

## ANSI/NIST-ITL 2015 XML Encoding, NIEM 4.0.1 version

The purpose of the ANSI/NIST-ITL transmission specification is to facilitate inter-agency sharing of biometric data by defining a common message format, which it may also be extended to suit each individual agency.

This specification defines the content, format, and units of measurement for the exchange of fingerprint, palm print, plantar, facial/mugshot, scar mark and tattoo (SMT), iris, DNA, and other biometric sample and forensic information that may be used in the identification or verification process of a subject. This information is primarily intended for interchange among criminal justice agencies or organizations that rely on automated identification systems which use biometric data for identification purposes.

This IEPD contains the ANSI/NIST-ITL 2015 xml schema (itl.xsd) and the necessary NIEM 4.0.1 subset schemas to allow a contributor to develop their own ITL transaction profile. While the ITL schema defines the parameters of a biometric exchange package, the contributor must define specific messages or “Types of Transactions” (TOTs), desired subject biographic details, and any necessary narrowing of the ITL parameters to suit their systems and exchanges. Adopters should note that ANSI/NIST-ITL is intended to be extended by a Domain or Application Profile, or both. Relevant documentation is contained in the [documents](#) folder:

[ANSI/NIST-ITL 2015](#)

[Errata to ANSI/NIST-ITL 2015](#)

Contributors creating a Domain or Application Profile may add to the NIEM subset by uploading the [wantlist.xml](#) to the NIEM SSGT tool and adding items as necessary to support their exchange.

This version of the ANSI/NIST-ITL deviates from previous encodings in certain aspects where an exact capture of the specification would not be logical in an XML construct. Specifically, elements redundant in nature, meaningless in an XML context, or fixed values were removed. These deviations were all approved by a consensus of the XML Working Group:

- \* A Transaction Content (1.003 CNT) subfield (FRC) was removed. This is a constant value.
- \* Record Header (X.001 RCC) elements were removed. The same information is conveyed in each case by the name of the Record Type.
- \* Minutia Format (9.004 FMT) was removed. The same information is conveyed by the name of the Minutiae element.
- \* Two M1 CBEFF Information (9.126 CBI) subfields (CFO, CFT) were removed. These are constant values.
- \* Two M1 Ridge Count Information (9.138 RCI) subfields (FI1, FI2) were removed. These have no values, serving merely as “padding” in the traditional encoding.