which the subject belongs.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNADonor	Cardinality	1..1
XML Level 3	nc:PersonEthnicityText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.006_6

Sample Donor Information

Dental Records Available

Mnemonic	DRA	Conditionality	D
		Status	Active
Description	The sixth information item is optional and indicates if dental records are available for the subject (dental records available / DRA). This information item shall be entered only if DSD = 0.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	DRA = 0, 1 or 2 integer
Code List	DENTAL RECORD AVAILABLE INDICATION CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNADonor	Cardinality	1..1
XML Level 3	biom:DNADonorDentalRecordsAvailableCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.006_7Sample Donor Information*Sample Collection Location Description*

Mnemonic	LLC	Conditionality	O
		Status	Active
Description	The seventh optional information item is the sample collection location description / LLC. It is an optional string of up to 4000 Unicode characters.		
Field Min	1	Occur Min	0
Field Max	4000	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNADonor	Cardinality	1..1
XML Level 3	biom:DNADonorCollectionLocationDescriptionText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.006_8Sample Donor Information*Sample Donor Status*

Mnemonic	SDS	Conditionality	O
		Status	Active
Description	The eighth optional information item is the sample donor status / SDS. This information item will include whether or not the sample donor is deceased, missing or unknown. Normally, this item would only be used for the sample associated with the subject of the transaction (SDI = 0), but it could be possible to use it in other cases, such as a hair sample from a deceased relative. It could also be 'unknown' for the purported relative's status, but DNA samples were available for that individual (such as blood sample previously collected).		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	SDS = 0, 1 or 2 integer
Code List	DNA SAMPLE DONOR STATUS CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNADonor	Cardinality	1..1
XML Level 3	biom:DNADonorStatusCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.007Claimed Or Purported Relationship

Mnemonic	COPR	Conditionality	D
		Status	Active
Description	This field is mandatory if the value for [DNA Sample Donor / DSD] is equal to 1 [Claimed, purported or validated relative].		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	1 <= COPR <= 7; positive integer
Code List	RELATIONSHIP CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAClaimedRelationshipCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.008Validated Relationship

Mnemonic	VRS	Conditionality	D
		Status	Active
Description	This field is optional and is a numeric value. This information item is completed based upon a comparison of the subject's DNA with the DNA of the person with whom the relationship is claimed or purported. It is only filled in if DSD = 1. This information item is completed based upon a comparison of the subject's DNA with the DNA of the person with whom the relationship is claimed or purported. It is only filled in if [Donor Status Description] DSD = 1 [Claimed or Purported Relationship].		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= VRS <= 7; positive integer
Code List	RELATIONSHIP CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAValidatedRelationshipCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.009Pedigree Information

Mnemonic	PED	Conditionality	0
		Status	Active
Description	This optional field contains information and structure associated with the pedigree.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAPedigree	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.009_1Pedigree InformationPedigree ID

Mnemonic	PID	Conditionality	M↑
		Status	Active
Description	The first information item is the pedigree ID / PID. It is a character string of up to 24 Unicode characters. It is mandatory if this field is used and it indicates the identity of the pedigree determined and held at the laboratory that originates the pedigree.		
Field Min	1	Occur Min	1
Field Max	24	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAPedigree	Cardinality	0..1
XML Level 3	biom:DNAPedigreeIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.009_2Pedigree Information*Pedigree Member ID*

Mnemonic	PMI	Conditionality	M↑
		Status	Active
Description	The second information item is the pedigree member ID / PMI. It is a unique reference within the pedigree. It is mandatory if this field is used. This information item refers to the subject of the transaction. It is a character string of up to 6 Unicode characters. This information item shall also provide the ability to link pedigree information.		
Field Min	1	Occur Min	1
Field Max	6	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAPedigree	Cardinality	0..1
XML Level 3	biom:DNAPedigreeMemberIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.009_3Pedigree Information*Pedigree Member Status*

Mnemonic	PMS	Conditionality	M↑
		Status	Active
Description	The third information item is the pedigree member status / PMS. It is mandatory if this field is used. It is a single character.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	PMS = K or U
Code List	PEDIGREE MEMBER STATUS CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAPedigree	Cardinality	0..1
XML Level 3	biom:DNAPedigreeMemberStatusCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.009_4Pedigree Information*Sample Identifier*

Mnemonic	SID	Conditionality	M↑
		Status	Active
Description	The fourth information item is the DNA sample identifier / SID for the transaction. It is not an identifier within the pedigree chain, unlike the following two identifiers or the PID. It is a character string of 24 characters or less. This information item relates the sample in this record to the pedigree.		
Field Min	1	Occur Min	1
Field Max	24	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAPedigree	Cardinality	0..1
XML Level 3	biom:DNAPedigreeSampleIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.009_5Pedigree Information*Father Identifier*

Mnemonic	FID	Conditionality	O↑
		Status	Active
Description	The fifth information item is the father identifier / FID. It is optional and is a numeric value of 3 digits or less that is unique within the pedigree. This information item is the father identified as related to the sample indicated in the PMI item.		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAPedigree	Cardinality	0..1
XML Level 3	biom:DNAPedigreeFatherIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.009_6Pedigree Information*Mother Identifier*

Mnemonic	MID	Conditionality	O↑
		Status	Active
Description	The sixth information item is the mother identifier / MID. It is optional and is a numeric value of 3 digits or less that is unique within the pedigree. This information item is the mother identified as related to the sample indicated in the PMI item.		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAPedigree	Cardinality	0..1
XML Level 3	biom:DNAPedigreeMotherIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.009_7Pedigree Information*Pedigree Comment*

Mnemonic	PCM	Conditionality	O↑
		Status	Active
Description	The seventh optional information item is the pedigree comment / PCM. It is up to 2000 Unicode characters.		
Field Min	1	Occur Min	0
Field Max	2000	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAPedigree	Cardinality	0..1
XML Level 3	biom:DNAPedigreeCommentText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.01Sample Type

Mnemonic	STY	Conditionality	M
		Status	Active
Description	This mandatory field contains two information items. The first represents the origination cell type from where the sample was collected (sample cellular type / SCT). The second information item is the sample origin / SMO. It is an optional item of a string of 2 characters describing where the sample was obtained.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNASampleOrigin	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.010_1Sample TypeSample Cellular Type

Mnemonic	SCT	Conditionality	M
		Status	Active
Description	This information item represents the origination cell type from where the sample was collected (sample cellular type / SCT). It is mandatory.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= STY <= 11; positive integer
Code List	DNA SAMPLE CELLULAR CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNASampleOrigin	Cardinality	1..1
XML Level 3	biom:DNACellularCategoryCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.010_2Sample TypeSample Origin

Mnemonic	SMO	Conditionality	O
		Status	Active
Description	The second information item is the sample origin / SMO. It is an optional item of a string of 2 characters describing where the sample was obtained.		
Field Min	2	Occur Min	0
Field Max	2	Occur Max	1
Char Types	A	Special Chars	None
Format	n/a	Constraints	SMO = NS, WB or BP
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNASampleOrigin	Cardinality	1..1
XML Level 3	biom:DNASampleOriginCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.011Sample Typing Information

Mnemonic	STI	Conditionality	M
		Status	Active
Description	This mandatory field represents the technology utilized to type the DNA sample. A repeating subfield with the following information item shall comprise this field.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	n/a
Code List	DNA SAMPLE TYPING AVAILABILITY CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNATypingTechnologyCategoryCode	Cardinality	0..
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.011_0Sample Typing Information

Mnemonic	STI_0	Conditionality	M
		Status	Active
Description	This mandatory field represents the technology utilized to type the DNA sample. A repeating subfield with the following information item shall comprise this field.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	5
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= STI <= 4; non-negative integer
Code List	DNA SAMPLE TYPING AVAILABILITY CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNATypingTechnologyCategoryCode	Cardinality	0..
XML Level 3	biom:DNATypingTechnologyCategoryCode	Cardinality	1..5
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.012Sample Collection Method

Mnemonic	SCM	Conditionality	O
		Status	Active
Description	This field contains a description of the method used to collect the DNA sample. It is a character string up to 255 characters.		
Field Min	1	Occur Min	0
Field Max	255	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNATypingTechnologyCategoryCode	Cardinality	0..
XML Level 3	biom:DNASampleCollectionMethodText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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18.013

Sample Collection Date

Mnemonic	SCD	Conditionality	M
		Status	Active
Description	This mandatory field contains the date and time that the sample was collected.		
Field Min	15	Occur Min	1
Field Max	15	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	Description points to 7.7.2.2 YYYYMMDDhhmmssZ, where the Z is indicates the zone description of 0 hours format. Consider naming as "Sample Collection DateTime"
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/BiometricCaptureDetail	Cardinality	1..1
XML Level 2	biom_2:CaptureDate/nc:Date	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.014

Profile Storage Date

Mnemonic	PSD	Conditionality	M
		Status	Active
Description	This mandatory field contains date and time the sample was collected.		
Field Min	15	Occur Min	1
Field Max	15	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	Description points to 7.7.2.2 YYYYMMDDhhmmssZ, where the Z is indicates the zone description of 0 hours format. Consider naming as "PROFILE STORAGE DATETIME".
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAProfileStorageDate/nc:Date	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.015DNA Profile Data

Mnemonic	DPD				Conditionality	M	
					Status	Active	
Description	This is a mandatory field. It contains information and structure associated with the DNA profile data.						
Field Min	n/a				Occur Min	1	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars	n/a	
Format	n/a				Constraints	n/a	
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)					Cardinality	1..1
XML Level 2	biom:DNAProfile					Cardinality	1..1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.015_1DNA Profile Data*Profile Type*

Mnemonic	PTP		Conditionality	M	
			Status	Active	
Description	The first information item is mandatory. It is the profile type / PTP. It is a numerical value. Allowable values are 0 = Person or 1 = Stain.				
Field Min	1		Occur Min	1	
Field Max	1		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	PTP = 0 or 1 integer	
Code List	DNA PROFILE TYPE				
Source	ANSI/NIST ITL 1-2011 (Type-18)				
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)			Cardinality	1..1
XML Level 2	biom:DNAProfile			Cardinality	1..1
XML Level 3	biom:DNAProfileCategoryCode			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

18.015_2DNA Profile Data*Result*

Mnemonic	RES	Conditionality	O
		Status	Active
Description	The second information item is optional and is the result / RES. It is entered with a numeric value selected from Table 78 [DNA Result Codes].		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= RES <= 10 integer
Code List	DNA PROFILE RESULT CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)	Cardinality	1..1
XML Level 2	biom:DNAProfile	Cardinality	1..1
XML Level 3	biom:DNAProfileResultCode	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.015_3DNA Profile Data*Profile ID*

Mnemonic	PRF	Conditionality	M
		Status	Active
Description	The third information item is mandatory and is the profile ID / PRF. It is a character string with a unique party identification. This information item is used to uniquely identify the profile or sample for which the transaction is based. It is a maximum of 64 alphanumeric characters.		
Field Min	1	Occur Min	1
Field Max	64	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)	Cardinality	1..1
XML Level 2	biom:DNAProfile	Cardinality	1..1
XML Level 3	biom:DNAProfileIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.015_4DNA Profile Data*Supplemental Message*

Mnemonic	SUP	Conditionality	O
		Status	Active
Description	The optional fourth information item is a supplemental message / SUP. This information item states if this transaction is a supplemental message to a previous transmission. It is an alphanumeric string containing up to 100 characters.		
Field Min	1	Occur Min	0
Field Max	100	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)	Cardinality	1..1
XML Level 2	biom:DNAProfile	Cardinality	1..1
XML Level 3	biom:DNAProfileSupplementalText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.015_5DNA Profile Data*DNA Profile Comment*

Mnemonic	DPC	Conditionality	O
		Status	Active
Description	The optional fifth information item is a DNA profile comment / DPC. It is up to 100 Unicode characters.		
Field Min	1	Occur Min	0
Field Max	100	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)	Cardinality	1..1
XML Level 2	biom:DNAProfile	Cardinality	1..1
XML Level 3	biom:DNAProfileCommentText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.016Autosomal STR, X-STR and Y-STR Profile

Mnemonic	STR	Conditionality	D
		Status	Active
Description	This optional field may be comprised of as many subfields as there are combinations of data type and locus type reported. This field is only present if Field 18.011: Sample typing Information / STI has a subfield with the value 0.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)	Cardinality	1..1
XML Level 2	biom:DNASTRProfile	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.016_0Autosomal STR, X-STR and Y-STR Profile

Mnemonic	STR_0	Conditionality	M↑
		Status	Active
Description	This field may be comprised of as many subfields as there are combinations of data type and locus type reported. This field is only present if Field 18.011: Sample typing Information / STI has a subfield with the value 0.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	*
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)	Cardinality	1..1
XML Level 2	biom:DNASTRProfile	Cardinality	0..*
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.016_1Autosomal STR, X-STR and Y-STR ProfileDNA STR Type

Mnemonic	DST	Conditionality	M↑
		Status	Active
Description	The first information item is mandatory. It is the DNA STR type / DST.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	DST = 0, 1 or 2 integer
Code List	DNA STR TYPE CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)	Cardinality	1..1
XML Level 2	biom:DNASTRProfile	Cardinality	0..*
XML Level 3	biom:DNASTRProfileCategoryCode	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.016_2Autosomal STR, X-STR and Y-STR ProfileDNA Locus Reference

Mnemonic	DLR	Conditionality	M↑
		Status	Active
Description	The second information item is mandatory. It is the DNA locus reference / DLR. The current valid loci for Autosomal, Y and X-STRs are maintained by NIST and are available at http://www.nist.gov/itl/iad/ig/ansi_standard.cfm . This information item is an integer entry with up to 3 characters per locus.		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= DLR <= 200; positive integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)	Cardinality	1..1
XML Level 2	biom:DNASTRProfile	Cardinality	0..*
XML Level 3	biom:DNALocusIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.016_3Autosomal STR, X-STR and Y-STR Profile*Allele Indicator*

Mnemonic	ALL	Conditionality	M↑
		Status	Active
Description	The third information item, allele indicator / ALL, is mandatory. It is a numeric entry containing a zero if no allele is found. Otherwise it is filled with a 1.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	ALL = 0 or 1 integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)	Cardinality	1..1
XML Level 2	biom:DNASTRProfile	Cardinality	0..*
XML Level 3	biom:DNAAlleleIndicator	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.016_4Autosomal STR, X-STR and Y-STR Profile*Locus Analysis Indicator*

Mnemonic	LAI	Conditionality	M↑
		Status	Active
Description	The fourth information item is mandatory. It is the locus analysis indicator / LAI. It is a numeric entry, containing a zero if not analyzed. Otherwise it contains a 1.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	LAI = 0 or 1 integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)	Cardinality	1..1
XML Level 2	biom:DNASTRProfile	Cardinality	0..*
XML Level 3	biom:DNALocusAnalysisIndicator	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.016_5Autosomal STR, X-STR and Y-STR Profile*Precise Call Determination*

Mnemonic	PCDT			Conditionality	M↑
				Status	Active
Description	The fifth information item is mandatory. It is the precise call determination / PCDT. It is a numeric entry containing a zero if the precise call cannot be determined, due to an uncertainty in the call. Otherwise it contains a 1.				
Field Min	1			Occur Min	1
Field Max	1			Occur Max	1
Char Types	N			Special Chars	None
Format	n/a			Constraints	PCDT = 0 or 1 integer
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-18)				
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)			Cardinality	1..1
XML Level 2	biom:DNASTRProfile			Cardinality	0..*
XML Level 3	biom:DNAPreciseCallIndicator			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

18.016_6Autosomal STR, X-STR and Y-STR Profile*Allele Call 1*

Mnemonic	AL1		Conditionality	D	
			Status	Active	
Description	The sixth information item is conditional upon the value of ALL being 1. It is the allele call 1 / AL1. This is the allele call for the locus reference DLR.				
Field Min	1		Occur Min	0	
Field Max	4		Occur Max	1	
Char Types	NS		Special Chars	Period	
Format	n/a		Constraints	integer > 0; or real number with one digit to right of decimal	
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-18)				
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)			Cardinality	1..1
XML Level 2	biom:DNASTRProfile			Cardinality	0..*
XML Level 3	biom:DNAAlleleCall1Text			Cardinality	0..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

18.016_7Autosomal STR, X-STR and Y-STR Profile*Allele Call 2*

Mnemonic	AL2	Conditionality	D
		Status	Active
Description	The eighth information item is optional but shall not appear unless ALL = 1. It is the allele call 2 / AL2. This is the allele call for the locus reference DLR. This is not used for mixtures, but is for the rare case of a tri-allele. The information item allele call 3 / AL3 shall only appear if information items AL1 and AL2 are present.		
Field Min	1	Occur Min	0
Field Max	4	Occur Max	1
Char Types	NS	Special Chars	Period
Format	n/a	Constraints	integer > 0; or real number with one digit to right of decimal
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)	Cardinality	1..1
XML Level 2	biom:DNASTRProfile	Cardinality	0..*
XML Level 3	biom:DNAAlleleCall2Text	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.016_8Autosomal STR, X-STR and Y-STR Profile*Allele Call 3*

Mnemonic	AL3	Conditionality	D
		Status	Active
Description	The eighth information item is optional but shall not appear unless ALL = 1. It is the allele call 3 / AL3. This is the allele call for the locus reference DLR. This is not used for mixtures, but is for the rare case of a tri-allele. The information item allele call 3 / AL3 shall only appear if information items AL1 and AL2 are present.		
Field Min	1	Occur Min	0
Field Max	4	Occur Max	1
Char Types	NS	Special Chars	Period
Format	n/a	Constraints	integer > 0; or real number with one digit to right of decimal
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)	Cardinality	1..1
XML Level 2	biom:DNASTRProfile	Cardinality	0..*
XML Level 3	biom:DNAAlleleCall3Text	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.016_9Autosomal STR, X-STR and Y-STR Profile*Batch ID*

Mnemonic	BID	Conditionality	O↑
		Status	Active
Description	The ninth information item is the batch ID / BID. This optional information item shall contain an identifier for the batch to which a locus belongs. This may be referred to as the gel or plate identifier. A specimen may have loci from multiple batches. The BID shall be up to 32 Unicode characters.		
Field Min	1	Occur Min	0
Field Max	32	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)	Cardinality	1..1
XML Level 2	biom:DNASTRProfile	Cardinality	0..*
XML Level 3	biom:DNABatchIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.016_10Autosomal STR, X-STR and Y-STR Profile*Electropherogram Cross Reference*

Mnemonic	ECR	Conditionality	O↑
		Status	Active
Description	The tenth information item is optional. It is called the electropherogram cross reference / ECR and has the same value as the electropherogram image reference / EIR from the appropriate subfield of Field 18.019: Electropherogram description / EPD that is associated with the information in this field and particular subfield instance (if there is such an electropherogram present in this instance of the record).		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)	Cardinality	1..1
XML Level 2	biom:DNASTRProfile	Cardinality	0..*
XML Level 3	biom:DNAElectropherogramIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.016_11Autosomal STR, X-STR and Y-STR Profile*Ladder Cross Reference*

Mnemonic	LCR			Conditionality	O↑		
				Status	Active		
Description	The eleventh information item is optional. It is called the ladder cross reference / LCR and has the same value as the ladder image reference / LIR from the appropriate subfield of Field 18.023: Electropherogram ladder / EPL that is associated with the in and particular subfield instance (if there is such a ladder present in this instance of the record).						
Field Min	1			Occur Min	0		
Field Max	8			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)				Cardinality	1..1	
XML Level 2	biom:DNASTRProfile				Cardinality	0..*	
XML Level 3	biom:DNAElectropherogramLadderIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.016_12Autosomal STR, X-STR and Y-STR Profile*Kit ID*

Mnemonic	KID			Conditionality	M ↑		
				Status	Active		
Description	The twelfth information item is the kit ID / KID. This mandatory information item contains a number that references the kit used to process the DNA described in this record. The numeric values for specific kits are contained in the table of kits maintained by NIST at: http://www.nist.gov/itl/iad/ig/ansi_standard.cfm . The values to be entered are those in the “Reference Number” column. The KID value shall be represented as 0 for a non-listed kit. If a non-listed kit is used (KID = 0), then the following three information items are mandatory.						
Field Min	1			Occur Min	0		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	0 <= KID <= 999; integer		
Code List	DNA KIT ID CODES						
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)				Cardinality	1..1	
XML Level 2	biom:DNASTRProfile (0...*)/biom:DNAKit (1...1)				Cardinality	1..1	
XML Level 3	biom:DNAKitIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Autosomal STR, X-STR and Y-STR Profile

Kit Name

Mnemonic	KNM			Conditionality	D		
				Status	Active		
Description	The thirteenth information item is the kit name / KNM. This is an alphanumeric value of up to 32 Unicode characters. KNM shall be entered if KID = 0.						
Field Min	1			Occur Min	0		
Field Max	32			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)				Cardinality	1..1	
XML Level 2	biom:DNASTRProfile (0...*)/biom:DNAKit (1...1)				Cardinality	1..1	
XML Level 3	biom:DNAKitName				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Autosomal STR, X-STR and Y-STR Profile

Manufacturer

Mnemonic	KMF			Conditionality	D		
				Status	Active		
Description	The fourteenth information item is the manufacturer / KMF. It is an alphanumeric value of up to 32 Unicode characters. KMF shall be entered if KID = 0.						
Field Min	1			Occur Min	0		
Field Max	32			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)				Cardinality	1..1	
XML Level 2	biom:DNASTRProfile (0...*)/biom:DNAKit (1...1)				Cardinality	1..1	
XML Level 3	biom:DNAKitManufacturerName				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.016_15Autosomal STR, X-STR and Y-STR Profile*Description of the Kit (with part or catalog number)*

Mnemonic	KDS			Conditionality	D		
				Status	Active		
Description	The fifteenth information item is the description of the kit (with part or catalog number) / KDS. This is up to 128 Unicode characters. KDS shall be entered if KID = 0.						
Field Min	1			Occur Min	0		
Field Max	128			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample (1...1)/biom:DNAProfile (1...1)				Cardinality	1..1	
XML Level 2	biom:DNASTRProfile (0...*)/biom:DNAKit (1...1)				Cardinality	1..1	
XML Level 3	biom:DNAKitDescriptionText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.017Mitochondrial DNA Data

Mnemonic	DMD			Conditionality	D
				Status	Active
Description	To accommodate the differences in how mtDNA types are derived (differences from reference), the interpretation issue is avoided in this standard by dividing the control region into 2 regions (even though HV3 exists) to ensure any insertions /deletions/stretches are included. This method enables any receiver of the data to use it in a way to which they are accustomed (either using the full sequence or interpreting the full sequence according to their own methodology). The resultant data use would then be fully consistent with the receiver’s database and enable processing. This is an optional field, but if it is entered, all information items are mandatory. This field is only present if Field 18.011: Sample typing information / STI has a subfield with the value 1.				
Field Min	n/a			Occur Min	0
Field Max	n/a			Occur Max	1
Char Types	n/a			Special Chars	n/a
Format	n/a			Constraints	n/a
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-18)				
XML Level 1	biom:DNASample			Cardinality	1..1
XML Level 2	biom:DNAMitochondrialData			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

18.017_1Mitochondrial DNA Data*Mito Control Region 1*

Mnemonic	MT1	Conditionality	M↑
		Status	Active
Description	This information item is the mito control region 1 / MT1. It is defined as inclusive of HV1, starting at 16024 and ending at 16569. The string may have up to 400 insertions. This string length allows for insertions in HV1. Each character is an IUPAC value.		
Field Min	1	Occur Min	1
Field Max	946	Occur Max	1
Char Types	AS	Special Chars	Comma
Format	n/a	Constraints	character string from Lookup Codes or a sequence value: A, G, C or T
Code List	IUPAC DNA CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAMitochondrialData	Cardinality	0..1
XML Level 3	biom:DNAMitoControlRegion1Text	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.017_2Mitochondrial DNA Data*Mito Control Region 2*

Mnemonic	MT2	Conditionality	M↑
		Status	Active
Description	The second information item is the mito control region 2 / MT2 is defined as inclusive of HV2 and HV3, starting at 1 and ending at 576. Up to 400 insertions may be specified. Each character is an IUPAC or a sequence value: A, G, C or T.		
Field Min	1	Occur Min	1
Field Max	977	Occur Max	1
Char Types	AS	Special Chars	Comma
Format	n/a	Constraints	character string from Lookup Codes or a sequence value: A, G, C or T
Code List	IUPAC DNA CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAMitochondrialData	Cardinality	0..1
XML Level 3	biom:DNAMitoControlRegion2Text	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.017_3Mitochondrial DNA Data*Base Composition Starting Point*

Mnemonic	BSP	Conditionality	M↑
		Status	Active
Description	The third information item is the base composition starting point / BSP. This entry is numeric, up to 5 digits. Starting point is the base position (rCRS) where the primer pair starts interrogating the mitochondrial DNA.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAMitochondrialData	Cardinality	0..1
XML Level 3	biom:DNAMitoBaseStartNumeric	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.017_4Mitochondrial DNA Data*Base Composition Ending Point*

Mnemonic	BEP	Conditionality	M↑
		Status	Active
Description	The fourth information item is the base composition ending point / BEP. This entry is numeric, up to 5 digits. Ending point is the base position (rCRS) where the primer pair stops interrogating the mitochondrial DNA.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer; BEP > BSP
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAMitochondrialData	Cardinality	0..1
XML Level 3	biom:DNAMitoBaseEndNumeric	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Mitochondrial DNA Data

Base Composition A Length

Mnemonic	BCA			Conditionality	M↑		
				Status	Active		
Description	The fifth information item is the base composition A length / BCA. It is a numerical value of up to two digits. A represents the number of adenines in the region being amplified.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample				Cardinality	1..1	
XML Level 2	biom:DNAMitochondrialData				Cardinality	0..1	
XML Level 3	biom:DNAMitoBaseAdenineQuantity				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Mitochondrial DNA Data

Base Composition G Length

Mnemonic	BCG			Conditionality	M↑		
				Status	Active		
Description	The sixth information item is the base composition G length / BCG. It is a numerical value of up to two digits. G represents the number of guanines in the region being amplified						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample				Cardinality	1..1	
XML Level 2	biom:DNAMitochondrialData				Cardinality	0..1	
XML Level 3	biom:DNAMitoBaseGuanineQuantity				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.017_7Mitochondrial DNA Data*Base Composition C Length*

Mnemonic	BCC	Conditionality	M↑
		Status	Active
Description	The seventh information item is the base composition C length / BCC. It is a numerical value of up to two digits. C represents the number of cytosines in the region being amplified.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAMitochondrialData	Cardinality	0..1
XML Level 3	biom:DNAMitoBaseCytosineQuantity	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.017_8Mitochondrial DNA Data*Base Composition T Length*

Mnemonic	BCT	Conditionality	M↑
		Status	Active
Description	The eighth information item is the base composition T length / BCT. It is a numerical value of up to two digits. T represents the number of thymines in the region being amplified.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAMitochondrialData	Cardinality	0..1
XML Level 3	biom:DNAMitoBaseThymineQuantity	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.018DNA User-Defined Profile

Mnemonic	UDP			Conditionality	D		
				Status	Active		
Description	This optional field is user-defined, when data other than Autosomal STR, X-STR, Y-STR, mtDNA or an electropherogram is included as part of the transaction. The sender shall provide the receiver with a description of the field contents. This field is only present if Field 18.011: Sample typing Information / STI has a subfield with the value 4.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample				Cardinality	1..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.018_0DNA User-Defined Profile

Mnemonic	UDP_0		Conditionality	M↑	
			Status	Active	
Description	This field is user-defined, when data other than Autosomal STR, X-STR, Y-STR, mtDNA or an electropherogram is included as part of the transaction. The sender shall provide the receiver with a description of the field contents. This field is only present if Field 18.011: Sample typing Information / STI has a subfield with the value 4.				
Field Min	n/a		Occur Min	1	
Field Max	n/a		Occur Max	*	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-18)				
XML Level 1	biom:DNASample			Cardinality	1..1
XML Level 2	biom:DNAUserDefinedProfile			Cardinality	0..*
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

18.019Electropherogram Description

Mnemonic	EPD			Conditionality	D		
				Status	Active		
Description	This optional field contains a subfield for each electropherogram. This field is only present if Field 18.011: Sample typing Information / STI has a subfield with value 2.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample				Cardinality	1..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.019_0Electropherogram Description

Mnemonic	EPD_0			Conditionality	M↑		
				Status	Active		
Description	This field contains a subfield for each electropherogram. This field is only present if Field 18.011: Sample typing Information / STI has a subfield with value 2.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample				Cardinality	1..1	
XML Level 2	biom:DNAElectropherogram				Cardinality	0..*	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.019_1Electropherogram Description*Electropherogram Image Reference*

Mnemonic	EIR	Conditionality	M↑
		Status	Active
Description	The first information item is the electropherogram image reference / EIR. It shall contain an alphanumeric reference up to 8 characters, which is unique for each image. If none has been assigned, enter 999.		
Field Min	1	Occur Min	1
Field Max	8	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	If none assigned enter 999
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAElectropherogram	Cardinality	0..*
XML Level 3	biom:DNAElectropherogramIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.019_2Electropherogram Description*Electropherogram Storage Type*

Mnemonic	EST	Conditionality	M↑
		Status	Active
Description	The second information item is the electropherogram storage type / EST. This is a character string of up to 4 characters, representing the file type suffix for the electropherogram. The data is stored in "fsa", "hid" or "----". The dashes may be substituted with character strings for other format types as they become available.		
Field Min	1	Occur Min	1
Field Max	4	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	"fsa", "hid" or "----", dashes may be substituted with character strings for other format types as they become available.
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAElectropherogram	Cardinality	0..*
XML Level 3	biom:DNAElectropherogramFileStorageText	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-18: DNA Data

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18.019_3

Electropherogram Description

Image Data Descriptor

Mnemonic	IDD			Conditionality	M↑		
				Status	Active		
Description	The third information item is the image data descriptor / IDD of the electropherogram contained in this subfield. If the data is stored externally, enter the filename. This is a Unicode string of up to 200 characters.						
Field Min	1			Occur Min	1		
Field Max	200			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample				Cardinality	1..1	
XML Level 2	biom:DNAElectropherogram				Cardinality	0..*	
XML Level 3	biom:DNAElectropherogramDataDescriptionText				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.019_4

Electropherogram Description

Electropherogram Data

Mnemonic	ELPD			Conditionality	M↑		
				Status	Active		
Description	The fourth information item is the electropherogram data/ ELPD. This shall be stored in base-64 format.						
Field Min	2			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	Base64			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample				Cardinality	1..1	
XML Level 2	biom:DNAElectropherogram				Cardinality	0..*	
XML Level 3	biom:DNAElectropherogramBinaryObject				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.019_5Electropherogram Description*Electropherogram Screenshot*

Mnemonic	EPS	Conditionality	O↑
		Status	Active
Description	The fifth information item is optional. It is the electropherogram screenshot / EPS. This may be an image captured during the analysis. This shall be stored in base-64 format.		
Field Min	2	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	Base64	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAElectropherogram	Cardinality	0..*
XML Level 3	biom:DNAElectropherogramScreenshotImage	Cardinality	0..1
XML Level 4	nc:BinaryBase64Object	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.02DNA Genotype Distribution

Mnemonic	DGD	Conditionality	O
		Status	Active
Description	This field contains informative genotype representation type of DNA information. It is an optional field. The entry is numeric: 0 = Likelihood 1 = Probability.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	DGD = 0 or 1; integer
Code List	DNA GENOTYPE DISTROBUTION CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAGenotypeDistributionCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.021DNA Genotype Allele Pair

Mnemonic	GAP			Conditionality	D		
				Status	Active		
Description	This field is only present if Field 18.020: DNA Genotype Distribution / DGD has a value. It is used for low-template, mixture or stain scenarios only. It is comprised of a repeating subfield that occurs once for each allele pair. Allele calls are captured in Field 18.016: Autosomal STR, X-STR and Y-STR profile / STR.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample				Cardinality	1..1	
XML Level 2	biom:DNAGenotypeAllelePair				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.021_0DNA Genotype Allele Pair

Mnemonic	GAP_0			Conditionality	M↑		
				Status	Active		
Description	This field is only present if Field 18.020: DNA Genotype Distribution / DGD has a value. It is used for low-template, mixture or stain scenarios only. It is comprised of a repeating subfield that occurs once for each allele pair. Allele calls are captured in Field 18.016: Autosomal STR, X-STR and Y-STR profile / STR.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample				Cardinality	1..1	
XML Level 2	biom:DNAGenotypeAllelePair				Cardinality	0..*	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.021_1DNA Genotype Allele Pair*Genotype Locus Reference*

Mnemonic	GLR	Conditionality	M↑
		Status	Active
Description	The first information item is the genotype locus reference / GLR. The current valid loci for Autosomal, Y and X-STRs are maintained by NIST and are available at http://www.nist.gov/itl/iad/ig/ansi_standard.cfm . The GLR is a numeric entry with up to 3 characters per locus. The maximum value of 200 listed in Table 100 is to allow for potential additions to the loci reference table.		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= GLR <= 200; positive integer
Code List	DNA LOCI CODES		
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAGenotypeAllelePair	Cardinality	0..*
XML Level 3	biom:DNALocusIdentification/nd:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.021_2DNA Genotype Allele Pair*Allele Pair*

Mnemonic	ALP	Conditionality	M↑
		Status	Active
Description	The second information item is the allele pair / ALP. This is a numeric information item containing the allele pair data of up to 9 numeric characters separated by a comma between values. An example is "14,23.3" or "22.1,23.3"		
Field Min	3	Occur Min	1
Field Max	9	Occur Max	1
Char Types	NS	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAGenotypeAllelePair	Cardinality	0..*
XML Level 3	biom:DNAGenotypeAllelePairText	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.021_3DNA Genotype Allele PairGenotype Numerical Weight

Mnemonic	GNW			Conditionality	M↑
				Status	Active
Description	The third information item is the genotype numerical weight / GNW. It is a non-negative real number up to 5 characters ranging from 0 to 1. An example is “0.114”.				
Field Min	1			Occur Min	1
Field Max	5			Occur Max	1
Char Types	NS			Special Chars	Period
Format	n/a			Constraints	0 <= GNW <=1; non-negative real number up to 5 characters, which may have a period
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-18)				
XML Level 1	biom:DNASample			Cardinality	1..1
XML Level 2	biom:DNAGenotypeAllelePair			Cardinality	0..*
XML Level 3	biom:DNAGenotypeWeightNumeric			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

18.022Comment

Mnemonic	COM			Conditionality	O		
				Status	Active		
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.						
Field Min	1			Occur Min	0		
Field Max	126			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample				Cardinality	1..1	
XML Level 2	biom.DNACommentText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.023Electropherogram Ladder

Mnemonic	EPL	Conditionality	D
		Status	Active
Description	This optional field contains a repeating subfield for a ladder / control sample. This field is only present if Field 18.011: Sample typing Information / STI has a subfield with the value 3.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAElectropherogramLadder	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.023_0Electropherogram Ladder

Mnemonic	EPL_0	Conditionality	M↑
		Status	Active
Description	This field contains a repeating subfield for a ladder / control sample. This field is only present if Field 18.011: Sample typing Information / STI has a subfield with the value 3.		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	*
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAElectropherogramLadder	Cardinality	0..*
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.023_1Electropherogram Ladder*Ladder Image Reference*

Mnemonic	LIR	Conditionality	M↑
		Status	Active
Description	The first information item is the ladder image reference / LIR. It shall contain an alphanumeric reference up to 8 characters, which is unique for each image. If none has been assigned, enter 999. This is a unique identifier.		
Field Min	1	Occur Min	1
Field Max	8	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAElectropherogramLadder	Cardinality	0..*
XML Level 3	biom:DNAElectropherogramIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.023_2Electropherogram Ladder*Ladder Storage Type*

Mnemonic	LST	Conditionality	M↑
		Status	Active
Description	The second information item is the ladder storage type / LST. This is a string of up to 4 characters, representing the file type suffix for the electropherogram. The data is stored in "fsa", "hid" or "----" The dashes may be substituted with character strings for other format types as they become available.		
Field Min	1	Occur Min	1
Field Max	4	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAElectropherogramLadder	Cardinality	0..*
XML Level 3	biom:DNAElectropherogramFileStorageText	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.023_3Electropherogram Ladder*Ladder Image Data Descriptor*

Mnemonic	LDD	Conditionality	M↑
		Status	Active
Description	The third information item is the ladder image data descriptor / LDD of the electropherogram contained in this subfield. If the data is stored externally, enter the filename. This is an alphanumeric string with special characters allowed. An example is "NIST Run 5 Well A07 12 Jan 11"		
Field Min	1	Occur Min	1
Field Max	200	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAElectropherogramLadder	Cardinality	0..*
XML Level 3	biom:DNAElectropherogramDataDescriptionText	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.023_4Electropherogram Ladder*Ladder Electropherogram Data*

Mnemonic	LEPD	Conditionality	M↑
		Status	Active
Description	The fourth information item is the ladder electropherogram data/ LEPD. This shall be stored in base-64 format.		
Field Min	2	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	Base64	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAElectropherogramLadder	Cardinality	0..*
XML Level 3	biom:DNAElectropherogramBinaryObject	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.023_5Electropherogram Ladder*Ladder Electropherogram Screenshot*

Mnemonic	LES	Conditionality	O↑
		Status	Active
Description	The fifth information item is optional. It is the ladder electropherogram screenshot / LES. This may be an image captured during the analysis. This shall be stored in base-64 format.		
Field Min	2	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	Base64	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:DNAElectropherogramLadder	Cardinality	0..*
XML Level 3	biom:DNAElectropherogramScreenshotImage	Cardinality	0..1
XML Level 4	nc:BinaryBase64Object	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.902Annotation Information

Mnemonic	ANN	Conditionality	O
		Status	Active
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:ProcessAnnotation	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	No
		DoD EBTS 4.0	Yes

18.902_0Annotation Information*Subfields: Repeating sets of information items*

Mnemonic	ANN_0			Conditionality	M↑		
				Status	Active		
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	None		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

18.902_1Annotation Information*Greenwich Mean Time*

Mnemonic	GMT			Conditionality	M↑		
				Status	Active		
Description	This information item is the Greenwich Mean Time (GMT) when the processing occurred. The data is formatted as YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. This time is independent of the actual time zone where the time and date is recorded.						
Field Min	15			Occur Min	1		
Field Max	15			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding			Constraints	Dependent upon encoding		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom:ProcessUTCDate/nc:DateTime				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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18.902_2

Annotation Information

Processing Algorithm Name / Version

Mnemonic	NAV			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain text identifying the name and version of the processing algorithm, application, procedure, or workstation						
Field Min	1			Occur Min	1		
Field Max	*			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom:ProcessName				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

18.902_3

Annotation Information

Algorithm Owner

Mnemonic	OWN			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain an unformatted text string of up to 64 characters with the contact information for the organization that owns the processing algorithm or latent workstation. Where there is no 'algorithm owner,' enter N/A.						
Field Min	1			Occur Min	1		
Field Max	64			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom:ProcessOwnerText				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-18: DNA Data

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18.902_4

Annotation Information

Process Description

Mnemonic	PRO	Conditionality	M↑
		Status	Active
Description	This information item field shall contain text describing a process or procedure applied to the sample in this Type-9 record.		
Field Min	1	Occur Min	1
Field Max	255	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:ProcessAnnotation	Cardinality	0..*
XML Level 2	biom:ProcessDescriptionText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

18.992

Type-2 Record Cross Reference

Mnemonic	T2C	Conditionality	M
		Status	Active
Description	This is an optional field. When used, it contains the IDC value of the Type-2 record that contains relevant biographic information and other data concerning the subject of this instance of the record, who may be different from the subject of the transacti		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= T2C <=99; integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-18)		
XML Level 1	biom:Type2CrossReferenceIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-18: DNA Data

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18.993

Source Agency Name

Mnemonic	SAN			Conditionality	0		
				Status	Active		
Description	This is an optional field. It may contain up to 125 Unicode characters. It is the name of the agency referenced in Field xx.004: Source agency / SRC for record types 9-99.						
Field Min	1			Occur Min	0		
Field Max	125			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:DNASample			Cardinality	1..1		
XML Level 2	biom:BiometricCaptureDetail			Cardinality	0..1		
XML Level 3	biom:CaptureOrganization			Cardinality	0..1		
XML Level 4	nc:OrganizationName			Cardinality	0..1		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.995

Annotated Information

Mnemonic	ASC				Conditionality	0	
					Status	Active	
Description	This optional field refers to one or more Type 21 Records with the same ACN. Type 21 Records contain images that are NOT used to derive the biometric data in Field 13.999: Latent friction ridge image (DATA) but that may be relevant to the collection of that data, such as general scenes of the area where a latent print was found.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars	n/a	
Format	n/a				Constraints	n/a	
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:AssociatedContext					Cardinality	0..1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-18: DNA Data

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18.995_0

Annotated Information

Mnemonic	ASC_0			Conditionality	M ↑		
				Status	Active		
Description	This optional field refers to one or more Type 21 Records with the same ACN. Type 21 Records contain images that are NOT used to derive the biometric data in Field 13.999: Latent friction ridge image (DATA) but that may be relevant to the collection of that data, such as general scenes of the area where a latent print was found.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	255		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:AssociatedContext/nc:IdentificationID				Cardinality	0..255	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

18.995_1

Associated Context Number

Mnemonic	ACN			Conditionality	M↑		
				Status	Active		
Description	The first information item for the Associated Context field for a particular Record Type-21. This is mandatory for each Field xx.995, when the field is used. It contains an index to a particular instance of a Type-21 record in the transaction. This same index value appears in the appropriate instance of Record Type-21 as Field 21.021: Associated context number (CAN). The value of the CAN shall be a sequentially assigned a positive integer starting from one and incremented by one, not to exceed 255.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	n/a			Special Chars	None		
Format	n/a			Constraints	1 <= ACN <= 255; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:AssociatedContext/nc:IdentificationID				Cardinality	0..255	
XML Level 2	biom:ContextIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.995_2Associated ContextAssociated Segment Position

Mnemonic	ASP			Conditionality	0↑		
				Status	Active		
Description	The first information item is the associated segment position (ASP). This provides a unique index to a segmentation.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	1 <= ASP <= 99; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-18)						
XML Level 1	biom:AssociatedContext/nc:IdentificationID				Cardinality	0..255	
XML Level 2	biom_2:ImageSegmentIdentification/nc:IdentificationID				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.998Geographic Sample Acquisition Location

Mnemonic	GEO			Conditionality	0		
				Status	Active		
Description	This optional field contains the location where the iris sample/original source/context information was acquired – not where it is stored.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-14)						
XML Level 1	biom:DNASample				Cardinality	1..1	
XML Level 2	biom:BiometricCaptureDetail				Cardinality	0..1	
XML Level 3	biom:CaptureLocation				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.998_01Geographic Sample Acquisition Location*Universal Time Entry*

Mnemonic	UTE	Conditionality	O↑
		Status	Active
Description	The coordinated universal time (UTC) where the biometric sample was collected. This time is independent of the actual time zone where the time and date is recorded. The date is YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. If sample collection time is unknown, set it to "00000000000000Z."		
Field Min	15	Occur Min	0
Field Max	15	Occur Max	1
Char Types	AN	Special Chars	None
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding	Constraints	Dependent upon encoding
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-14)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:BiometricCaptureDetail	Cardinality	0..1
XML Level 3	biom:CaptureUTCDateTime/nc:DateTime	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.998_02Geographic Sample Acquisition Location*Latitude Degree Value*

Mnemonic	LTD	Conditionality	D
		Status	Active
Description	The second information item is latitude degree value (LTD). This is a value that specifies the degree of latitude. The value shall be between -90 (inclusive) and +90 (inclusive). The degrees may be expressed as an integer (without a decimal) or a real number including decimals. If decimals are present, then minutes and seconds shall be empty. Examples: Buenos Aires, Argentina: -34 (with minutes LTM = 36) NIST, Gaithersburg, Maryland: 39.137627 (no LTM or LTS)		
Field Min	1	Occur Min	0
Field Max	9	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	=-90 <= LTD <= 90
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-14)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:BiometricCaptureDetail	Cardinality	0..1
XML Level 3	biom:CaptureLocation(0...1)/biom:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	
XML Level 4	nc:LatitudeDegreeValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.998_03Geographic Sample Acquisition Location*Latitude Minute Value*

Mnemonic	LTM	Conditionality	D
		Status	Active
Description	This information item is latitude minute value (LTM). This is a value that specifies a minute of a degree. The value shall be between 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall be empty. Thus, the allowed special character is a period. The minute value can be empty, even if the degree value is an integer. LTM and LGM are co-conditional, so they shall both be present if either is present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	0 <= LTM < 60
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-14)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:BiometricCaptureDetail	Cardinality	0..1
XML Level 3	biom:CaptureLocation(0...1)/biom:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0..1
XML Level 4	nc:LatitudeMinuteValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.998_04Geographic Sample Acquisition Location*Latitude Second Value*

Mnemonic	LTS	Conditionality	D
		Status	Active
Description	The fourth information item is the latitude second value (LTS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LTS < 60
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-14)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:BiometricCaptureDetail	Cardinality	0..1
XML Level 3	biom:CaptureLocation(0...1)/biom:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0..1
XML Level 4	nc:LatitudeSecondValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.998_05Geographic Sample Acquisition Location*Longitude Degree Value*

Mnemonic	LGD	Conditionality	D
		Status	Active
Description	The fifth information item is the longitude degree value (LGD). It is a value that specifies the degree of a longitude. The value shall be between -180 (inclusive) and +180 (inclusive). If LTD is present, then LGD shall be present. The degrees may be expressed as whole numbers (without a decimal) or real numbers including decimals. If decimals are present, then minutes and seconds are empty. Examples: Buenos Aires, Argentina: -58 (with minutes LGM = 22), NIST, Gaithersburg, Maryland: -77.216032 (no LGM or LGS)		
Field Min	1	Occur Min	0
Field Max	10	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	-180 <= LGD <= 180
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-14)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:BiometricCaptureDetail	Cardinality	0..1
XML Level 3	biom:CaptureLocation(0..1)/biom:LocationTwoDimensionalGeographicCoordinate(0..1)/nc:GeographicCoordinateLongitude (0..1)	Cardinality	0..1
XML Level 4	nc:LongitudeDegreeValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.998_06Geographic Sample Acquisition Location*Longitude Minute Value*

Mnemonic	LGM	Conditionality	D
		Status	Active
Description	The sixth information item is the longitude minute value (LGM). It is a value that specifies a minute of a degree. The value shall be from 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall not appear. The minute value is empty, even if the degree value is an integer. If LTM is present, then LGM shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	0 <= LGM < 60
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-14)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:BiometricCaptureDetail	Cardinality	0..1
XML Level 3	biom:CaptureLocation(0..1)/biom:LocationTwoDimensionalGeographicCoordinate(0..1)/nc:GeographicCoordinateLongitude (0..1)	Cardinality	0..1
XML Level 4	nc:LongitudeMinuteValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.998_07Geographic Sample Acquisition Location*Longitude Second Value*

Mnemonic	LGS	Conditionality	D
		Status	Active
Description	The seventh information item is the longitude second value (LGS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer. If LTS is present, then LGS shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LGS < 60
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-14)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:BiometricCaptureDetail	Cardinality	0..1
XML Level 3	biom:CaptureLocation(0...1)/biom:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLongitude (0...1)	Cardinality	0..1
XML Level 4	nc:LongitudeSecondValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.998_08Geographic Sample Acquisition Location*Elevation*

Mnemonic	ELE	Conditionality	O
		Status	Active
Description	The eighth information item is elevation (ELE). It is expressed in meters. It is a numeric value. It is between -422 meters (Dead Sea) and 8848 meters (Mount Everest). Allowed special characters are the negative sign and the period.		
Field Min	3	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Minus Sign,Period
Format	n/a	Constraints	-422.000 < ELE < 8848.000; real number
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-14)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:BiometricCaptureDetail	Cardinality	0..1
XML Level 3	biom:CaptureLocation(0...1)/nc:LocationGeographicElevation (0...1)	Cardinality	0..1
XML Level 4	nc:MeasurePointValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

18.998_09Geographic Sample Acquisition Location*Geodetic Datum Code*

Mnemonic	GDC	Conditionality	O
		Status	Active
Description	The ninth information item is the geodetic datum code (GDC11). It is an alphanumeric value of 3 to 6 characters in length. This information item is used to indicate which coordinate system was used to represent the values in information items 2 through 7. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values.		
Field Min	2	Occur Min	0
Field Max	6	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	GEOGRAPHIC COORDINATE DATUM CODE		
Source	ANSI/NIST ITL 1-2011 (Type-14)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:BiometricCaptureDetail	Cardinality	0..1
XML Level 3	biom:CaptureLocation(0...1)/biom:LocationTwoDimensionalGeographicCoordinate (0...1)	Cardinality	0..1
XML Level 4	biom:GeodeticDatumCoordinateSystemName or biom:GeodeticDatumCoordinateSystemCode	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.998_10Geographic Sample Acquisition Location*Geographic Coordinate Universal Transverse Mercator Zone*

Mnemonic	GCM	Conditionality	D
		Status	Active
Description	It is an alphanumeric value of 2 to 3 characters. This is a one or two digit UTM zone number followed by the 8 degree latitudinal band designator (which is a single letter).		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	One or two digit UTM zone
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-14)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:BiometricCaptureDetail	Cardinality	0..1
XML Level 3	biom:CaptureLocation(0...1)/nc:LocationUTMCoordinate (0...1)	Cardinality	0..1
XML Level 4	nc:UTMGridZoneID	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.998_11Geographic Sample Acquisition Location*Geographic Coordinate Universal Transverse Mercator Easting*

Mnemonic	GCE	Conditionality	D
		Status	Active
Description	The eleventh information item is the geographic coordinate universal transverse Mercator easting (GCE). It is an integer of 1 to 6 digits.		
Field Min	1	Occur Min	0
Field Max	6	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= GCE; integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-14)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:BiometricCaptureDetail	Cardinality	0..1
XML Level 3	biom:CaptureLocation(0..1)/nc:LocationUTMCoordinate (0..1)	Cardinality	0..1
XML Level 4	nc:UTMEastingValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.998_12Geographic Sample Acquisition Location*Geographic Coordinate Universal Transverse Mercator Northing*

Mnemonic	GCN	Conditionality	D
		Status	Active
Description	The twelfth information item is the geographic coordinate universal transverse Mercator northing (GCN). It is an integer of 1 to 8 digits.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= GCN; integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-14)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:BiometricCaptureDetail	Cardinality	0..1
XML Level 3	biom:CaptureLocation(0..1)/nc:LocationUTMCoordinate (0..1)	Cardinality	0..1
XML Level 4	nc:UTMNorthingValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.998_13Geographic Sample Acquisition Location*Geographic Reference Text*

Mnemonic	GRT	Conditionality	O
		Status	Active
Description	It is a free form text describing a street address or other physical location (such as 'Corner of Washington and Madison, Geneva, NY').		
Field Min	1	Occur Min	0
Field Max	150	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-14)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:BiometricCaptureDetail	Cardinality	0..1
XML Level 3	biom:CaptureLocation(0..1)	Cardinality	0..1
XML Level 4	nc:LocationDescriptionText	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.998_14Geographic Sample Acquisition Location*Geographic Coordinate Other System Identifier*

Mnemonic	OSI	Conditionality	O
		Status	Active
Description	A fourteenth optional information item geographic coordinate other system identifier (OSI) allows for other coordinate systems. This information items specifies the system identifier. It is up to 10 characters in length. Examples are: • MGRS (Military Grid Reference System), • USNG (United States National Grid), • GARS (Global Area Reference System), • GEOREF (World Geographic Reference), • LANDMARK landmark (e.g. hydant) and position relative to the landmark.		
Field Min	1	Occur Min	0
Field Max	10	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-14)		
XML Level 1	biom:DNASample	Cardinality	1..1
XML Level 2	biom:BiometricCaptureDetail	Cardinality	0..1
XML Level 3	biom:CaptureLocation(0..1)/biom:LocationAlternateGeographicSystem Value (0..1)	Cardinality	0..1
XML Level 4	biom:GeographicLocationSystemName	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

18.998_15Geographic Sample Acquisition Location*Geographic Coordinate Other System Value*

Mnemonic	OCV		Conditionality	D	
			Status	Active	
Description	A fifteenth optional information item, is the geographic coordinate other system value (OCV). It shall only be present if OSI is present in the record. It can be up to 126 characters in length. If OSI is LANDMARK, OCV is free text and may be up to 126 characters. For details on the formatting of OCV for the other coordinate systems shown in OSI as examples, see http://earth-info.nga.mil/GandG/coordsys/grids/referencesys.html .				
Field Min	1	Occur Min	0		
Field Max	126	Occur Max	1		
Char Types	U	Special Chars	Any		
Format	n/a	Constraints	None		
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-14)				
XML Level 1	biom:DNASample		Cardinality	1..1	
XML Level 2	biom:BiometricCaptureDetail		Cardinality	0..1	
XML Level 3	biom:CaptureLocation(0...1)/biom:LocationAlternateGeographicSystem Value (0...1)		Cardinality	0..1	
XML Level 4	biom:GeographicLocationText		Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

20.001Record Header

Mnemonic	LEN		Conditionality	M	
			Status	Active	
Description	The record header appears as the first field (xx.001) in each Record Type. It contains information particular to the encoding format chosen, in order to enable proper reading of the record. In Traditional encoding, this field contains the record length in bytes (including all information separators). In NIEM-conformant XML encoding, this field contains the RecordCategoryCode, which is the numeric representation of the Record Type. n/a				
Field Min	T = 4; X = 1		Occur Min	1	
Field Max	T = 8; X = 2		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	positive integer	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-20)				
XML Level 1	nist-itl:RecordCategoryCode			Cardinality	1...1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

20.002**Information Designation Character**

Mnemonic	IDC	Conditionality	M
		Status	Active
Description	Each of the records present in a transaction, with the exception of the Type-1 record, shall include a field (xx.002) containing the information designation character (IDC). The value of the IDC shall be a sequentially assigned positive integer starting from zero and incremented by one up to a maximum of 99. IDC references are stated in Type-1 Field 1.003 Transaction content (CNT) and shall be used to relate information items in the CNT field of the Type-1 record to the other records in the transaction. Two or more records may share a single IDC solely to identify and link together records that pertain to different representations of the same biometric trait. n/a		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= IDC <= 99 integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	nist-itl:ImageReferenceIdentification/nc:IdentificationID		Cardinality 1...1
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.003**SRN Cardinality**

Mnemonic	CAR			Conditionality	M		
				Status	Active		
Description	This mandatory field indicates how this record is being used. It describes the cardinality: one to one (S), one to many (D), or many-to-one (M) of how the source representation record relates to other record(s) within the transaction. n/a						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	CAR = S, D, or M		
Code List	CARDINALITY CODE						
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom_2:SourceRecordCardinalityCode				Cardinality	1..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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20.004

Source Agency

Mnemonic	SRC	Conditionality	M
		Status	Active
Description	This is the identifier of the agency that actually created the record and supplied the information contained in it. n/a		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage or biom:SourceVideo or biom:SourceAudio	Cardinality	1...1
XML Level 2	biom:ImageCaptureDetail or biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 3	biom:CaptureOrganization	Cardinality	1..1
XML Level 4	nc:OrganizationIdentification/nc:IdentificationType	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.005

Source Representation Date

Mnemonic	SRD	Conditionality	O
		Status	Active
Description	This optional field shall contain the local date and time that the source representation contained in the record was captured. n/a		
Field Min	Dependent upon encoding	Occur Min	0
Field Max	Dependent upon encoding	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	YYYYMMDDhhmm
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage or biom:SourceVideo or biom:SourceAudio	Cardinality	1...1
XML Level 2	biom:ImageCaptureDetail or biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 3	biom:CaptureDate	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.006HashHorizontal Line Length

Mnemonic	HLL	Conditionality	D
		Status	Active
Description	HLL defines the number of pixels contained on a single horizontal line of the image. The maximum horizontal size is limited to 65,535 pixels in Record Types-4 and 8, and to 99,999 for other record types. The minimum value is 10 pixels. The total image size (HLL times VLL) must be able to be accommodated in Field xx.001 for Traditional encoding. n/a		
Field Min	2	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	T = 10 <= HLL <= 99999; positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage	Cardinality	1...1
XML Level 2	biom_2:ImageHorizontalLineLengthPixelQuantity	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.007Vertical Line Length

Mnemonic	VLL	Conditionality	D
		Status	Active
Description	VLL defines the number of horizontal lines contained in the image. The maximum vertical size is limited to 65,535 pixels in Record Types-4 and 8, and to 99,999 for other record types. The minimum value is 10 pixels. n/a		
Field Min	2	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	T = 10 <= VLL <= 99999, positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage	Cardinality	1...1
XML Level 2	biom_2:ImageVerticalLineLengthPixelQuantity	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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20.008

Scale Units

Mnemonic	SLC			Conditionality	D		
				Status	Active		
Description	The image sampling frequency (pixel density). A value of “1” shall indicate pixels per inch. A value of “2” shall indicate pixels per centimeter. A value of “0” in this field indicates that no scale is provided, and the quotient of THPS/TVPS shall provide the pixel aspect ratio. For non-contact images of body parts, SLC shall be set to 0 unless the object being imaged is a fixed distance from the capture device and the ppi or ppm values for the capture device are accurately known at that fixed distance. n/a						
Field Min	1			Occur Min	0		
Field Max	1			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	SLC = 0, 1 or 2 integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceImage				Cardinality	1...1	
XML Level 2	biom:ImageScaleUnitsCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.009

Transmitted Horizontal Pixel Scale

Mnemonic	THPS			Conditionality	D		
				Status	Active		
Description	This is the integer pixel density used in the horizontal direction of the image if SLC has a value of “1” or “2”. If SLC has a value of “0”, this information item shall contain the horizontal component of the pixel aspect ratio, up to 5 integer digits. For example, if the SLC value = 1, then the value of THPS could be ‘1000’ for a 1000 ppi sensor. n/a						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceImage				Cardinality	1..1	
XML Level 2	biom:ImageHorizontalPixelDensityValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.01

Transmitted Vertical Pixel Scale

Mnemonic	TVPS			Conditionality	D		
				Status	Active		
Description	This is the integer pixel density used in the vertical direction of the image if SLC has a value of “1” or “2”. If SLC has a value of “0”, this information item shall contain the vertical component of the pixel aspect ratio, up to 5 integer digits. If SLC is 1 or 2, then TVPS shall equal THPS. n/a						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceImage				Cardinality	1..1	
XML Level 2	biom:ImageVerticalPixelDensityValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.011

Compression Algorithm

Mnemonic	CGA			Conditionality	D		
				Status	Active		
Description	This is a mandatory field. It shall specify the algorithm used to compress the transmitted color or grayscale images. n/a						
Field Min	3			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	n/a			Constraints	value from Image Compression Algorithm Type		
Code List	COMPRESSION CODES						
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceImage				Cardinality	1..1	
XML Level 2	biom:ImageCompressionAlgorithmText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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20.012

Bits Per Pixel

Mnemonic	BPX			Conditionality	D		
				Status	Active		
Description	This ASCII field shall contain the number of bits used to represent a pixel. This field shall contain an entry of “8” for normal grayscale values of “0” to “255” or each RGB color component. Any entry in this field greater than “8” shall represent a grayscale or color pixel component with increased precision. n/a						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	8<= BPX <= 99 positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceImage				Cardinality	1..1	
XML Level 2	biom:ImageBitsPerPixelQuantity				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.013

Color Space

Mnemonic	CSP			Conditionality	D		
				Status	Active		
Description	It shall contain an entry from the lookup codes below. This field is mandatory if a 2D still image is contained in this instance of the record. Otherwise it shall be omitted. n/a						
Field Min	3			Occur Min	0		
Field Max	4			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	Value from Color Space Type		
Code List	COLOR SPACES CODE						
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceImage				Cardinality	1..1	
XML Level 2	biom:ImageColorSpaceCode				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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20.014

Acquisition Source

Mnemonic	AQS			Conditionality	M		
				Status	Active		
Description	This mandatory field shall specify and describe the acquisition source. The information items may be repeated for up to 9 sources. n/a						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom_2:SourceAcquisition				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.014_0

Acquisition Source

Subfields: Repeating sets of information items

Mnemonic	AQS_0			Conditionality	M		
				Status	New - Active		
Description	This mandatory field shall specify and describe the acquisition source. The information items may be repeated for up to 9 sources. n/a						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	9		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom_2:SourceAcquisition				Cardinality	1..9	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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20.014_1

Acquisition Source

Acquisition Source Type

Mnemonic	AQT			Conditionality	M		
				Status	Active		
Description	The first information item, Acquisition source type (AQT), is mandatory and it shall be a numeric entry selected from the “attribute code’ column of the Acquisition Source codelist. n/a						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	see Look Up Codes		
Code List	ACQUISITION SOURCE CODE						
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom_2:SourceAcquisition				Cardinality	1..9	
XML Level 2	dod-ebts:AcquisitionSourceCode				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.014_2

Acquisition Source

Analog to Digital Conversion

Mnemonic	A2D			Conditionality	D		
				Status	Active		
Description	The second information item is mandatory if the acquisition source is analog, and the data is stored in digital format. It is a text field, analog to digital conversion (A2D), that describes the analog to digital equipment used to store a representation of the source. This field should address parameters used, such as sample rate, if known. n/a						
Field Min	1			Occur Min	0		
Field Max	200			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom_2:SourceAcquisition				Cardinality	1..9	
XML Level 2	dod-ebts:AcquisitionDigitalConversionDescriptionText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.014_3Acquisition Source*Radio Transmission Format Description*

Mnemonic	FDN	Conditionality	D
		Status	Active
Description	The third information item is mandatory if the AQT is 23 or 24. It is a text field, radio transmission format description (FDN). It is optional for other radio transmission codes. n/a		
Field Min	1	Occur Min	0
Field Max	200	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom_2:SourceAcquisition	Cardinality	1..9
XML Level 2	dod-ebts:AcquisitionFormatDescriptionText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.014_4Acquisition Source*Acquisition Special Characteristics*

Mnemonic	AQSC	Conditionality	D
		Status	Active
Description	The fourth information item is optional. It is a free text field, acquisition special characteristics (AQSC) that is used to describe any specific conditions not mentioned in the [Acquisition Source] table. An example would be a nearinfrared camera outputting images in visible wavelengths. n/a		
Field Min	1	Occur Min	0
Field Max	200	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom_2:SourceAcquisition	Cardinality	1..9
XML Level 2	dod-ebts:AcquisitionSpecialCharacteristicsText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.015Source Representation Format

Mnemonic	SFT	Conditionality	M
		Status	Active
Description	This is a mandatory field comprised of two information items. n/a		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom_2:SourceFileFormat		Cardinality 1..1
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.015_1Source Representation Format*File Type*

Mnemonic	FTY	Conditionality	M
		Status	Active
Description	The first information item is mandatory. It is file type (FTY). If the source representation is a digital file, this shall contain the suffix indicating the file type (such as JPG). If it is an analog file, enter 'ANALOG'. For digital data stored in other formats (such as digital tape), enter 'OTHER'. n/a		
Field Min	3	Occur Min	1
Field Max	6	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom_2:SourceFileFormat		Cardinality 1..1
XML Level 2	dod-ebts:SourceFileCategoryText		Cardinality 1..1
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.015_2Source Representation Format*Decoding Instructions*

Mnemonic	DEI	Conditionality	O
		Status	Active
Description	The second information item is decoding instructions (DEI). It is optional and contains free text up to 1000 characters. n/a		
Field Min	1	Occur Min	0
Field Max	1000	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom_2:SourceFileFormat	Cardinality	1..1
XML Level 2	dod-ebts:SourceFileDecodingInstructionsText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.016Segments

Mnemonic	SEG	Conditionality	O
		Status	New-Active
Description	This optional field shall consist of a subfield for each segment of a 2D image to be defined. Each subfield consists of a series of information items. n/a		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceVideo	Cardinality	1..1
XML Level 2	biom:ImageSegment	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Segments

Subfields: Repeating sets of information items

Mnemonic	SEG_0			Conditionality	M↑		
				Status	Active		
Description	This optional field shall consist of a subfield for each segment of a 2D image to be defined. Each subfield consists of a series of information items.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	99		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceVideo				Cardinality	1..1	
XML Level 2	biom:ImageSegment				Cardinality	0..99	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.016_1

Segments

Reference Segment Position

Mnemonic	RSP			Conditionality	M↑		
				Status	Active		
Description	The first information item is the reference segment position / RSP. This provides a unique index to a segmentation.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= RSP <= 99, positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceVideo				Cardinality	1..1	
XML Level 2	biom:ImageSegment				Cardinality	0..99	
XML Level 3	biom:ImageSegmentIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.016_2Segments*Internal File Reference Pointer*

Mnemonic	IPT			Conditionality	M↑
				Status	Active
Description	This information item is the internal file reference pointer (IPT). It is set to 0 if the source representation is a single file. If the external file referenced in Field 20.994: External file reference (EFR) or Field 21.994: External file reference (EFR) is a PDF, video, or presentation file, or has multiple locations where a sample may be located, this information item is the reference to the particular instance, such as page, video frame, or slide number used to derive the image transmitted in other record types. If a particular frame is chosen and there is no further image segmentation needed, the following information items shall not be used.				
Field Min	1			Occur Min	1
Field Max	15			Occur Max	1
Char Types	ANS			Special Chars	n/a
Format	n/a			Constraints	None
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-20)				
XML Level 1	biom:SourceVideo			Cardinality	1..1
XML Level 2	biom:ImageSegment			Cardinality	0..99
XML Level 3	biom:ImageSegmentInternalIdentification/nc:IdentificationID			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

20.016_3Segments*Number of Points*

Mnemonic	NOP			Conditionality	D		
				Status	Active		
Description	Specifies the number of vertices. HPO and VPO are repeated as pairs, in order by point following the path, up to the final point – for a total of NOP pairs.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	3 <= NOP <= 99, positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceVideo				Cardinality	1..1	
XML Level 2	biom:ImageSegment				Cardinality	0..99	
XML Level 3	biom:PositionPolygonVertexQuantity				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.016_4Segments*Horizontal Point Offset*

Mnemonic	HPO	Conditionality	D
		Status	Active
Description	The pixel counts to the right. HPO and VPO are repeated as pairs, in order by point following the path, up to the final point – for a total of NOP pairs.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= HPO <= HLL, positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceVideo	Cardinality	1..1
XML Level 2	biom:ImageSegment	Cardinality	0..99
XML Level 3	biom:PositionPolygonVertexQuantity	Cardinality	0..99
XML Level 4	biom:PositionHorizontalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.016_5Segments*Vertical Point Offset*

Mnemonic	VPO	Conditionality	D
		Status	Active
Description	The pixel counts down from the origin.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= VPO <= VLL, positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceVideo	Cardinality	1..1
XML Level 2	biom:ImageSegment	Cardinality	0..99
XML Level 3	biom:PositionPolygonVertexQuantity	Cardinality	0..99
XML Level 4	biom:PositionVerticalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.017Scanned Horizontal Pixel Scale

Mnemonic	SHPS			Conditionality	D		
				Status	Active		
Description	This ASCII field shall specify the horizontal pixel density used for scanning providing the SLC field contains a "1" or a "2". Otherwise, it indicates the horizontal component of the pixel aspect ratio.						
Field Min	1			Occur Min	0		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail				Cardinality	1...1	
XML Level 2	biom:CaptureHorizontalPixelDensityValue				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.018Scanned Vertical Pixel Scale

Mnemonic	SVPS		Conditionality	D	
			Status	Active	
Description	This ASCII field shall specify the vertical pixel density used for scanning providing the SLC field contains a "1" or a "2". Otherwise, it indicates the vertical component of the pixel aspect ratio. Note that density is directly related to resolution. If SLC is 1 or 2 and SHPS is entered, then SVPS shall equal SHPS. This field is used if the transmission pixel scale differs from the original image scale, as listed in Transmitted vertical pixel scale / TVPS.				
Field Min	1	Occur Min	0		
Field Max	5	Occur Max	1		
Char Types	N	Special Chars	None		
Format	n/a	Constraints	positive integer		
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-20)				
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail			Cardinality	0..1
XML Level 2	biom_2:CaptureVerticalPixelDensityValue			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

20.019Time Index

Mnemonic	TIX		Conditionality	D
			Status	Active
Description	This is a conditional field. If the record contains video or audio, it shall contain the start and end times of segments within the file. For Type-20 or Type-21 records containing video or audio, this field shall contain two information items, time index start /TIS and time index end / TIE for the start and end times of segments within a video or audio file, measured in hh:mm:ss.sss. This field is comprised of one or more subfields. Each repeating subfield corresponds to a single segment, with a starting and end time as separate information items. This data is handled differently for each encoding. The zero time index shall be clearly indicated on the source, unless it is the absolute beginning of the file.			
Field Min	n/a	Occur Min	0	
Field Max	n/a	Occur Max	1	
Char Types	n/a	Special Chars	n/a	
Format	n/a	Constraints	n/a	
Code List				
Source	ANSI/NIST ITL 1-2013 (Type-20)			
XML Level 1	biom:SourceImage or biom:SourceVideo		Cardinality	1..1
XML Level 2	biom:TimeSegment		Cardinality	0..1
XML Level 3			Cardinality	
XML Level 4			Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0 Yes DoD EBTS 4.0 Yes

20.019_0Time Index*Subfields: Repeating sets of information items*

Mnemonic	TIX_0		Conditionality	M↑
			Status	New-Active
Description	Subfields: Repeating sets of information items			
Field Min	n/a	Occur Min	0	
Field Max	n/a	Occur Max	99	
Char Types	n/a	Special Chars	n/a	
Format	n/a	Constraints	n/a	
Code List				
Source	ANSI/NIST ITL 1-2013 (Type-20)			
XML Level 1	biom:SourceImage or biom:SourceVideo		Cardinality	1..1
XML Level 2	biom:TimeSegment		Cardinality	0..99
XML Level 3			Cardinality	
XML Level 4			Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0 Yes DoD EBTS 4.0 Yes

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20.019_1

Time Index

Time Index Start

Mnemonic	TIS			Conditionality	M↑		
				Status	Active		
Description	For Type-20 or Type-21 records containing video or audio, this information item of the Time Index field shall contain the start times of segments within a video or audio file, measured in hh:mm:ss.sss where ss.sss refers to the seconds and milliseconds.						
Field Min	12			Occur Min	1		
Field Max	12			Occur Max	1		
Char Types	NS			Special Chars	n/a		
Format	n/a			Constraints	T = TIS > zero time index (00:00:00.000)		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceImage or biom:SourceVideo				Cardinality	1..1	
XML Level 2	biom:TimeSegment				Cardinality	0..99	
XML Level 3	biom:TimeSegmentStartTimeValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.019_2

Time Index

Time Index End

Mnemonic	TIE			Conditionality	M↑		
				Status	Active		
Description	For Type-20 or Type-21 records containing video or audio, this information item of the Time Index field shall contain the end times of segments within a video or audio file, measured in hh:mm:ss.sss where ss.sss refers to the seconds and milliseconds.						
Field Min	12			Occur Min	1		
Field Max	12			Occur Max	1		
Char Types	NS			Special Chars	n/a		
Format	n/a			Constraints	T = TIE > TIS		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceImage or biom:SourceVideo				Cardinality	1..1	
XML Level 2	biom:TimeSegment				Cardinality	0..99	
XML Level 3	biom:TimeSegmentEndTimeValue				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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20.02

Comment

Mnemonic	COM			Conditionality	O		
				Status	Active		
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.						
Field Min	1			Occur Min	0		
Field Max	126			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom_2:SourceCommentText				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.021

Source Representation Number

Mnemonic	SRN		Conditionality	M	
			Status	Active	
Description	This mandatory field contains a reference number for the source representation stored in this record. Note that the segment references are contained in Field 20.016: Segments (SEG) if they exist. The value for SRN in Field 20.021 corresponds to the SRN that may be referenced as the first information item in the SOR field of other Record Types. The SRN is a positive integer that uniquely refers to a particular instance of Record Type-20. It is an integer, numbered sequentially beginning at one and incremented for each instance of Record Type-20.				
Field Min	1		Occur Min	1	
Field Max	3		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	T = 1 <= SRN <= 255; positive integer	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-20)				
XML Level 1	biom:SourceIdentification/nc:IdentificationID			Cardinality	1..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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20.022

Imagery Capture Date Range Estimate

Mnemonic	ICDR			Conditionality	D		
				Status	Active		
Description	The amount of time (plus and minus) of which SRD is the center point during which the image data could have been originally collected. A time measure indicator followed by 1 or 2 digits. May be concatenated, with larger time units first. Units: Y year, M month, D day						
Field Min	3			Occur Min	0		
Field Max	9			Occur Max	1		
Char Types	AN			Special Chars			
Format				Constraints	YyyMmmDdd		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceImage or biom:SourceVideo or biom:SourceAudio				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.101

Voice Engine Mode Export

Mnemonic	MODEL_EXPORT			Conditionality	0		
				Status	New - Emerging		
Description	Information set returned with the Speaker Candidate Results (SCR) response TOT as a result of the SID - Speaker Identification request TOT. The information set contains results information regarding matches against the stored voice engine model compariso						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:VoiceEngineModelExport				Cardinality	0...1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

20.101_1Voice Engine Mode Export*Model Identifier*

Mnemonic	MODEL_EXPORT_1	Conditionality	O
		Status	New - Emerging
Description	Identifier for the Exported Model File		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	Addition for Voice Type 11		
XML Level 1	dod-ebts:VoiceEngineModelExport	Cardinality	0...*
XML Level 2	dod-ebts:ModelID/nc:IdentificationID	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

20.101_2Voice Engine Mode Export*Model Export Software Version*

Mnemonic	MODEL_EXPORT_2	Conditionality	O
		Status	New - Emerging
Description	Software version of the voice model engine generating the model and running the voice match comparison algorithm.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	Addition for Voice Type 11		
XML Level 1	dod-ebts:VoiceEngineModelExport	Cardinality	0...*
XML Level 2	dod-ebts:softwareVersionText	Cardinality	0...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

20.101_3Voice Engine Mode Export*Model Export Software Name*

Mnemonic	MODEL_EXPORT_3			Conditionality	O		
				Status	New - Emerging		
Description	Name of the software voice model engine generating the model and running the voice match comparison alorithm.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:VoiceEngineModelExport				Cardinality	0...*	
XML Level 2	dod-ebts:SoftwareName				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

20.101_4Voice Engine Mode Export*Model Export Associated Type 2 Reference*

Mnemonic	MODEL_EXPORT_4				Conditionality	O		
					Status	New - Emerging		
Description	Transaction Identification Character (IDC) for the Type 2 record associated with the exported model.							
Field Min	1				Occur Min	0		
Field Max	6				Occur Max	1		
Char Types	U				Special Chars	n/a		
Format	n/a				Constraints	n/a		
Code List								
Source	Addition for Voice Type 11							
XML Level 1	dod-ebts:VoiceEngineModelExport					Cardinality	0...*	
XML Level 2	ansi-nist:Type2CrossReferenceIdentification					Cardinality	0...1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

20.101_5Voice Engine Mode Export*Model Export Comment*

Mnemonic	MODEL_EXPORT_5				Conditionality	0		
					Status	New - Emerging		
Description	Comment Text Regarding Model Export							
Field Min	1				Occur Min	0		
Field Max	255				Occur Max	1		
Char Types	U				Special Chars	n/a		
Format	n/a				Constraints	n/a		
Code List								
Source	Addition for Voice Type 11							
XML Level 1	dod-ebts:VoiceEngineModelExport					Cardinality	0...*	
XML Level 2	nc:CommentText					Cardinality	0...1	
XML Level 3						Cardinality		
XML Level 4						Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes	

20.101_6Voice Engine Mode Export*Model Export Software Vendor*

Mnemonic	MODEL_EXPORT_6				Conditionality	O	
					Status	New - Emerging	
Description	Text that specifies the software code vendor name						
Field Min	1				Occur Min	0	
Field Max	50				Occur Max	1	
Char Types	U				Special Chars	n/a	
Format	n/a				Constraints	n/a	
Code List							
Source	Addition for Voice Type 11						
XML Level 1	dod-ebts:VoiceEngineModelExport					Cardinality	0...*
XML Level 2	dod-ebts:SoftwareVendorNameText					Cardinality	0...1
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

20.902Annotated Information

Mnemonic	ANN			Conditionality	M↑		
				Status	Active		
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:ProcessAnnotation				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.902_0Annotated Information*Subfields: Repeating sets of information items*

Mnemonic	ANN_0			Conditionality	D		
				Status	New-Active		
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:ProcessAnnotation				Cardinality	1..*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.902_1Annotated Information*Greenwich Mean Time*

Mnemonic	GMT	Conditionality	M↑
		Status	Active
Description	This information item is the Greenwich Mean Time (GMT) when the processing occurred. The data is formatted as YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. This time is independent of the actual time zone where the time and date is recorded.		
Field Min	dependent on encoding	Occur Min	1
Field Max	dependent on encoding	Occur Max	1
Char Types	AN	Special Chars	None
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:ProcessAnnotation	Cardinality	1..*
XML Level 2	biom:ProcessUTCDate/nc:DateTime	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

20.902_2Annotated Information*Processing Algorithm Name / Version*

Mnemonic	NAV	Conditionality	M↑
		Status	Active
Description	This information item shall contain text identifying the name and version of the processing algorithm, application, procedure, or workstation		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:ProcessAnnotation	Cardinality	1..*
XML Level 2	biom:ProcessName	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Annotated Information

Algorithm Owner

Mnemonic	OWN	Conditionality	M↑
		Status	Active
Description	This information item shall contain an unformatted text string of up to 64 characters with the contact information for the organization that owns the processing algorithm or latent workstation. Where there is no 'algorithm owner,' enter N/A.		
Field Min	1	Occur Min	1
Field Max	64	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:ProcessAnnotation	Cardinality	1..*
XML Level 2	biom:ProcessOwnerText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.902_4

Annotated Information

Process Description

Mnemonic	PRO	Conditionality	M↑
		Status	Active
Description	This information item field shall contain text describing a process or procedure applied to the sample in this Type-9 record.		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:ProcessAnnotation	Cardinality	1..*
XML Level 2	biom:ProcessDescriptionText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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20.903

Device Unique Identifier

Mnemonic	DUI	Conditionality	O
		Status	Active
Description	The DUI shall contain a string uniquely identifying the device or source of the data. This field shall be one of the following: a Host PC MAC address (identified by the first character "M"), a Host PC processor ID (identified by the first character "P"). since it is available in the Make / Model / Serial Number field.		
Field Min	13	Occur Min	0
Field Max	16	Occur Max	1
Char Types	ANS	Special Chars	Any
Format	n/a	Constraints	First character = M or P
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureDeviceIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.904

Make/Model/Serial Number

Mnemonic	MMS	Conditionality	O
		Status	Active
Description	The MMS contains the make, model and serial number for the capture device. It shall consist of three information items. Each information item shall be 1 to 50 characters. Unknown information may be indicated with the value "0." Any or all information items may indicate that information is unknown with the value "0".		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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20.904_1

Make/Model/Serial Number

Make

Mnemonic	MAK			Conditionality	M↑		
				Status	Active		
Description	The name of the manufacturer for the capture device.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail				Cardinality	1...1	
XML Level 2	biom:CaptureDeviceMakeText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.904_2

Make/Model/Serial Number

Model

Mnemonic	MOD			Conditionality	M↑		
				Status	Active		
Description	The model number for the capture device.						
Field Min	1			Occur Min	0		
Field Max	50			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail				Cardinality	1...1	
XML Level 2	biom:CaptureDeviceModelText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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20.904_3

Make/Model/Serial Number

Serial Number

Mnemonic	SER	Conditionality	M↑
		Status	Active
Description	The serial number for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureDeviceSerialNumberText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.993

Source Agency Name

Mnemonic	SAN	Conditionality	0
		Status	Active
Description	This is an optional field. It may contain up to 125 Unicode characters. It is the name of the agency referenced in Field xx.004: Source agency / SRC for record types 9-99.		
Field Min	1	Occur Min	0
Field Max	125	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	nc:OrganizationName	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-20: Source Representation

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20.994

External File Reference

Mnemonic	EFR		Conditionality	D	
			Status	Active	
Description	This conditional field shall be used to enter the URL / URI or other unique reference to a storage location for all associated context files EXCEPT 2D still images. If this field is used, Field 21.999: Associated context data (DATA) shall not be set. If this field is used, Field 20.999 shall not be set. However, one of the two fields shall be present in all instances of this record type. A non-URL reference might be similar to:“Case 2009:1468 AV Tape 5”. It is highly recommended that the user state the format of the external file in Field 20.020: Comment / COM.				
Field Min	1		Occur Min	0	
Field Max	200		Occur Max	1	
Char Types	U		Special Chars	n/a	
Format	n/a		Constraints	None	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-20)				
XML Level 1	biom:SourceExternalAnalogFileReferenceText or biom:SourceExternalFileReferenceText or biom:SourceExternalDigitalImageReferenceText or biom:SourceExternalDigitalAudioReferenceText or biom:SourceExternalDigitalVideoReferenceText			Cardinality	0..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

20.995

Associated Context

Mnemonic	ASC			Conditionality	O		
				Status	Active		
Description	This optional field refers to one or more Type 21 Records with the same ACN. Type 21 Records contain images that are NOT used to derive the biometric data in Field 13.999: Latent friction ridge image (DATA) but that may be relevant to the collection of that data, such as general scenes of the area where a latent print was found.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:AssociatedContext				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-20: Source Representation

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20.995_0

Associated Context

Subfields: Repeating sets of information items

Mnemonic	ASC_0			Conditionality	M↑		
				Status	New-Active		
Description	This optional field refers to one or more Type 21 Records with the same ACN. Type 21 Records contain images that are NOT used to derive the biometric data in Field 13.999: Latent friction ridge image (DATA) but that may be relevant to the collection of that data, such as general scenes of the area where a latent print was found.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	255		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:AssociatedContext				Cardinality	0..255	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.995_1

Associated Context

Associated Context Number

Mnemonic	ACN			Conditionality	M↑		
				Status	Active		
Description	The first information item for the Associated Context field for a particular Record Type-21. This is mandatory for each Field xx.995, when the field is used. It contains an index to a particular instance of a Type-21 record in the transaction. This same index value appears in the appropriate instance of Record Type-21 as Field 21.021: Associated context number (CAN). The value of the CAN shall be a sequentially assigned a positive integer starting from one and incremented by one, not to exceed 255.						
Field Min	1			Occur Min	1		
Field Max	3			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	1 <= ACN <= 255; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:AssociatedContext				Cardinality	0..255	
XML Level 2	biom:ContextIdentification				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.995_2Associated ContextAssociated Segment Position

Mnemonic	ASP			Conditionality	0↑		
				Status	Active		
Description	The first information item is the associated segment position (ASP). This provides a unique index to a segmentation.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	n/a		
Format	n/a			Constraints	1 <= ASP <= 99; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:AssociatedContext				Cardinality	0..255	
XML Level 2	biom:ImageSegmentIdentification				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.996Hash

Mnemonic	HAS		Conditionality	0	
			Status	Active	
Description	Optional field xx.996, is designed for use in Record types 10 and above with a Field xx.999 storing the biometric data. It is comprised of 64 characters representing hexadecimal values. Thus, each character may be a digit from “0” to “9” or a letter “A” through “F”. See the latest version of the Federal Information Processing Standard 180, Secure Hash Standard for information on computing SHA-256 hashes. At the time of this standard’s publication, FIPS 180-37 had been published. It is also possible to use Field xx.996 to contain the hash for data stored externally, which is referenced in Field 20.994: External file reference (EFR) and/or Field 21.994: External file reference (EFR). The ability to store files externally is new to this version of the standard, and is only implemented for the two new record types referred to here. Use of the hash enables the receiver of the data to perform quick searches of large databases to determine if the data already exist in the database. It is not intended as an information assurance check. That is handled by Record Type-98: Information assurance record.				
Field Min	64		Occur Min	0	
Field Max	64		Occur Max	1	
Char Types	H		Special Chars	None	
Format	n/a		Constraints	None	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-20)				
XML Level 1	biom_2:ImageHashValue			Cardinality	0..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

20.998Geographic Sample Acquisition Location

Mnemonic	GEO			Conditionality	O
				Status	Active
Description	This optional field contains the location where the iris sample/original source/context information was acquired – not where it is stored.				
Field Min	n/a			Occur Min	1
Field Max	n/a			Occur Max	1
Char Types	n/a			Special Chars	n/a
Format	n/a			Constraints	n/a
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-20)				
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail			Cardinality	1...1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

20.998_01Geographic Sample Acquisition LocationUniversal Time Entry

Mnemonic	UTE		Conditionality	O↑	
			Status	Active	
Description	The coordinated universal time (UTC) where the biometric sample was collected. This time is independent of the actual time zone where the time and date is recorded. The date is YYYYMMDDhhmmssZ, where the Z is indicates the zone description of 0 hours.				
Field Min	dependent upon encoding		Occur Min	0	
Field Max	dependent upon encoding		Occur Max	1	
Char Types	AN		Special Chars	None	
Format	n/a		Constraints		
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-20)				
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail			Cardinality	1...1
XML Level 2	biom:CaptureLocation			Cardinality	0..1
XML Level 3	biom:CaptureUTCDateTime/nc:DateTime			Cardinality	0...1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

20.998_02Geographic Sample Acquisition Location*Latitude Degree Value*

Mnemonic	LTD	Conditionality	D
		Status	Active
Description	The second information item is latitude degree value (LTD). This is a value that specifies the degree of latitude. The value shall be between -90 (inclusive) and +90 (inclusive). The degrees may be expressed as an integer (without a decimal) or a real number including decimals. If decimals are present, then minutes and seconds shall be empty. Examples: Buenos Aires, Argentina: -34 (with minutes LTM = 36) NIST, Gaithersburg, Maryland: 39.137627 (no LTM or LTS) If sample collection time is unknown, set it to "00000000000000Z."		
Field Min	1	Occur Min	0
Field Max	9	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	-90 <= LTD <= 90
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LatitudeDegreeValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.998_03Geographic Sample Acquisition Location*Latitude Minute Value*

Mnemonic	LTM	Conditionality	D
		Status	Active
Description	This information item is latitude minute value (LTM). This is a value that specifies a minute of a degree. The value shall be between 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall be empty. Thus, the allowed special character is a period. The minute value can be empty, even if the degree value is an integer. LTM and LGM are co-conditional, so they shall both be present if either is present. However, latitude degree value / LTD and longitude degree value / LGD are co-conditional, so they shall both be present if either is present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	0 <= LTM < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LatitudeMinuteValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.998_04Geographic Sample Acquisition Location*Latitude Second Value*

Mnemonic	LTS	Conditionality	D
		Status	Active
Description	The fourth information item is the latitude second value (LTS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer. Further, "minutes" values LTM and LGM can only be present if their corresponding "degrees" values are present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	None
Format	n/a	Constraints	0 <= LTS < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LatitudeSecondValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.998_05Geographic Sample Acquisition Location*Longitude Degree Value*

Mnemonic	LGD	Conditionality	D
		Status	Active
Description	The fifth information item is the longitude degree value (LGD). It is a value that specifies the degree of a longitude. The value shall be between -180 (inclusive) and +180 (inclusive). If LTD is present, then LGD shall be present. The degrees may be expressed as whole numbers (without a decimal) or real numbers including decimals. If decimals are present, then minutes and seconds are empty. Examples: Buenos Aires, Argentina: -58 (with minutes LGM = 22), NIST, Gaithersburg, Maryland: -77.216032 (no LGM or LGS) Also, "seconds" values LTS and LGS can only be present if their corresponding "minutes" value is present.		
Field Min	1	Occur Min	0
Field Max	10	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	-180 <= LGD <= 180
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeDegreeValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.998_06Geographic Sample Acquisition Location*Longitude Minute Value*

Mnemonic	LGM	Conditionality	D
		Status	Active
Description	The sixth information item is the longitude minute value (LGM). It is a value that specifies a minute of a degree. The value shall be from 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall not appear. The minute value is empty, even if the degree value is an integer. If LTM is present, then LGM shall be present. However, latitude degree value / LTD and longitude degree value / LGD are co-conditional, so they shall both be present if either is present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	0 <= LGM < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeMinuteValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.998_07Geographic Sample Acquisition Location*Longitude Second Value*

Mnemonic	LGS	Conditionality	D
		Status	Active
Description	The seventh information item is the longitude second value (LGS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer. If LTS is present, then LGS shall be present. Further, "minutes" values LTM and LGM can only be present if their corresponding "degrees" values are present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	None
Format	n/a	Constraints	0 <= LGS < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeSecondValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.998_08Geographic Sample Acquisition Location*Elevation*

Mnemonic	ELE	Conditionality	O
		Status	Active
Description	The eighth information item is elevation (ELE). It is expressed in meters. It is a numeric value. It is between -422 meters (Dead Sea) and 8848 meters (Mount Everest). Allowed special characters are the negative sign and the period. Also, "seconds" values LTS and LGS can only be present if their corresponding "minutes" value is present.		
Field Min	1	Occur Min	1
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Minus Sign,Period
Format	n/a	Constraints	422.000 <= ELE <= 8848.000; real number
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationGeographicElevation	Cardinality	0..1
XML Level 4	nc:MeasurePoint	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.998_09Geographic Sample Acquisition Location*Geodetic Datum Code*

Mnemonic	GDC	Conditionality	O
		Status	Active
Description	The ninth information item is the geodetic datum code (GDC11). It is an alphanumeric value of 3 to 6 characters in length. This information item is used to indicate which coordinate system was used to represent the values in information items 2 through 7. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values.		
Field Min	3	Occur Min	0
Field Max	6	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	GEOGRAPHIC COORDINATE DATUM CODE		
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	biom:GeodeticDatumCoordinateSystemCode or biom:GeodeticDatumCoordinateSystemName	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.998_10Geographic Sample Acquisition Location*Geographic Coordinate Universal Transverse Mercator Zone*

Mnemonic	GCM	Conditionality	D
		Status	Active
Description	It is an alphanumeric value of 2 to 3 characters. This is a one or two digit UTM zone number followed by the 8 degree latitudinal band designator (which is a single letter).		
Field Min	2	Occur Min	0
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	One or two digits followed by a single letter
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 4	nc:UTMGridZoneID	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.998_11Geographic Sample Acquisition Location*Geographic Coordinate Universal Transverse Mercator Easting*

Mnemonic	GCE	Conditionality	D
		Status	Active
Description	The eleventh information item is the geographic coordinate universal transverse Mercator easting (GCE). It is an integer of 1 to 6 digits.		
Field Min	1	Occur Min	0
Field Max	6	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 4	nc:UTMEastingValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

20.998_12Geographic Sample Acquisition Location*Geographic Coordinate Universal Transverse Mercator Northing*

Mnemonic	GCN	Conditionality	D
		Status	Active
Description	The twelfth information item is the geographic coordinate universal transverse Mercator northing (GCN). It is an integer of 1 to 8 digits.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 4	nc:UTMNorthingValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.998_13Geographic Sample Acquisition Location*Geographic Reference Text*

Mnemonic	GRT	Conditionality	O
		Status	Active
Description	It is a free form text describing a street address or other physical location (such as 'Corner of Washington and Madison, Geneva, NY').		
Field Min	1	Occur Min	0
Field Max	150	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:GeographicLocationText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

20.998_14Geographic Sample Acquisition Location*Geographic Coordinate Other System Identifier*

Mnemonic	OSI		Conditionality	O	
			Status	Active	
Description	A fourteenth optional information item geographic coordinate other system identifier (OSI) allows for other coordinate systems. This information items specifies the system identifier. It is up to 10 characters in length. Examples are: • MGRS (Military Grid Reference System), • USNG (United States National Grid), • GARS (Global Area Reference System), • GEOREF (World Geographic Reference), • LANDMARK landmark (e.g. hydant) and position relative to the landmark.				
Field Min	1		Occur Min	0	
Field Max	10		Occur Max	1	
Char Types	U		Special Chars	n/a	
Format	n/a		Constraints	None	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-20)				
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail			Cardinality	1...1
XML Level 2	biom:CaptureLocation			Cardinality	0..1
XML Level 3	biom:LocationAlternateGeographicSystemValue			Cardinality	0..1
XML Level 4	biom:GeographicLocationSystemName			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

20.998_15Geographic Sample Acquisition Location*Geographic Coordinate Other System Value*

Mnemonic	OCV			Conditionality	D		
				Status	Active		
Description	A fifteenth optional information item, is the geographic coordinate other system value (OCV). It shall only be present if OSI is present in the record. It can be up to 126 characters in length. If OSI is LANDMARK, OCV is free text and may be up to 126 characters. For details on the formatting of OCV for the other coordinate systems shown in OSI as examples, see http://earth-info.nga.mil/GandG/coordsys/grids/referencesys.html .						
Field Min	1			Occur Min	1		
Field Max	126			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-20)						
XML Level 1	biom:SourceImage/biom:ImageCaptureDetail or biom:SourceVideo/biom:BiometricCaptureDetail or biom_:SourceAudio/biom:BiometricCaptureDetail				Cardinality	1...1	
XML Level 2	biom:CaptureLocation				Cardinality	0..1	
XML Level 3	biom:LocationAlternateGeographicSystemValue				Cardinality	0..1	
XML Level 4	biom:GeographicLocationText				Cardinality	0...1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-20: Source Representation

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20.999

Source Representation Data

Mnemonic	DATA	Conditionality	D
		Status	Active
Description	A fifteenth optional information item, is the geographic coordinate other system value / OCV. It shall only be present if OSI is present in the record. It can be up to 126 characters in length. It shall only be present if OSI is present in the record and OSI is set to LANDMARK. OCV is free text and may be up to 126 characters.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	B	Special Chars	None
Format	n/a	Constraints	
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-20)		
XML Level 1	nc:Base64BinaryObject	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

21.001

Record Header

Mnemonic	LEN	Conditionality	M
		Status	Active
Description	The record header appears as the first field (xx.001) in each Record Type. It contains information particular to the encoding format chosen, in order to enable proper reading of the record. In Traditional encoding, this field contains the record length in bytes (including all information separators). In NIEM-conformant XML encoding, this field contains the RecordCategoryCode, which is the numeric representation of the Record Type.		
Field Min	T = 4; X = 1	Occur Min	1
Field Max	T = 8; X = 2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	nist-itl:RecordCategoryCode	Cardinality	1...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

21.002

Information Designation Character

Mnemonic	IDC	Conditionality	M
		Status	Active
Description	Each of the records present in a transaction, with the exception of the Type-1 record, shall include a field (xx.002) containing the information designation character / IDC. The value of the IDC shall be a sequentially assigned positive integer starting from zero and incremented by one up to a maximum of 99. IDC references are stated in Type-1 Field 1.003 Transaction content (CNT) and shall be used to relate information items in the CNT field of the Type-1 record to the other records in the transaction. Two or more records may share a single IDC solely to identify and link together records that pertain to different representations of the same biometric trait.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= IDC <= 99; integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	nist-itl:ImageReferenceIdentification/nc:IdentificationID		Cardinality1...1
XML Level 2			Cardinality
XML Level 3			Cardinality
XML Level 4			Cardinality
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
			DoD EBTS 4.0
			Yes

21.004

Source Agency

Mnemonic	SRC			Conditionality	M		
				Status	Active		
Description	This is the identifier of the agency that actually created the record and supplied the information contained in it.						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:ContextImage or biom_2:ContextAudio or biom_2:ContextVideo				Cardinality	1...1	
XML Level 2	biom_2:ImageCaptureDetail or biom_2:BiometricCaptureDetail				Cardinality	0...1	
XML Level 3	nc:OrganizationIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.005Associated Context Date

Mnemonic	ACD			Conditionality	0		
				Status	Active		
Description	This optional field shall contain the date and time that the context representation contained in the record was captured. It may not be possible to know the exact date of imagery capture. In such a case, specify the date to the level known and fill the rest of the date with zeros. Field 21.022: Imagery capture date range estimate/ ICDR should be used in conjunction with this field.						
Field Min	12			Occur Min	0		
Field Max	12			Occur Max	1		
Char Types	N			Special Chars	None		
Format	YYYYMMDDhhmm			Constraints	YYYYMMDDhhmm		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:ContextImage or biom_2:ContextAudio or biom_2:ContextVideo					Cardinality	1...1
XML Level 2	biom_2:ImageCaptureDetail or biom_2:BiometricCaptureDetail					Cardinality	0...1
XML Level 3	biom_2:CaptureDate/nc:DateTime					Cardinality	0..1
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.006Medical Device Information

Mnemonic	MDI		Conditionality	0	
			Status	Active	
Description	This field is designed to allow the transmission of information concerning medically implanted devices or devices used by an individual externally that may be discovered in or on unknown deceased and may assist in the person's identification. Each subfield is comprised of six information items, any combination of which may be entered. Each subfield describes a single device (such as a pacemaker or an artificial knee).				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-21)				
XML Level 1	biom_2:MedicalDeviceInformation			Cardinality	0..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

21.006_0Medical Device Information*Repeating Subfields*

Mnemonic	MDI_0			Conditionality	M↑		
				Status	Active		
Description	This field is designed to allow the transmission of information concerning medically implanted devices or devices used by an individual externally that may be discovered in or on unknown deceased and may assist in the person's identification. Each subfield is comprised of six information items, any combination of which may be entered. Each subfield describes a single device (such as a pacemaker or an artificial knee).						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:MedicalDeviceInformation				Cardinality	0..*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

21.006_1Medical Device Information*Type of Device*

Mnemonic	TYP			Conditionality	O↑		
				Status	Active		
Description	The first information item is the type of device / TYP. It is optional. A typical entry may be 'metal plate in right arm' or 'external leg brace for left leg'.						
Field Min	1			Occur Min	0		
Field Max	500			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:MedicalDeviceInformation				Cardinality	0..*	
XML Level 2	biom_2:DeviceTypeText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

21.006_2Medical Device Information*Device Manufacturer*

Mnemonic	MFG	Conditionality	O↑
		Status	Active
Description	The second information item is the device manufacturer / MFG. It is optional.		
Field Min	1	Occur Min	0
Field Max	500	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:MedicalDeviceInformation	Cardinality	0..*
XML Level 2	biom_2:DeviceManufacturerText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

21.006_3Medical Device Information*Device Make*

Mnemonic	MAK	Conditionality	O↑
		Status	Active
Description	The third information item is the device make / MAK. It is optional.		
Field Min	1	Occur Min	0
Field Max	500	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:MedicalDeviceInformation	Cardinality	0..*
XML Level 2	biom_2:CaptureDeviceMakeText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

21.006_4Medical Device Information*Device Model*

Mnemonic	MOD	Conditionality	O↑
		Status	Active
Description	The fourth information item is the device model / MOD. It is optional.		
Field Min	1	Occur Min	0
Field Max	500	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:MedicalDeviceInformation	Cardinality	0..*
XML Level 2	biom_2:CaptureDeviceModelText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

21.006_5Medical Device Information*Device Serial Number*

Mnemonic	SER	Conditionality	O↑
		Status	Active
Description	The fifth information item is the device serial number / SER. It is optional.		
Field Min	1	Occur Min	0
Field Max	500	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:MedicalDeviceInformation	Cardinality	0..*
XML Level 2	biom_2:CaptureDeviceSerialNumberText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

21.006_6Medical Device Information*Comments*

Mnemonic	COM			Conditionality	0↑		
				Status	Active		
Description	The sixth information item is optional. It is any comment / COM concerning the device.						
Field Min	1			Occur Min	0		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:MedicalDeviceInformation				Cardinality	0..*	
XML Level 2	nc:CommentText				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

21.015Associated Context Format

Mnemonic	AFT		Conditionality	M	
			Status	Active	
Description	This is a mandatory field comprised of two information items. The first information item is mandatory. It is file type / FTY. If the associated context file is a digital file, this shall contain the suffix indicating the file type. If it is an analog file, enter 'ANALOG'. For digital data stored in other formats (such as digital tape), enter 'OTHER'. The second information item is decoding instructions / DEI. It is optional and contains free text up to 1000 characters.				
Field Min	n/a		Occur Min	1	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-21)				
XML Level 1	biom_2:ContextFileFormat			Cardinality	1..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

21.015_1Associated Context Format*File Type*

Mnemonic	FTY	Conditionality	M
		Status	Active
Description	The first information item is mandatory. It is file type / FTY. If the source representation is a digital file, this shall contain the suffix indicating the file type (such as JPG). If it is an analog file, enter 'ANALOG'. For digital data stored in other formats (such as digital tape), enter 'OTHER'.		
Field Min	3	Occur Min	1
Field Max	6	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextFileFormat	Cardinality	1..1
XML Level 2	biom_2:ContextFileCategoryText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.015_2Associated Context Format*Decoding Instructions*

Mnemonic	DEI	Conditionality	O
		Status	Active
Description	The second information item is decoding instructions / DEI. It is optional and contains free text up to 1000 characters.		
Field Min	1	Occur Min	0
Field Max	1000	Occur Max	1
Char Types	U	Special Chars	n/a
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextFileFormat	Cardinality	1..1
XML Level 2	biom_2:ContextFileDecodingInstructionsText	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.016Segments

Mnemonic	SEG			Conditionality	0		
				Status	Active		
Description	This optional field shall consist of a subfield for each segment to be defined. Each subfield consists of a series of information items.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:ContextImage				Cardinality	1..1	
XML Level 2	biom_2:ImageSegment				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.016_0Segments*Repeating Subfields*

Mnemonic	SEG_0			Conditionality	M↑		
				Status	Active		
Description	This optional field shall consist of a subfield for each segment to be defined. Each subfield consists of a series of information items.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	99		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:ContextImage				Cardinality	1..1	
XML Level 2	biom_2:ImageSegment				Cardinality	0..99	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

21.016_1Segments*Associated Segment Position*

Mnemonic	ASP			Conditionality	M ↑		
				Status	Active		
Description	The first information item is the associated segment position / ASP. This provides a unique index to a segmentation.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	1 <= ASP <= 99; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:ContextImage				Cardinality	1..1	
XML Level 2	biom_2:ImageSegment				Cardinality	0..99	
XML Level 3	biom_2:ImageSegmentIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.016_2Segments*Internal File Reference Pointer*

Mnemonic	IPT		Conditionality	M↑	
			Status	Active	
Description	The second information item is the internal file reference pointer/ IPT. It is set to 0 if the source representation is a single file. If the external file referenced in Field 20.994: External file reference / EFR or Field 21.994: External file reference / EFR is a PDF, video, or presentation file, or has multiple locations where a sample may be located, this information item is the reference to the particular instance, such as page, video frame, or slide number used to derive the image transmitted in other record types. If a particular frame is chosen and there is no further image segmentation needed, the following information items shall not be used. This entry is free text with any special characters are allowed.				
Field Min	1		Occur Min	1	
Field Max	15		Occur Max	1	
Char Types	ANS		Special Chars	n/a	
Format	n/a		Constraints	None	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-21)				
XML Level 1	biom_2:ContextImage			Cardinality	1..1
XML Level 2	biom_2:ImageSegment			Cardinality	0..99
XML Level 3	biom_2:ImageSegmentInternalIdentification/nc:IdentificationID			Cardinality	1..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

21.016_3Segments*Number of Points*

Mnemonic	NOP			Conditionality	0↑		
				Status	Active		
Description	Specifies the number of vertices.						
Field Min	1			Occur Min	0		
Field Max	2			Occur Max	99		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	3 <= NOP <= 99; positive integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:ContextImage				Cardinality	1..1	
XML Level 2	biom_2:ImageSegment				Cardinality	0..99	
XML Level 3	biom_2:PositionPolygonVertex				Cardinality	0..99	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.016_4Segments*Horizontal Point Offset*

Mnemonic	HPO			Conditionality	D		
				Status	Active		
Description	The pixel counts to the right.						
Field Min	1			Occur Min	1		
Field Max	5			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	non-negative integer		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:ContextImage				Cardinality	1..1	
XML Level 2	biom_2:ImageSegment				Cardinality	0..99	
XML Level 3	biom_2:PositionPolygonVertex				Cardinality	0..99	
XML Level 4	biom_2:PositionHorizontalCoordinateValue				Cardinality	1..1	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.016_5Segments*Vertical Point Offset*

Mnemonic	VPO	Conditionality	D
		Status	Active
Description	The pixel counts down from the origin.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	non-negative integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage	Cardinality	1..1
XML Level 2	biom_2:ImageSegment	Cardinality	0..99
XML Level 3	biom_2:PositionPolygonVertex	Cardinality	0..99
XML Level 4	biom_2:PositionVerticalCoordinateValue	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

21.019Time Index

Mnemonic	TIX	Conditionality	D
		Status	Active
Description	This is a conditional field. If the record contains video or audio, it shall contain the start and end times of segments within the file. For records containing video or audio, this field shall contain two information items, time index start /TIS and time index end / TIE for the start and end times of segments within a video or audio file. This field is comprised of one or more subfields. Each repeating subfield corresponds to a single segment, with a starting and end time as separate information items.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:TimeSegment	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

21.019_0Time Index*Repeating Subfields*

Mnemonic	TIX_0			Conditionality	M ↑		
				Status	Active		
Description	This is a conditional field. If the record contains video or audio, it shall contain the start and end times of segments within the file. For records containing video or audio, this field shall contain two information items, time index start /TIS and time index end / TIE for the start and end times of segments within a video or audio file. This field is comprised of one or more subfields. Each repeating subfield corresponds to a single segment, with a starting and end time as separate information items.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	99		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:TimeSegment				Cardinality	0..99	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

21.019_1Time Index*Time Index Start*

Mnemonic	TIS			Conditionality	M↑		
				Status	Active		
Description	For records containing video or audio, this information item of the Time Index field shall contain the start times of segments within a video or audio file, measured in hh:mm:ss.sss where ss.sss refers to the seconds and milliseconds.						
Field Min	12			Occur Min	1		
Field Max	12			Occur Max	1		
Char Types	NS			Special Chars	n/a		
Format	n/a			Constraints	TIS >= 0 time index (00:00:00.000)		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:TimeSegment				Cardinality	0..99	
XML Level 2	biom_2:TimeSegmentStartTimeValue				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.019_2Time Index*Time Index End*

Mnemonic	TIE			Conditionality	M ↑		
				Status	Active		
Description	For records containing video or audio, this information item of the Time Index field shall contain the end times of segments within a video or audio file, measured in hh:mm:ss.sss where ss.sss refers to the seconds and milliseconds.						
Field Min	12			Occur Min	1		
Field Max	12			Occur Max	1		
Char Types	NS			Special Chars	n/a		
Format	n/a			Constraints	TIE > TIS		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:TimeSegment				Cardinality	0..99	
XML Level 2	biom_2:TimeSegmentEndTimeValue				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.02Comment

Mnemonic	COM			Conditionality	O		
				Status	Active		
Description	The optional Comment field appears in many record types and may be used to insert free text information. It is not reserved exclusively for log-related information but has historically often been used for this purpose. It is limited to a maximum of 126 characters. This maximum size was established in order to maintain consistency across encodings. The maximum size differed in the 2007 and 2008 versions of the standard.						
Field Min	1			Occur Min	0		
Field Max	126			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:ContextCommentText				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.021Associated Context Number

Mnemonic	ACN		Conditionality	M	
			Status	Active	
Description	This mandatory field contains a reference number for the context representation stored in this record. Note that the segment references are contained in Field 21.016: Segments / SEG, if they exist. This number corresponds to the ACN that may be referenced as the first information item in the ASC field of other Record Types. The ACN is a positive integer that uniquely refers to a particular instance of Record Type-21. It is a positive integer, numbered sequentially beginning at one and incremented for each instance of Record Type-21.				
Field Min	1		Occur Min	1	
Field Max	3		Occur Max	1	
Char Types	N		Special Chars	None	
Format	n/a		Constraints	1 <= ACN <= 255; positive integer	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-21)				
XML Level 1	biom_2:ContextIdentification/nc:IdentificationID			Cardinality	1..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

21.022Image Capture Date Range Estimate

Mnemonic	ICDR		Conditionality	D	
			Status	Active	
Description	This is the amount of time (plus and minus) of which ACD is the center point during which the image data could have been originally collected. It is entered in the format as YyyMmmDdd. It is possible to enter only a year, month and/or day range, such as D meaning that the actual date of collection is estimated to be 5 days plus or minus from that specified in ACD. Leading zeros need not be entered.				
Field Min	3		Occur Min	0	
Field Max	9		Occur Max	1	
Char Types	AN		Special Chars	None	
Format	n/a		Constraints	Time measure indicator followed by 1 or 2 digits. May be concatenated, with larger time units first. Units: Y year, M Month, D Day	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-21)				
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail			Cardinality	1...1
XML Level 2	biom:ImageCaptureDateEstimateRange			Cardinality	0...1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No
				DoD EBTS 4.0	Yes

21.046

Image Subject Condition

Mnemonic	SUB			Conditionality	0		
				Status	Active		
Description	This field is optional. There may be different values for SUB in different instances of Type-14 records. For example, some images may have been acquired antemortem, while others were acquired post-mortem. This field describes the condition of the subject						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:SubjectExistentialDetails				Cardinality	1..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

21.046_1

Image Subject Condition

Subject Status Code

Mnemonic	SSC			Conditionality	M↑		
				Status	Active		
Description	This information item is mandatory if this field is present. It is subject status code / SSC.						
Field Min	1			Occur Min	1		
Field Max	1			Occur Max	1		
Char Types	A			Special Chars	None		
Format	n/a			Constraints	SSC = X, A, or D		
Code List	SUBJECT STATUS CODES						
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:SubjectExistentialDetails				Cardinality	1...1	
XML Level 2	biom_2:SubjectExistentialStatusCode				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

21.046_2Image Subject Condition*Subject Body Status Code*

Mnemonic	SBSC	Conditionality	D
		Status	Active
Description	This information item shall be entered if and only if SSC is D. It is subject body status code / SBSC. Its purpose is to indicate whether the information relates to an entire corpse or a separate body part.		
Field Min	1	Occur Min	1
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	SBSC = 1 or 2
Code List	SUBJECT BODY STATUS CODES		
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:SubjectExistentialDetails	Cardinality	1...1
XML Level 2	biom_2:SubjectBodyStatusCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

21.046_3Image Subject Condition*Subject Body Class Code*

Mnemonic	SBCC	Conditionality	D
		Status	Active
Description	This information item shall be entered if and only if SSC is D. It is subject body class code/ SBCC.		
Field Min	1	Occur Min	0
Field Max	1	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	SBCC = 1 or 2
Code List	SUBJECT BODY CLASS CODES		
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:SubjectExistentialDetails	Cardinality	1...1
XML Level 2	biom_2:SubjectBodyClassCode	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

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21.047

Capture Organization Name

Mnemonic	CON	Conditionality	O
		Status	Active
Description	This field is optional. Note that this can be different from the agency entered in Field 21.004: Source agency / SRC and Field 21.993: Source agency name / SAN. SRC and SAN describe the agency that created the record. Since the record may have been forward another agency to the final destination, Field 1.008: Originating agency identifier / ORI is used to indicate the transmitting organization. In many implementation domains, there are a limited number of transmission organizations that can send data. Therefore, the agency listed in SRC may send the transaction to another location that has access rights to the final destination. This intermediary may add information to the transaction, as well. The final transmitting organization code is listed in Field 1.008: Originating agency identifier / ORI. Its name may be entered in Originating agency name / OAN in Field 1.017: Agency names / ANM.		
Field Min	1	Occur Min	0
Field Max	1000	Occur Max	1
Char Types	U	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage or biom_2:ContextAudio or biom_2:ContextVideo	Cardinality	1...1
XML Level 2	nc:OrganizationUnitName	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

21.902

Annotated Information

Mnemonic	ANN	Conditionality	O
		Status	Active
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.		
Field Min	n/a	Occur Min	0
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ProcessAnnotation	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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21.902_0

Annotated Information

Repeating Subfields

Mnemonic	ANN_0			Conditionality	M↑		
				Status	Active		
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:ProcessAnnotation				Cardinality	0..*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

21.902_1

Annotated Information

Greenwich Mean Time

Mnemonic	GMT			Conditionality	M↑		
				Status	Active		
Description	This information item is the Greenwich Mean Time (GMT) when the processing occurred. The data is formatted as YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. This time is independent of the actual time zone where the time and date is recorded.						
Field Min	15			Occur Min	1		
Field Max	15			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding			Constraints	Dependent upon encoding		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:ProcessUTCDate/nc:DateTime				Cardinality	1..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.902_2Annotated Information*Processing Algorithm Name / Version*

Mnemonic	NAV			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain text identifying the name and version of the processing algorithm, application, procedure, or workstation						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:ProcessName				Cardinality	1..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.902_3Annotated Information*Algorithm Owner*

Mnemonic	OWN			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain an unformatted text string of up to 64 characters with the contact information for the organization that owns the processing algorithm or latent workstation. Where there is no 'algorithm owner,' enter N/A.						
Field Min	1			Occur Min	1		
Field Max	64			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom_2:ProcessOwnerText				Cardinality	1..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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21.902_4

Annotated Information

Process Description

Mnemonic	PRO	Conditionality	M↑
		Status	Active
Description	This information item field shall contain text describing a process or procedure applied to the sample in this Type-9 record.		
Field Min	1	Occur Min	1
Field Max	255	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ProcessDescriptionText	Cardinality	1..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.993

Source Agency Name

Mnemonic	SAN	Conditionality	0
		Status	Active
Description	This is an optional field. It may contain up to 125 Unicode characters. It is the name of the agency referenced in Field xx.004: Source agency / SRC for record types 9-99.		
Field Min	1	Occur Min	0
Field Max	125	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	nc:OrganizationName	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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21.994

External File Reference

Mnemonic	EFR			Conditionality	D		
				Status	Active		
Description	This conditional field shall be used to enter the URL / URI or other unique reference to a storage location for all associated context files EXCEPT 2D still images. If this field is used, Field 21.999: Associated context data / DATA shall not be set. However, one of the two fields shall be present in all instances of this record type. It is an alphanumeric entry, with special characters allowed. A non-URL reference might be similar to: "Case 2009:1468 AV Tape 5".						
Field Min	1			Occur Min	0		
Field Max	200			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2013 (Type-21)						
XML Level 1	biom:ContextExternalFileReferenceText or biom:SourceExternalAnalogFileReferenceText or biom:SourceExternalDigitalImageReferenceText or biom:SourceExternalDigitalAudioReferenceText or biom:SourceExternalDigitalVideoReferenceText				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.996

Hash

Mnemonic	HAS		Conditionality	O	
			Status	Active	
Description	Optional field xx.996, is designed for use in Record types 10 and above with a Field xx.999 storing the biometric data. It is comprised of 64 characters representing hexadecimal values. Thus, each character may be a digit from “0” to “9” or a letter “A” through “F”. See the latest version of the Federal Information Processing Standard 180, Secure Hash Standard for information on computing SHA-256 hashes. At the time of this standard’s publication, FIPS 180-37 had been published. It is also possible to use Field xx.996 to contain the hash for data stored externally, which is referenced in Field 20.994: External file reference (EFR) and/or Field 21.994: External file reference (EFR). The ability to store files externally is new to this version of the standard, and is only implemented for the two new record types referred to here. Use of the hash enables the receiver of the data to perform quick searches of large databases to determine if the data already exist in the database. It is not intended as an information assurance check. That is handled by Record Type-98: Information assurance record.				
Field Min	64		Occur Min	0	
Field Max	64		Occur Max	1	
Char Types	H		Special Chars	None	
Format	n/a		Constraints	None	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-21)				
XML Level 1	biom_2:ImageHashValue			Cardinality	0..1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

21.998Geographic Sample Acquisition Location

Mnemonic	GEO		Conditionality	0	
			Status	Active	
Description	This optional field contains the location where the iris sample/original source/context information was acquired – not where it is stored.				
Field Min	n/a		Occur Min	0	
Field Max	n/a		Occur Max	1	
Char Types	n/a		Special Chars	n/a	
Format	n/a		Constraints	n/a	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-21)				
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail			Cardinality	0...1
XML Level 2				Cardinality	
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

21.998_01Geographic Sample Acquisition LocationUniversal Time Entry

Mnemonic	UTE		Conditionality	0↑	
			Status	Active	
Description	The coordinated universal time (UTC) where the biometric sample was collected. This time is independent of the actual time zone where the time and date is recorded. The date is YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. If sample collection time is unknown, set it to "00000000000000Z."				
Field Min	15		Occur Min	0	
Field Max	15		Occur Max	1	
Char Types	AN		Special Chars	None	
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding		Constraints	Dependent upon encoding	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-21)				
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail			Cardinality	1...1
XML Level 2	biom:CaptureLocation			Cardinality	0..1
XML Level 3	biom:CaptureUTCDateTime/nc:DateTime			Cardinality	0...1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

21.998_02Geographic Sample Acquisition Location*Latitude Degree Value*

Mnemonic	LTD	Conditionality	D
		Status	Active
Description	The second information item is latitude degree value (LTD). This is a value that specifies the degree of latitude. The value shall be between -90 (inclusive) and +90 (inclusive). The degrees may be expressed as an integer (without a decimal) or a real number including decimals. If decimals are present, then minutes and seconds shall be empty. Examples: Buenos Aires, Argentina: -34 (with minutes LTM = 36) NIST, Gaithersburg, Maryland: 39.137627 (no LTM or LTS)		
Field Min	1	Occur Min	0
Field Max	9	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	-90 <= LTD <= 90
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail		Cardinality 1...1
XML Level 2	biom:CaptureLocation		Cardinality 0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)		Cardinality 0...1
XML Level 4	nc:LatitudeDegreeValue		Cardinality 0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

21.998_03Geographic Sample Acquisition Location*Latitude Minute Value*

Mnemonic	LTM	Conditionality	D
		Status	Active
Description	This information item is latitude minute value (LTM). This is a value that specifies a minute of a degree. The value shall be between 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall be empty. Thus, the allowed special character is a period. The minute value can be empty, even if the degree value is an integer. LTM and LGM are co-conditional, so they shall both be present if either is present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	0 <= LTM < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail		Cardinality 1...1
XML Level 2	biom:CaptureLocation		Cardinality 0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)		Cardinality 0...1
XML Level 4	nc:LatitudeMinuteValue		Cardinality 0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

21.998_04Geographic Sample Acquisition Location*Latitude Second Value*

Mnemonic	LTS	Conditionality	D
		Status	Active
Description	The fourth information item is the latitude second value (LTS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LTS < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LatitudeSecondValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

21.998_05Geographic Sample Acquisition Location*Longitude Degree Value*

Mnemonic	LGD	Conditionality	D
		Status	Active
Description	The fifth information item is the longitude degree value (LGD). It is a value that specifies the degree of a longitude. The value shall be between -180 (inclusive) and +180 (inclusive). If LTD is present, then LGD shall be present. The degrees may be expressed as whole numbers (without a decimal) or real numbers including decimals. If decimals are present, then minutes and seconds are empty. Examples: Buenos Aires, Argentina: -58 (with minutes LGM = 22), NIST, Gaithersburg, Maryland: -77.216032 (no LGM or LGS)		
Field Min	1	Occur Min	0
Field Max	10	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	-180 <= LGD <= 180
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeDegreeValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

21.998_06Geographic Sample Acquisition Location*Longitude Minute Value*

Mnemonic	LGM	Conditionality	D
		Status	Active
Description	The sixth information item is the longitude minute value (LGM). It is a value that specifies a minute of a degree. The value shall be from 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall not appear. The minute value is empty, even if the degree value is an integer. If LTM is present, then LGM shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	0 <= LGM < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeMinuteValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

21.998_07Geographic Sample Acquisition Location*Longitude Second Value*

Mnemonic	LGS	Conditionality	D
		Status	Active
Description	The seventh information item is the longitude second value (LGS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer. If LTS is present, then LGS shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LGS < 60
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	nc:LongitudeSecondValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

21.998_08Geographic Sample Acquisition Location*Elevation*

Mnemonic	ELE	Conditionality	O
		Status	Active
Description	The eighth information item is elevation (ELE). It is expressed in meters. It is a numeric value. It is between -422 meters (Dead Sea) and 8848 meters (Mount Everest). Allowed special characters are the negative sign and the period.		
Field Min	3	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Minus Sign,Period
Format	n/a	Constraints	-422.000 < ELE < 8848.000; real number
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationGeographicElevation	Cardinality	0..1
XML Level 4	nc:MeasurePoint	Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.998_09Geographic Sample Acquisition Location*Geodetic Datum Code*

Mnemonic	GDC	Conditionality	O
		Status	Active
Description	The ninth information item is the geodetic datum code (GDC11). It is an alphanumeric value of 3 to 6 characters in length. This information item is used to indicate which coordinate system was used to represent the values in information items 2 through 7. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values.		
Field Min	2	Occur Min	0
Field Max	6	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	GEOGRAPHIC COORDINATE DATUM CODE		
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:LocationTwoDimensionalGeographicCoordinate (0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0...1
XML Level 4	biom:GeodeticDatumCoordinateSystemCode or biom:GeodeticDatumCoordinateSystemName	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

21.998_10Geographic Sample Acquisition Location*Geographic Coordinate Universal Transverse Mercator Zone*

Mnemonic	GCM	Conditionality	D
		Status	Active
Description	It is an alphanumeric value of 2 to 3 characters. This is a one or two digit UTM zone number followed by the 8 degree latitudinal band designator (which is a single letter).		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	One or two digit UTM zone
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 4	nc:UTMGridZoneID	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

21.998_11Geographic Sample Acquisition Location*Geographic Coordinate Universal Transverse Mercator Easting*

Mnemonic	GCE	Conditionality	D
		Status	Active
Description	The eleventh information item is the geographic coordinate universal transverse Mercator easting (GCE). It is an integer of 1 to 6 digits.		
Field Min	1	Occur Min	0
Field Max	6	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= GCE; integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 4	nc:UTMEastingValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

21.998_12Geographic Sample Acquisition Location*Geographic Coordinate Universal Transverse Mercator Northing*

Mnemonic	GCN	Conditionality	D
		Status	Active
Description	The twelfth information item is the geographic coordinate universal transverse Mercator northing (GCN). It is an integer of 1 to 8 digits.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= GCN; integer
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	nc:LocationUTMCoordinate	Cardinality	0..1
XML Level 4	nc:UTMNorthingValue	Cardinality	0..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

21.998_13Geographic Sample Acquisition Location*Geographic Reference Text*

Mnemonic	GRT	Conditionality	O
		Status	Active
Description	It is a free form text describing a street address or other physical location (such as 'Corner of Washington and Madison, Geneva, NY').		
Field Min	1	Occur Min	0
Field Max	150	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail	Cardinality	1...1
XML Level 2	biom:CaptureLocation	Cardinality	0..1
XML Level 3	biom:GeographicLocationText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

21.998_14Geographic Sample Acquisition Location*Geographic Coordinate Other System Identifier*

Mnemonic	OSI			Conditionality	O
				Status	Active
Description	A fourteenth optional information item geographic coordinate other system identifier (OSI) allows for other coordinate systems. This information items specifies the system identifier. It is up to 10 characters in length. Examples are: • MGRS (Military Grid Reference System), • USNG (United States National Grid), • GARS (Global Area Reference System), • GEOREF (World Geographic Reference), • LANDMARK landmark (e.g. hydant) and position relative to the landmark.				
Field Min	1			Occur Min	0
Field Max	10			Occur Max	1
Char Types	U			Special Chars	Any
Format	n/a			Constraints	None
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-21)				
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail			Cardinality	1...1
XML Level 2	biom:CaptureLocation			Cardinality	0..1
XML Level 3	biom:LocationAlternateGeographicSystemValue			Cardinality	0..1
XML Level 4	biom:GeographicLocationSystemName			Cardinality	1..1
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

21.998_15Geographic Sample Acquisition Location*Geographic Coordinate Other System Value*

Mnemonic	OCV		Conditionality	D	
			Status	Active	
Description	A fifteenth optional information item, is the geographic coordinate other system value (OCV). It shall only be present if OSI is present in the record. It can be up to 126 characters in length. If OSI is LANDMARK, OCV is free text and may be up to 126 characters. For details on the formatting of OCV for the other coordinate systems shown in OSI as examples, see http://earth-info.nga.mil/GandG/coordsys/grids/referencesys.html .				
Field Min	1		Occur Min	1	
Field Max	126		Occur Max	1	
Char Types	U		Special Chars	Any	
Format	n/a		Constraints	None	
Code List					
Source	ANSI/NIST ITL 1-2013 (Type-21)				
XML Level 1	biom_2:ContextImage/biom:ImageCaptureDetail or biom_2:ContextAudio/biom_2:BiometricCaptureDetail or biom_2:ContextVideo/biom_2:BiometricCaptureDetail			Cardinality	1...1
XML Level 2	biom:CaptureLocation			Cardinality	0..1
XML Level 3	biom:LocationAlternateGeographicSystemValue			Cardinality	0..1
XML Level 4	biom:GeographicLocationText			Cardinality	0...1
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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Associated Context Data

Mnemonic	DATA	Conditionality	D
		Status	Active
Description	If this field is used, Field 21.994: External file reference / EFR shall not be set. However, one of the two fields shall be present in all instances of this record type. It is mandatory for a 2D still image. See Section 7.2 of ANSI/NIST ITL 1-2011 for details.		
Field Min	1	Occur Min	0
Field Max	Unlimited	Occur Max	1
Char Types	B	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2013 (Type-21)		
XML Level 1	nc:BinaryBase64Object	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

98.001

Record Header

Mnemonic	LEN	Conditionality	M
		Status	Active
Description	The record header appears as the first field (xx.001) in each Record Type. It contains information particular to the encoding format chosen, in order to enable proper reading of the record. In Traditional encoding, this field contains the record length in bytes (including all information separators). In NIEM-conformant XML encoding, this field contains the RecordCategoryCode, which is the numeric representation of the Record Type.		
Field Min	T = 4; X = 1	Occur Min	1
Field Max	T = 8; X = 2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-98)		
XML Level 1	itl:PackageInformationAssuranceRecordType	Cardinality	
XML Level 2	nist-itl:RecordCategoryCode	Cardinality	1...1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

98.002Information Designation Character

Mnemonic	IDC			Conditionality	M		
				Status	Active		
Description	Each of the records present in a transaction, with the exception of the Type-1 record, shall include a field (xx.002) containing the information designation character / IDC. The value of the IDC shall be a sequentially assigned positive integer starting from zero and incremented by one up to a maximum of 99. IDC references are stated in Type-1 Field 1.003 Transaction content (CNT) and shall be used to relate information items in the CNT field of the Type-1 record to the other records in the transaction. Two or more records may share a single IDC solely to identify and link together records that pertain to different representations of the same biometric trait.						
Field Min	1			Occur Min	1		
Field Max	2			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	Constraints 0 <= IDC <= 99; integer		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-98)						
XML Level 1	itl:PackageInformationAssuranceRecordType				Cardinality		
XML Level 2	nist-itl:ImageReferenceIdentification/nc:IdentificationID				Cardinality	1...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

98.003IA Data Format Owner

Mnemonic	DFO		Conditionality	M	
			Status	Active	
Description	This mandatory field shall contain a four digit hex value assigned by an authoritative body which denotes the vendor standards body, working group, or industry consortium that has defined the format of the information assurance data. The IA data format owner and Field 98.005: IA data format type / DFT , when used in combination with one another uniquely identify the specific format of the IA content. This IA data format definition may be published (public) or unpublished (non-public).				
Field Min	4		Occur Min	1	
Field Max	4		Occur Max	1	
Char Types	H		Special Chars	None	
Format	n/a		Constraints	None	
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-98)				
XML Level 1	itl:PackageInformationAssuranceRecordType			Cardinality	
XML Level 2	(ITL)biom:AssuranceFormatOwnerIdentification/nc:IdentificationID			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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Source Agency

Mnemonic	SRC			Conditionality	M		
				Status	Active		
Description	This is the identifier of the agency that actually created the record and supplied the information contained in it.						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-98)						
XML Level 1	itl:PackageInformationAssuranceRecordType				Cardinality		
XML Level 2	(ITL)biom:AssuranceOrganization				Cardinality	1..1	
XML Level 3	nc:OrganizationIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

98.005

IA Data Format Type

Mnemonic	DFT			Conditionality	M
				Status	Active
Description	This mandatory field shall be used to identify the value assigned by the format owner (DFO) to represent the specific IA data format as specified by the format owner. This may be a nonstandard, unpublished data format or a data format that has been standardized by an industry group, consortium, or standards body.				
Field Min	1		Occur Min	1	
Field Max	20		Occur Max	1	
Char Types	U		Special Chars	None	
Format	n/a		Constraints	None	
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-98)				
XML Level 1	itl:PackageInformationAssuranceRecordType			Cardinality	
XML Level 2	(ITL)biom:AssuranceFormatIdentification/nc:IdentificationID			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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IA Data Creation Date

Mnemonic	DCD			Conditionality	M		
				Status	Active		
Description	This mandatory field shall contain the date and time that IA data was created. The date and time shall appear as GMT format.						
Field Min	Dependent on Encoding			Occur Min	1		
Field Max	Dependent on Encoding			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	Dependent upon encoding, nc:DateTime		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-98)						
XML Level 1	itl:PackageInformationAssuranceRecordType				Cardinality		
XML Level 2	(ITL)biom:AssuranceDateTime/nc:DateTime				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

98.9

Audit Log

Mnemonic	ALF			Conditionality	0		
				Status	Active		
Description	One complete audit statement (subfield of ALF) shall be completed for each modified datum. If this field appears, then Field 98.901 Audit revision number / ARN shall also be in the record.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-98)						
XML Level 1	itl:PackageInformationAssuranceRecordType				Cardinality		
XML Level 2	(ITL)biom:AssuranceLogEntry				Cardinality	0...1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Audit Log

Subfields: Repeating sets of information items

Mnemonic	ALF_0			Conditionality	M↑		
				Status	Active		
Description	This optional field contains a series of repeating subfields. One complete audit statement (subfield of ALF) shall be completed for each modified datum. If this field appears, then Field 98.901 Audit revision number / ARN shall also be in the record.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-98)						
XML Level 1	itl:PackageInformationAssuranceRecordType				Cardinality		
XML Level 2	(ITL)biom:AssuranceLogEntry				Cardinality	0..*	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

98.900_1

Audit Log

Event

Mnemonic	EVT			Conditionality	M↑		
				Status	Yes		
Description	It is mandatory and shall contain textual information describing the event that occurred to the ANSI/NIST-ITL record field, and shall be chosen from the following controlled vocabulary: Added, Modified, Deleted, Corrupted						
Field Min	5			Occur Min	1		
Field Max	9			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	EVT = Added, Modified, Deleted or Corrupted		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-98)						
XML Level 1	itl:PackageInformationAssuranceRecordType				Cardinality		
XML Level 2	(ITL)biom:AssuranceLogEntry				Cardinality	0..*	
XML Level 3	(ITL)biom:AssuranceLogEventCode				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Audit Log

Event Reason

Mnemonic	EVR			Conditionality	O↑		
				Status	Active		
Description	It states the rationale behind the Event that occurred. This information item is optional and should be populated with alphanumeric text with special characters up to 200 characters.						
Field Min	1			Occur Min	0		
Field Max	200			Occur Max	1		
Char Types	U			Special Chars	integer		
Format	n/a			Constraints	n/a		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-98)						
XML Level 1	itl:PackageInformationAssuranceRecordType				Cardinality		
XML Level 2	(ITL)biom:AssuranceLogEntry				Cardinality	0..*	
XML Level 3	(ITL)biom:AssuranceLogEventReasonText				Cardinality	0..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

98.900_3

Audit Log

Information Identifier

Mnemonic	IID		Conditionality	M↑			
			Status	Active			
Description	Information identifier / IID is the third information item. It is mandatory and identifies the field/subfield/information item that has been affected by the Event. It is defined as the concatenation of the IDC, a comma, the Field Number in the standard, a comma, the repeat count of the subfield (default = NA), a comma, and the information item mnemonic (if it exists). If a repeating subfield or information item does not exist, enter a “NA”. For the case when a repeated subfield is removed, the entry for the repeat field number is the original repeat set count, preceded by a negative; the information item mnemonic is entered as “NA”. When an information item is removed, the mnemonic is preceded by a negative. When an optional field is removed, the field number is preceded by a minus. Even though subfields and information items may have been in the field, the field number is followed by “NA,NA” so that the subfields and information items do not have to be individually listed.						
Field Min	15		Occur Min	1			
Field Max	30		Occur Max	1			
Char Types	H		Special Chars	None			
Format	n/a		Constraints	Field number exists, Repeat count valid for the field number, Mnemonic exists			
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-98)						
XML Level 1	itl:PackageInformationAssuranceRecordType			Cardinality			
XML Level 2	(ITL)biom:AssuranceLogEntry			Cardinality	0..*		
XML Level 3	(ITL)biom:AssuranceLogEventLocationText			Cardinality	1..1		
XML Level 4				Cardinality			
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Audit Log

Agent

Mnemonic	AGT			Conditionality	M↑		
				Status	Active		
Description	It is mandatory and shall contain information describing the entity (Agent) responsible for the EVT that affected the object identified by the IID. It is an alphanumeric entry of up to 200 characters with special characters allowed.						
Field Min	1			Occur Min	1		
Field Max	200			Occur Max	1		
Char Types	U			Special Chars	None		
Format	n/a			Constraints	None		
Code List							
Source	ANSI/NIST ITL 1-2011 (Type-98)						
XML Level 1	itl:PackageInformationAssuranceRecordType				Cardinality		
XML Level 2	(ITL)biom:AssuranceLogEntry				Cardinality	0..*	
XML Level 3	(ITL)biom:AssuranceLogAgentText				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

98.900_5

Audit Log

Old Reference

Mnemonic	OLD	Conditionality	O↑		
		Status	Active		
Description	It is optional. When used, it shall contain the original value of the location in the transaction referenced in IID before it was affected by the event (EVT).				
Field Min	Dependent upon the format of the location referenced by 98.900_3 Information Identifier (IID)		Occur Min	0	
Field Max	Dependent upon the format of the location referenced by 98.900_3 Information Identifier (IID)		Occur Max	1	
Char Types	U		Special Chars	None	
Format	n/a		Constraints	Value of datum prior to the EVT in the location referenced by 98.900_3 Information Identifier (IID)	
Code List					
Source	ANSI/NIST ITL 1-2011 (Type-98)				
XML Level 1	itl:PackageInformationAssuranceRecordType			Cardinality	
XML Level 2	(ITL)biom:AssuranceLogEntry			Cardinality	0..*
XML Level 3	(ITL)biom:AssuranceLogEventOriginalValueText			Cardinality	0..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

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Audit Log

Audit Revision Number

Mnemonic	ARN	Conditionality	D
		Status	Active
Description	This field is mandatory if Field 98.900: Audit log / ALF appears in the record. It contains a unique reference to the revision within the revision history. It is numeric, with up to 3 digits. Revision "x" may contain multiple events, each of which is recorded as a discrete modification (requiring a separate subfield in ARN). Thus, a different revision, with its corresponding log of modifications (recorded in ARN) requires a separate instance of Record Type-98.		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= ARN <= 999; positive integer
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-98)		
XML Level 1	itl:PackageInformationAssuranceRecordType	Cardinality	
XML Level 2	(ITL)biom:AssuranceAuditRevisionIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

98.993

Source Agency Name

Mnemonic	SAN	Conditionality	O
		Status	Active
Description	This is an optional field. It may contain up to 125 Unicode characters. It is the name of the agency referenced in Field xx.004: Source agency / SRC for record types 9-99.		
Field Min	1	Occur Min	0
Field Max	125	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	ANSI/NIST ITL 1-2011 (Type-98)		
XML Level 1	itl:PackageInformationAssuranceRecordType	Cardinality	
XML Level 2	(ITL)biom:AssuranceOrganization	Cardinality	1..1
XML Level 3	nc:OrganizationName	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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99.001

Record Header

Mnemonic	LEN	Conditionality	M
		Status	Active
Description	The record header appears as the first field (xx.001) in each Record Type. It contains information particular to the encoding format chosen, in order to enable proper reading of the record. In Traditional encoding, this field contains the record length in bytes (including all information separators). In NIEM-conformant XML encoding, this field contains the RecordCategoryCode, which is the numeric representation of the Record Type.		
Field Min	T = 4; X = 1	Occur Min	1
Field Max	T = 8; X = 2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	positive integer
Code List			
Source	ANSI/NIST ITL 1-2013		
XML Level 1	nist-itl:RecordCategoryCode	Cardinality	1...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.002

Information Designation Character

Mnemonic	IDC	Conditionality	M
		Status	Active
Description	Each of the records present in a transaction, with the exception of the Type-1 record, shall include a field (xx.002) containing the information designation character / IDC. The value of the IDC shall be a sequentially assigned positive integer starting from zero and incremented by one up to a maximum of 99. IDC references are stated in Type-1 Field 1.003 Transaction content (CNT) and shall be used to relate information items in the CNT field of the Type-1 record to the other records in the transaction. Two or more records may share a single IDC solely to identify and link together records that pertain to different representations of the same biometric trait.		
Field Min	1	Occur Min	1
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= IDC <= 99; integer
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	nist-itl:ImageReferenceIdentification/nc:IdentificationID	Cardinality	1...1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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99.004

Source Agency

Mnemonic	SRC		Conditionality	M	
			Status	Active	
Description	This is the identifier of the agency that actually created the record and supplied the information contained in it.				
Field Min	1		Occur Min	1	
Field Max	Unlimited		Occur Max	1	
Char Types	U		Special Chars	Any	
Format	n/a		Constraints	None	
Code List					
Source	"ANSI/NIST ITL 1-2013"				
XML Level 1	biom_1:CBEFFImage			Cardinality	1..1
XML Level 2	biom_1:ImageCaptureDetail			Cardinality	1..1
XML Level 3	biom_1:CaptureOrganization			Cardinality	0...1
XML Level 4	nc:OrganizationIdentification/nc:IdentificationID			Cardinality	1..1
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

99.005

Biometric Capture Date

Mnemonic	BCD		Conditionality	M			
			Status	Active			
Description	This ASCII field shall contain the date and time that the biometric sample was captured. The date and time shall appear as fifteen digits in the format YYYYMMDDhhmmssZ. The YYYY characters shall represent the year the image was captured; the MM characters shall be the tens and units values of the month; the DD characters shall be the tens and units values of the day in the month; the hh characters shall be the tens and units values of the hour of the day in 24-hour format; the mm characters shall be the tens and units values of the the DD characters shall be the tens and units values of the day in the month; the hh characters shall be the tens and units values of the hour of the day in 24-hour format; the mm characters shall be the tens and units values of the minute within the hour; the ss characters shall be the tens and units values of the second of the minute; and “Z” denotes Coordinated Universal Time, which is abbreviated UTC. For example, December 15, 2000 at 5 AM, 35 minutes and 30 seconds is expressed as 20001215053530Z. The complete date must be a legitimate date.						
Field Min	1		Occur Min	1			
Field Max	Unlimited		Occur Max	1			
Char Types	N		Special Chars	None			
Format	YYYYMMDDhhmmssZ		Constraints	Dependent upon encoding			
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_1:CBEFFImage		Cardinality	1..1			
XML Level 2	biom_1:ImageCaptureDetail		Cardinality	1..1			
XML Level 3	biom_2:CaptureDate/nc:Date		Cardinality	1..1			
XML Level 4			Cardinality				
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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99.1

CBEFF Header Version

Mnemonic	HDV			Conditionality	M		
				Status	Active		
Description	This ASCII field shall be used to identify the version of CBEFF specification that this record conforms to. The format is two characters for major version number followed by two characters for minor version. The current version of CBEFF is INCITS 398-2005 represented by the string '0101' (major version '01' and minor version '01').						
Field Min	T = 4, X = 3			Occur Min	1		
Field Max	4			Occur Max	1		
Char Types	N			Special Chars	None		
Format	n/a			Constraints	HDV = 0101		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_1:CBEFFImage				Cardinality	1..1	
XML Level 2	biom_2:CBEFFVersionIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.101

Biometric Type

Mnemonic	BTY			Conditionality	M		
				Status	Active		
Description	This ASCII field shall be used to identify the type of biometric technology. This specification adopts the values presented in CBEFF with the addition of two leading zeros for future expansion.						
Field Min	T = 4, X = 3			Occur Min	1		
Field Max	8			Occur Max	1		
Char Types	H			Special Chars	None		
Format	n/a			Constraints	see Look Up Codes		
Code List	BIOMETRIC MODALITY CODES						
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_1:CBEFFImage				Cardinality	1..1	
XML Level 2	biom_1:CBEFFCategoryCode				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-99: CBEFF Biometric Data

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99.102

Biometric Data Quality

Mnemonic	BDQ			Conditionality	0		
				Status	Active		
Description	This set shall specify a quality score data for the biometric data stored in the BDB in this record. The three information items identify a quality score and the algorithm used to create the quality score. This information is useful to enable the recipient of the quality score to differentiate between quality scores generated by different algorithms and adjust for any differences in processing or analysis as necessary.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_1:CBEFFImage				Cardinality	1..1	
XML Level 2	biom_2:ImageQuality				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.102_0

Biometric Data Quality

Mnemonic	BDQ_0			Conditionality	M↑		
				Status	Active		
Description	This set shall specify a quality score data for the biometric data stored in the BDB in this record. The three information items identify a quality score and the algorithm used to create the quality score. This information is useful to enable the recipient of the quality score to differentiate between quality scores generated by different algorithms and adjust for any differences in processing or analysis as necessary.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	9		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_1:CBEFFImage				Cardinality	1..1	
XML Level 2	biom_2:ImageQuality				Cardinality	0..9	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

99.102_1Biometric Data QualityQuality Value

Mnemonic	QVU	Conditionality	M↑
		Status	Active
Description	This information item shall contain the integer image quality score between 0 and 100 (inclusive) assigned to the image data by a quality algorithm. Higher values indicate better quality. An entry of "255" shall indicate a failed attempt to calculate a quality score. An entry of "254" shall indicate that no attempt to calculate a quality score was made.		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= QUV <= 100 or QVU = 254 or 255; integer
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage	Cardinality	1..1
XML Level 2	biom_2:ImageQuality	Cardinality	0..9
XML Level 3	biom_2:QualityValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.102_2Biometric Data QualityAlgorithm Vendor Identification

Mnemonic	QAV	Conditionality	M↑
		Status	Active
Description	This information item shall specify the ID of the vendor of the quality algorithm used to calculate the quality score. This 4-digit hex value is assigned by IBIA and expressed as four ASCII characters. The IBIA shall maintain the Vendor Registry of CBEFF Biometric Organizations that will map the value in this field to a registered organization.		
Field Min	4	Occur Min	1
Field Max	4	Occur Max	1
Char Types	H	Special Chars	None
Format	n/a	Constraints	0000 <= QAV <= FFFF
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage	Cardinality	1..1
XML Level 2	biom_2:ImageQuality	Cardinality	0..9
XML Level 3	biom_2:QualityAlgorithmVendorIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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99.102_3

Biometric Data Quality

Algorithm Product Identification

Mnemonic	QAP	Conditionality	M↑
		Status	Active
Description	This information item shall specify a numeric product code assigned by the vendor of the quality algorithm, which may be registered with the IBIA, but it is not required to be registered. It indicates which of the vendor's algorithms was used in the calculation of the quality score. This field contains the ASCII representation of the integer product code and should be within the range 1 to 65535.		
Field Min	1	Occur Min	1
Field Max	5	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= QAP <= 65535; positive integer
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage	Cardinality	1..1
XML Level 2	biom_2:ImageQuality	Cardinality	0..9
XML Level 3	biom_2:QualityAlgorithmProductIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	Yes
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.103

BDB Format Owner

Mnemonic	BFO	Conditionality	M
		Status	Active
Description	This ASCII field shall be used to denote the vendor, standards body, working group, or industry consortium that has defined the format of the biometric data (in the BDB). In a CBEFF structure the BDB Format Owner and Format Type, when used in combination, uniquely identify the specific format of the BDB content. The format and content of the BDB is "owned" by the CBEFF Client (see Clause 6.1 of the CBEFF standard). This BDB format definition may be published (public) or unpublished (non-public). A CBEFF requirement is that format owners register with IBIA for an assigned identifier of the format owner. The number is guaranteed to be unique. Refer to the CBEFF standard, Clause 6, "CBEFF Patrons and Clients," for registration information. The four hex digits assigned by IBIA shall be represented by a string of four ASCII characters.		
Field Min	4	Occur Min	1
Field Max	4	Occur Max	1
Char Types	H	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage	Cardinality	1..1
XML Level 2	biom_2:CBEFFFormatOwnerIdentification/nc:IdentificationID	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-99: CBEFF Biometric Data

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99.104

BDB Format Type

Mnemonic	BFT			Conditionality	M
				Status	Active
Description	This ASCII field shall be used to identify the value assigned by the format owner to represent the specific BDB Format as specified by the format owner. This may be a nonstandard, unpublished data format or a data format that has been standardized by an industry group, consortium, or standards body. The registration of the Format Type value is recommended but not required. Refer to the CBEFF standard, Clause 6, “CBEFF Patrons and Clients,” for registration information. The four hex digits assigned by the format owner shall be represented by a string of four ASCII characters.				
Field Min	4			Occur Min	1
Field Max	4			Occur Max	1
Char Types	H			Special Chars	None
Format	n/a			Constraints	None
Code List					
Source	"ANSI/NIST ITL 1-2013"				
XML Level 1	biom_1:CBEFFImage			Cardinality	1..1
XML Level 2	biom_2:CBEFFFormatCategoryIdentification/nc:IdentificationID			Cardinality	1..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

99.902

Annotated Information

Mnemonic	ANN			Conditionality	0		
				Status	Active		
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_2:ProcessAnnotation				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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99.902_0

Annotated Information

Repeating subsets

Mnemonic	ANN_0			Conditionality	M↑		
				Status	Active		
Description	This is an optional field, listing the operations performed on the original source in order to prepare it for inclusion in a biometric record type.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	*		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_2:ProcessAnnotation				Cardinality	0..*	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

99.902_1

Annotated Information

Greenwich Mean Time

Mnemonic	GMT			Conditionality	M↑		
				Status	Active		
Description	This information item is the Greenwich Mean Time (GMT) when the processing occurred. The data is formatted as YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. This time is independent of the actual time zone where the time and date is recorded.						
Field Min	15			Occur Min	1		
Field Max	15			Occur Max	1		
Char Types	AN			Special Chars	None		
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding			Constraints	Dependent upon encoding		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_2:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom_2:ProcessUTCDate/nc:DateTime				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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99.902_2

Annotated Information

Processing Algorithm Name / Version

Mnemonic	NAV			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain text identifying the name and version of the processing algorithm, application, procedure, or workstation						
Field Min	1			Occur Min	1		
Field Max	Unlimited			Occur Max	1		
Char Types	U			Special Chars	n/a		
Format	n/a			Constraints	None		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_2:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom_2:ProcessName				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.902_3

Annotated Information

Algorithm Owner

Mnemonic	OWN			Conditionality	M↑		
				Status	Active		
Description	This information item shall contain an unformatted text string of up to 64 characters with the contact information for the organization that owns the processing algorithm or latent workstation. Where there is no 'algorithm owner,' enter N/A.						
Field Min	1			Occur Min	1		
Field Max	64			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_2:ProcessAnnotation				Cardinality	0..*	
XML Level 2	biom_2:ProcessOwnerText				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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99.902_4

Annotated Information

Process Description

Mnemonic	PRO	Conditionality	M↑
		Status	Active
Description	This information item field shall contain text describing a process or procedure applied to the sample in this Type-9 record.		
Field Min	1	Occur Min	1
Field Max	255	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_2:ProcessAnnotation	Cardinality	0..*
XML Level 2	biom_2:ProcessDescriptionText	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.903

Device Unique Identifier

Mnemonic	DUI	Conditionality	0
		Status	Active
Description	The DUI shall contain a string uniquely identifying the device or source of the data. This field shall be one of the following: a Host PC MAC address (identified by the first character "M"), a Host PC processor ID (identified by the first character "P"). since it is available in the Make / Model / Serial Number field.		
Field Min	13	Occur Min	0
Field Max	16	Occur Max	1
Char Types	ANS	Special Chars	Any
Format	n/a	Constraints	first character = M or P
Code List	DEVICE UNIQUE IDENTIFIER CODES		
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage	Cardinality	1..1
XML Level 2	biom_2:ImageCaptureDetail	Cardinality	1..1
XML Level 3	biom_2:CaptureDeviceIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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99.904

Make/Model/Serial Number

Mnemonic	MMS	Conditionality	O
		Status	Active
Description	The MMS contains the make, model and serial number for the capture device. It shall consist of three information items. Each information item shall be 1 to 50 characters. Unknown information may be indicated with the value "0." Any or all information items may indicate that information is unknown with the value "0".		
Field Min	n/a	Occur Min	1
Field Max	n/a	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	n/a
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage	Cardinality	1..1
XML Level 2	biom_2:ImageCaptureDetail	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.904_1

Make/Model/Serial Number

Make

Mnemonic	MAK	Conditionality	M↑
		Status	Active
Description	The name of the manufacturer for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage	Cardinality	1..1
XML Level 2	biom_2:ImageCaptureDetail	Cardinality	1..1
XML Level 3	biom_2:CaptureDeviceMakeText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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99.904_2

Make/Model/Serial Number

Model

Mnemonic	MOD	Conditionality	M↑
		Status	Active
Description	The model number for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage	Cardinality	1..1
XML Level 2	biom_2:ImageCaptureDetail	Cardinality	1..1
XML Level 3	biom_2:CaptureDeviceModelText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

99.904_3

Make/Model/Serial Number

Serial Number

Mnemonic	SER	Conditionality	M↑
		Status	Active
Description	The serial number for the capture device.		
Field Min	1	Occur Min	0
Field Max	50	Occur Max	1
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage	Cardinality	1..1
XML Level 2	biom_2:ImageCaptureDetail	Cardinality	1..1
XML Level 3	biom_2:CaptureDeviceSerialNumberText	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

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99.993

Source Agency Name

Mnemonic	SAN			Conditionality	0		
				Status	Active		
Description	This is an optional field. It may contain up to 125 Unicode characters. It is the name of the agency referenced in Field xx.004: Source agency / SRC for record types 9-99.						
Field Min	1			Occur Min	0		
Field Max	125			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_1:CBEFFImage			Cardinality	1..1		
XML Level 2	biom_2:ImageCaptureDetail			Cardinality	1..1		
XML Level 3	biom_1:CaptureOrganization			Cardinality	0...1		
XML Level 4	nc:OrganizationName			Cardinality	0..1		
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.995

Associated Context

Mnemonic	ASC				Conditionality	0	
					Status	Active	
Description	This optional field refers to one or more Type 21 Records with the same ACN. Type 21 Records contain images that are NOT used to derive the biometric data in Field 13.999: Latent friction ridge image (DATA) but that may be relevant to the collection of that data, such as general scenes of the area where a latent print was found.						
Field Min	n/a				Occur Min	0	
Field Max	n/a				Occur Max	1	
Char Types	n/a				Special Chars	n/a	
Format	n/a				Constraints	n/a	
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_2:AssociatedContext					Cardinality	0..1
XML Level 2						Cardinality	
XML Level 3						Cardinality	
XML Level 4						Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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99.995_0

Associated Context

Repeating subsets

Mnemonic	ASC_0			Conditionality	M↑		
				Status	Active		
Description	This optional field refers to one or more Type 21 Records with the same ACN. Type 21 Records contain images that are NOT used to derive the biometric data in Field 13.999: Latent friction ridge image (DATA) but that may be relevant to the collection of that data, such as general scenes of the area where a latent print was found.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	255		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_2:AssociatedContext				Cardinality	0..255	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

99.995_1

Associated Context Number

Mnemonic	ACN			Conditionality	M↑		
				Status	Active		
Description	The first information item for the Associated Context field for a particular Record Type-21. This is mandatory for each Field xx.995, when the field is used. It contains an index to a particular instance of a Type-21 record in the transaction. This same index value appears in the appropriate instance of Record Type-21 as Field 21.021: Associated context number (CAN). The value of the CAN shall be a sequentially assigned a positive integer starting from one and incremented by one, not to exceed 255.						
Field Min	n/a			Occur Min	1		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_2:AssociatedContext				Cardinality	0..255	
XML Level 2	biom_2:ContextIdentification/nc:IdentificationID				Cardinality	1..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-99: CBEFF Biometric Data

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99.995_2

Associated Segment Position

Mnemonic	ASP	Conditionality	M↑
		Status	Active
Description	The first information item is the associated segment position (ASP). This provides a unique index to a segmentation.		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= ACN <= 255; positive integer
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_2:AssociatedContext	Cardinality	0..255
XML Level 2	biom_2:ImageSegmentIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.996

Hash

Mnemonic	HAS	Conditionality	O↑
		Status	Active
Description	Optional field xx.996, is designed for use in Record types 10 and above with a Field xx.999 storing the biometric data. It is comprised of 64 characters representing hexadecimal values. Thus, each character may be a digit from "0" to "9" or a letter "A" through "F". See the latest version of the Federal Information Processing Standard 180, Secure Hash Standard for information on computing SHA-256 hashes. At the time of this standard's publication, FIPS 180-37 had been published. It is also possible to use Field xx.996 to contain the hash for data stored externally, which is referenced in Field 20.994: External file reference (EFR) and/or Field 21.994: External file reference (EFR). The ability to store files externally is new to this version of the standard, and is only implemented for the two new record types referred to here. Use of the hash enables the receiver of the data to perform quick searches of large databases to determine if the data already exist in the database. It is not intended as an information assurance check. That is handled by Record Type-98: Information assurance record.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	n/a	Special Chars	n/a
Format	n/a	Constraints	1 <= ASP <= 99; positive integer
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom:ImageHashValue	Cardinality	0..1
XML Level 2		Cardinality	
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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99.997

Source Representation

Mnemonic	SOR			Conditionality	0		
				Status	Active		
Description	This optional field refers to a representation in Record Type-20 with the same SRN from which the data in Field 13.999: Latent friction ridge image (DATA) was derived.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_2:SourceRepresentation				Cardinality	0..1	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.997_0

Source Representation

Repeating subsets

Mnemonic	SOR_0			Conditionality	M↑		
				Status	Active		
Description	This optional field refers to a representation in Record Type-20 with the same SRN from which the data in Field 13.999: Latent friction ridge image (DATA) was derived.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	255		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_2:SourceRepresentation				Cardinality	0..255	
XML Level 2					Cardinality		
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	No	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-99: CBEFF Biometric Data

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99.997_1

Source Representation

Source Representation Number

Mnemonic	SRN	Conditionality	M↑
		Status	Active
Description	This is the first information item and is mandatory for each Field xx.997. It contains an index to a particular instance of a Type-20 record in the transaction. This same index value appears in the appropriate instance of Record Type-20 as Field 20.021: Source representation number (SRN). The value of the SRN shall be a sequentially assigned a positive integer starting from one and incremented by one, not to exceed 255.		
Field Min	1	Occur Min	1
Field Max	3	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= SRN <= 255; positive integer
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_2:SourceRepresentation	Cardinality	0..255
XML Level 2	biom_2:SourceIdentification/nc:identificationID	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

99.997_2

Source Representation

Reference Segment Position

Mnemonic	RSP	Conditionality	O↑
		Status	Active
Description	The first information item is the reference segment position (RSP). This provides a unique index to a segmentation.		
Field Min	1	Occur Min	0
Field Max	2	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	1 <= RSP <= 99; positive integer
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_2:SourceRepresentation	Cardinality	0..255
XML Level 2	biom_2:ImageSegmentIdentification/nc:IdentificationID	Cardinality	0..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

99.998Geographic Sample Acquisition Location

Mnemonic	GEO			Conditionality	O		
				Status	Active		
Description	This optional field contains the location where the iris sample/original source/context information was acquired – not where it is stored.						
Field Min	n/a			Occur Min	0		
Field Max	n/a			Occur Max	1		
Char Types	n/a			Special Chars	n/a		
Format	n/a			Constraints	n/a		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)				Cardinality	1...1	
XML Level 2	biom_2:CaptureLocation				Cardinality	0..1	
XML Level 3					Cardinality		
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.998_01Geographic Sample Acquisition LocationUniversal Time Entry

Mnemonic	UTE		Conditionality	O↑	
			Status	Active	
Description	The coordinated universal time (UTC) where the biometric sample was collected. This time is independent of the actual time zone where the time and date is recorded. The date is YYYYMMDDhhmmssZ, where the Z indicates the zone description of 0 hours. If sample collection time is unknown, set it to "000000000000000Z."				
Field Min	15		Occur Min	0	
Field Max	15		Occur Max	1	
Char Types	AN		Special Chars	None	
Format	YYYYMMDDHHMMSSZ - for Traditional Encoding		Constraints	Dependent upon encoding	
Code List					
Source	"ANSI/NIST ITL 1-2013"				
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)			Cardinality	1...1
XML Level 2	biom_2:CaptureUTCDateTime/nc:DateTime			Cardinality	0..1
XML Level 3				Cardinality	
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-99: CBEFF Biometric Data

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99.998_02

Geographic Sample Acquisition Location

Latitude Degree Value

Mnemonic	LTD	Conditionality	D
		Status	Active
Description	The second information item is latitude degree value (LTD). This is a value that specifies the degree of latitude. The value shall be between -90 (inclusive) and +90 (inclusive). The degrees may be expressed as an integer (without a decimal) or a real number including decimals. If decimals are present, then minutes and seconds shall be empty. Examples: Buenos Aires, Argentina: -34 (with minutes LTM = 36) NIST, Gaithersburg, Maryland: 39.137627 (no LTM or LTS)		
Field Min	1	Occur Min	1
Field Max	9	Occur Max	1
Char Types	NS	Special Chars	Decimal, Minus Sign, Plus Sign
Format	n/a	Constraints	-90 <= LTD <= 90
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_1:CaptureLocation(0...1)/biom_1:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	
XML Level 3	nc:LatitudeDegreeValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

99.998_03

Geographic Sample Acquisition Location

Latitude Minute Value

Mnemonic	LTM	Conditionality	D
		Status	Active
Description	This information item is latitude minute value (LTM). This is a value that specifies a minute of a degree. The value shall be between 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall be empty. Thus, the allowed special character is a period. The minute value can be empty, even if the degree value is an integer. LTM and LGM are co-conditional, so they shall both be present if either is present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	0 <= LTM < 60
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_1:CaptureLocation(0...1)/biom_1:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0..1
XML Level 3	nc:LatitudeMinuteValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-99: CBEFF Biometric Data

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99.998_04

Geographic Sample Acquisition Location

Latitude Second Value

Mnemonic	LTS	Conditionality	D
		Status	Active
Description	The fourth information item is the latitude second value (LTS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LTS < 60
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_1:CaptureLocation(0...1)/biom_1:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLatitude (0...1)	Cardinality	0..1
XML Level 3	nc:LatitudeSecondValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.998_05

Geographic Sample Acquisition Location

Longitude Degree Value

Mnemonic	LGD	Conditionality	D
		Status	Active
Description	The fifth information item is the longitude degree value (LGD). It is a value that specifies the degree of a longitude. The value shall be between -180 (inclusive) and +180 (inclusive). If LTD is present, then LGD shall be present. The degrees may be expressed as whole numbers (without a decimal) or real numbers including decimals. If decimals are present, then minutes and seconds are empty. Examples: Buenos Aires, Argentina: -58 (with minutes LGM = 22), NIST, Gaithersburg, Maryland: -77.216032 (no LGM or LGS)		
Field Min	1	Occur Min	1
Field Max	10	Occur Max	1
Char Types	NS	Special Chars	Decimal,Minus Sign,Plus Sign
Format	n/a	Constraints	-180 <= LGD <= 180
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_1:CaptureLocation(0...1)/biom_1:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLongitude (0...1)	Cardinality	0..1
XML Level 3	nc:LongitudeDegreeValue	Cardinality	1..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-99: CBEFF Biometric Data

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99.998_06

Geographic Sample Acquisition Location

Longitude Minute Value

Mnemonic	LGM	Conditionality	D
		Status	Active
Description	The sixth information item is the longitude minute value (LGM). It is a value that specifies a minute of a degree. The value shall be from 0 (inclusive) to 60 (exclusive). The minute value may be expressed as an integer (without a decimal) or as a real number including decimals. If decimals are present then seconds shall not appear. The minute value is empty, even if the degree value is an integer. If LTM is present, then LGM shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Decimal
Format	n/a	Constraints	0 <= LGM < 60
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_1:CaptureLocation(0...1)/biom_1:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLongitude (0...1)	Cardinality	0..1
XML Level 3	nc:LongitudeMinuteValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

99.998_07

Geographic Sample Acquisition Location

Longitude Second Value

Mnemonic	LGS	Conditionality	D
		Status	Active
Description	The seventh information item is the longitude second value (LGS). This is a value that specifies a second of a minute. The integer shall be 0 (inclusive) to 60 (exclusive). The second value is empty, even if the minute value is an integer. If LTS is present, then LGS shall be present.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= LGS < 60
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_1:CaptureLocation(0...1)/biom_1:LocationTwoDimensionalGeographicCoordinate(0...1)/nc:GeographicCoordinateLongitude (0...1)	Cardinality	0..1
XML Level 3	nc:LongitudeSecondValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-99: CBEFF Biometric Data

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Geographic Sample Acquisition Location

Elevation

Mnemonic	ELE	Conditionality	O
		Status	Active
Description	The eighth information item is elevation (ELE). It is expressed in meters. It is a numeric value. It is between -422 meters (Dead Sea) and 8848 meters (Mount Everest). Allowed special characters are the negative sign and the period.		
Field Min	3	Occur Min	0
Field Max	8	Occur Max	1
Char Types	NS	Special Chars	Minus Sign,Period
Format	n/a	Constraints	-422.000 < ELE < 8848.000; real number
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_1:CaptureLocation(0...1)/nc:LocationGeographicElevation (0...1)	Cardinality	0..1
XML Level 3	nc:MeasurePointValue	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.998_09

Geographic Sample Acquisition Location

Geodetic Datum Code

Mnemonic	GDC	Conditionality	O
		Status	Active
Description	The ninth information item is the geodetic datum code (GDC11). It is an alphanumeric value of 3 to 6 characters in length. This information item is used to indicate which coordinate system was used to represent the values in information items 2 through 7. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values. If no entry is made in this information item, then the basis for the values entered in the first eight information items shall be WGS84, the code for the World Geodetic Survey 1984 version - WGS 84 (G873). See look up codes for values.		
Field Min	2	Occur Min	0
Field Max	6	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	see Look Up Codes
Code List	GEOGRAPHIC COORDINATE DATUM CODES		
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_1:CaptureLocation(0...1)/biom_1:LocationTwoDimensionalGeographicCoordinate(0...1)	Cardinality	0..1
XML Level 3	biom_2:GeodeticDatumCoordinateSystemCode or biom_2:GeodeticDatumCoordinateSystemName	Cardinality	0..1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-99: CBEFF Biometric Data

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Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Zone

Mnemonic	GCM	Conditionality	D
		Status	Active
Description	It is an alphanumeric value of 2 to 3 characters. This is a one or two digit UTM zone number followed by the 8 degree latitudinal band designator (which is a single letter).		
Field Min	1	Occur Min	0
Field Max	3	Occur Max	1
Char Types	AN	Special Chars	None
Format	n/a	Constraints	One or two digit UTM zone
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_1:CaptureLocation(0...1)/nc:LocationUTMCoordinate(0...1)	Cardinality	0..1
XML Level 3	nc:UTMGridZoneID	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.998_11

Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Easting

Mnemonic	GCE	Conditionality	D
		Status	Active
Description	The eleventh information item is the geographic coordinate universal transverse Mercator easting (GCE). It is an integer of 1 to 6 digits.		
Field Min	1	Occur Min	0
Field Max	6	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= GCE; integer
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_1:CaptureLocation(0...1)/nc:LocationUTMCoordinate(0...1)	Cardinality	0..1
XML Level 3	nc:UTMEastingValue	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

Type-99: CBEFF Biometric Data

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Geographic Sample Acquisition Location

Geographic Coordinate Universal Transverse Mercator Northing

Mnemonic	GCN	Conditionality	D
		Status	Active
Description	The twelfth information item is the geographic coordinate universal transverse Mercator northing (GCN). It is an integer of 1 to 8 digits.		
Field Min	1	Occur Min	0
Field Max	8	Occur Max	1
Char Types	N	Special Chars	None
Format	n/a	Constraints	0 <= GCN; integer
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_1:CaptureLocation(0...1)/nc:LocationUTMCoordinate(0...1)	Cardinality	0..1
XML Level 3	nc:UTMNorthingValue	Cardinality	0...1
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

99.998_13

Geographic Sample Acquisition Location

Geographic Reference Text

Mnemonic	GRT	Conditionality	O
		Status	Active
Description	It is a free form text describing a street address or other physical location (such as 'Corner of Washington and Madison, Geneva, NY').		
Field Min	1	Occur Min	0
Field Max	150	Occur Max	*
Char Types	U	Special Chars	Any
Format	n/a	Constraints	None
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)	Cardinality	1...1
XML Level 2	biom_1:CaptureLocation(0...1)/biom:LocationAlternateGeographicSystemValue (1...1)	Cardinality	0..1
XML Level 3	nc:LocationDescriptionText	Cardinality	0..*
XML Level 4		Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No
DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Geographic Sample Acquisition Location

Geographic Coordinate Other System Identifier

Mnemonic	OSI			Conditionality	O		
				Status	Active		
Description	A fourteenth optional information item geographic coordinate other system identifier (OSI) allows for other coordinate systems. This information items specifies the system identifier. It is up to 10 characters in length. Examples are: • MGRS (Military Grid Reference System), • USNG (United States National Grid), • GARS (Global Area Reference System), • GEOREF (World Geographic Reference), • LANDMARK landmark (e.g. hydant) and position relative to the landmark.						
Field Min	1			Occur Min	1		
Field Max	10			Occur Max	1		
Char Types	U			Special Chars	Any		
Format	n/a			Constraints	None		
Code List							
Source	"ANSI/NIST ITL 1-2013"						
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)				Cardinality	1...1	
XML Level 2	biom_1:CaptureLocation (0...1)/biom:LocationAlternateGeographicSystemValue (1...1)				Cardinality	0..1	
XML Level 3	biom_2:GeographicLocationSystemName				Cardinality	1..1	
XML Level 4					Cardinality		
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes	DoD EBTS 4.0	Yes

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Geographic Sample Acquisition Location

Geographic Coordinate Other System Value

Mnemonic	OCV		Conditionality	D	
			Status	Active	
Description	A fifteenth optional information item, is the geographic coordinate other system value (OCV). It shall only be present if OSI is present in the record. It can be up to 126 characters in length. If OSI is LANDMARK, OCV is free text and may be up to 126 characters. For details on the formatting of OCV for the other coordinate systems shown in OSI as examples, see http://earth-info.nga.mil/GandG/coordsys/grids/referencesys.html .				
Field Min	1		Occur Min	0	
Field Max	126		Occur Max	1	
Char Types	U		Special Chars	Any	
Format	n/a		Constraints	None	
Code List					
Source	"ANSI/NIST ITL 1-2013"				
XML Level 1	biom_1:CBEFFImage(1...1)/biom_2:ImageCaptureDetail(1...1)			Cardinality	1...1
XML Level 2	biom_1:CaptureLocation (0...1)/biom:LocationAlternateGeographicSystemValue (1...1)			Cardinality	0..1
XML Level 3	biom_2:GeographicLocationText			Cardinality	0..1
XML Level 4				Cardinality	
DoD EBTS 1.2	No	DoD EBTS 2.0	No	DoD EBTS 3.0	Yes
				DoD EBTS 4.0	Yes

Integrated Data Dictionary (IDD) for DoD EBTS v4.0

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Biometric Data Block

Mnemonic	DATA	Conditionality	D
		Status	Active
Description	This mandatory field contains the fingerprint image. See Section 7.2 of ANSI/NIST ITL 1-2011 for details.		
Field Min	1	Occur Min	1
Field Max	Unlimited	Occur Max	1
Char Types	B	Special Chars	None
Format	n/a	Constraints	None
Code List			
Source	"ANSI/NIST ITL 1-2013"		
XML Level 1	biom_1:CBEFFImage	Cardinality	1..1
XML Level 2	nc:BinaryBase64Object	Cardinality	1..1
XML Level 3		Cardinality	
XML Level 4		Cardinality	
DoD EBTS 1.2	Yes	DoD EBTS 2.0	Yes
		DoD EBTS 3.0	Yes
		DoD EBTS 4.0	Yes