



System of Systems Engineering & Integration (SoSE&I) Directorate

Network Integration Evaluation 14.2 Industry Day

June 25, 2013

DESIGN / DEVELOP / DELIVER / DOMINATE

SOLDIERS AS THE DECISIVE EDGE

**Mr. Terry Edwards
Executive Director**



The diagram illustrates the DoD Information Management Strategy, showing the flow from requirements and architecture to design and development, with various stakeholders and capabilities involved.

Stakeholders and Inputs:

- Program Executive Offices / Acquisition Programs:** Represented by a star icon.
- Science & Technology:** Represented by a shield icon.
- Army Materiel Command:** Represented by a shield icon.
- Threat:** Represented by a red star icon.
- ASA(ALT) System Architect...**: Develops System Views, including system specific architectures.
- Common Operating Environment (COE)**: A central hub for data and information.
- Technical Architect...**: Oversees the Joint Technical Architecture – Army.
- DoD Chief Information Officer (CIO/G6)**: Oversees the Joint Technical Architecture – Army.
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Core Architectures and Processes:

- System of Systems Reference Architectures**: A central hub for data and information.
- System of Systems Engineering**: A central hub for data and information.
- Brigade Modernization Command**: A central hub for data and information.
- Network Integration Evaluation**: A central hub for data and information.
- 2 Brigade, 1st AD**: A central hub for data and information.
- Operational Capability Sets**: A central hub for data and information.
- Network Capability Set**: A central hub for data and information.
- Institutional Capability Sets**: A central hub for data and information.

Design and Development Phases:

- Design**: Includes Formations & Force Basing, Posts/Camps/Stations, and Institutional Capability Sets.
- Develop**: Includes Execution, Prioritization & Resourcing, and Capital Planning & Investment...

Supporting Elements:

- Standards, Enabling Infrastructure & Cyber Security**: A central hub for data and information.
- HQDA Capital Planning & Investment...**: A central hub for data and information.
- TRADOC/Army Architecture Integration Center**: A central hub for data and information.
- Operational Architect...**: Develops Operational Views... operational requirements of our Soldiers.
- Systems, Family & System of Systems**: A central hub for data and information.
- Logistics & Sustainment**: A central hub for data and information.

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Network Capability Set

Institutional CS (notional)

Enterprise Component Capabilities

Network Capacity Domain Capabilities (Connect and Operate)

Global
(Computing and Storage)

Long Haul

Core
(Computing and Storage)



Enterprise Services Domain Capabilities (Share)

Collaboration

User Access
Portal



Enterprise
Application Software

Content
Discovery

Respond
(Common Core)

Content Delivery

Content
Management

Business Process
Management

Records
Management

Service
Strategy

Network Operations and Security Domain Capabilities (Access and Defend)

Workforce
Training

Standards and
Business Rules



Recruit and
Retain

Protect the
Network

Secure Access

Respond
(Secure Network)



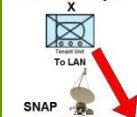
Network Utility

Network
Management

Multi-Protocol Label
Switching
Installation Gateway

Regional Hub Node

Base Camps

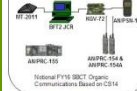


LAN: NIPRNET, SIPRNET, MPE



Base Camp Communications

Unit Organic Communications



Extra Small Base Camp



LAN: NIPRNET, SIPRNET, MPE

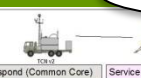


Base Camp Communications

Unit Organic Communications



Small Base Camp

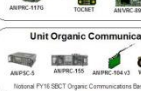


LAN: NIPRNET, SIPRNET, MPE



Base Camp Communications

Unit Organic Communications



Medium Base Camp

WIN-T Inc II

FBCB2-BFT II JCR

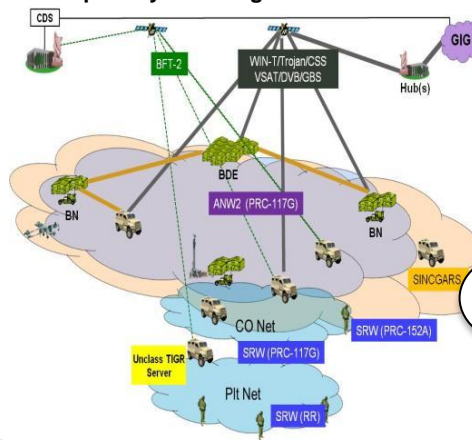
AN/PRC-117G (v4)

HMS ManPack Radio Rifleman's Radio

NETT Warrior

Software Block 11-12

Operational Capability Set – Brigade Combat Team



SRW – Soldier Radio Waveform

Installation Component Capabilities

Network Capacity Domain Capabilities

Long Haul

Short Haul

Mobility (end
user devices)

Local Computing
and Storage

End User Computing at
Post/Camp/Station

Enterprise Services Domain Capabilities

Collaboration

Content
Discovery

Respond
(Common Core)

Service
Strategy

User Access
Portal

Content Delivery

Network Operations and Security Domain Capabilities

Workforce
Training

Recruit and
Retain

Secure
Access

Protect the
Network

Respond (Secure Network)

Network Enterprise
Center (NEC)

Plus Tailored Mission Packages for Power
Projection Platforms, Industrial Bases, Training
Bases, and Mobilization Stations and Armories

Operational CS (notional)

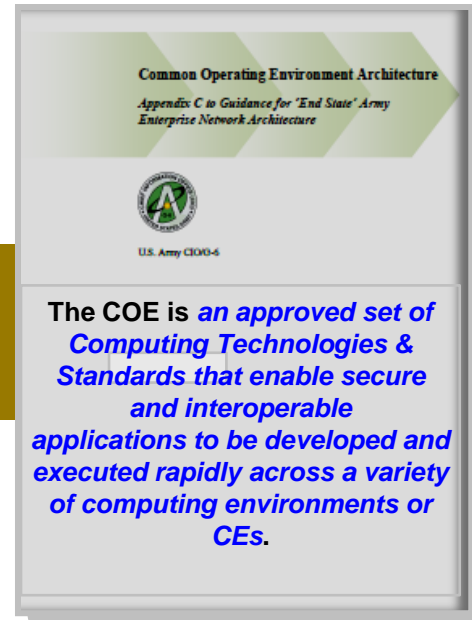
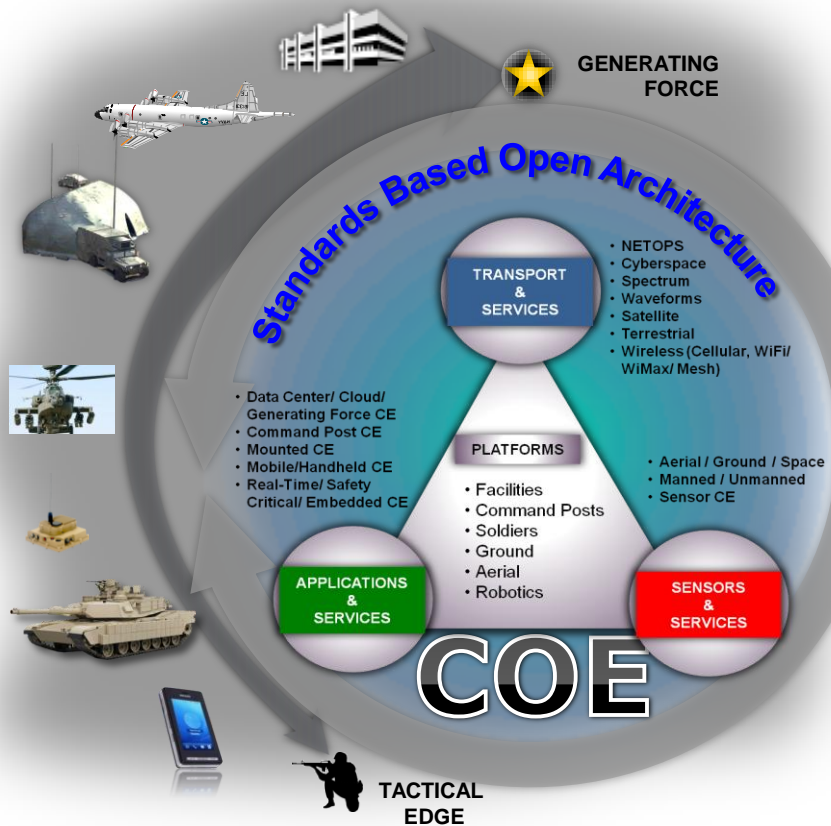
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Shaping the Army's COE?



The COE is *an approved set of Computing Technologies & Standards that enable secure and interoperable applications to be developed and executed rapidly across a variety of computing environments or CEs.*

CE LEADS:

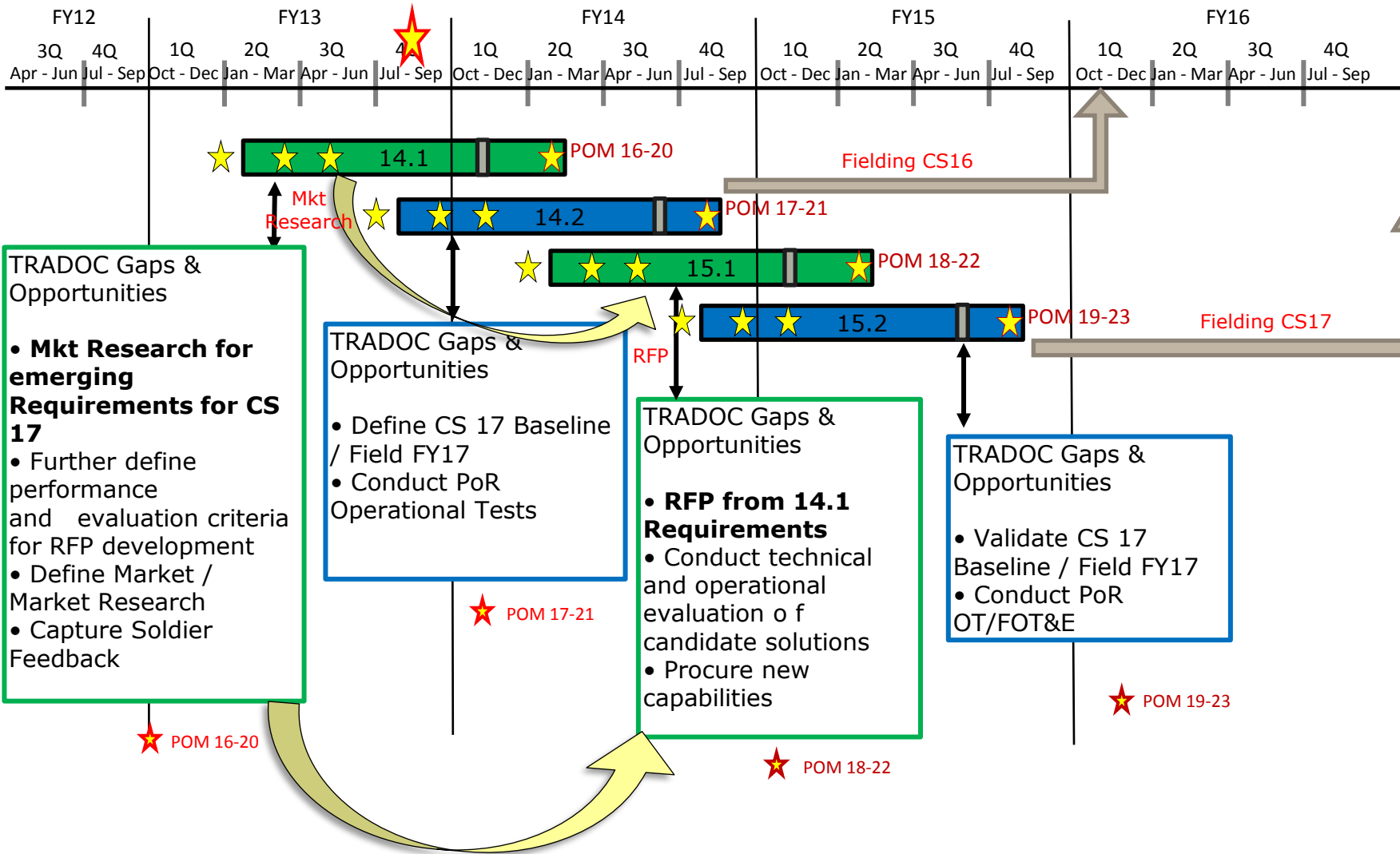
- Mobile/Handheld CE-PEO Soldier
- Mounted CE - PEO C3T
- Command Post CE - PEO IEW&S & C3T
- Data Center/Cloud/Generating Force CE - PEO EIS
- Sensor CE - PEO IEW&S
- Real Time /Safety Critical/Embedded CE - PEO Aviation

Organized into Six Computing Environments (CEs)

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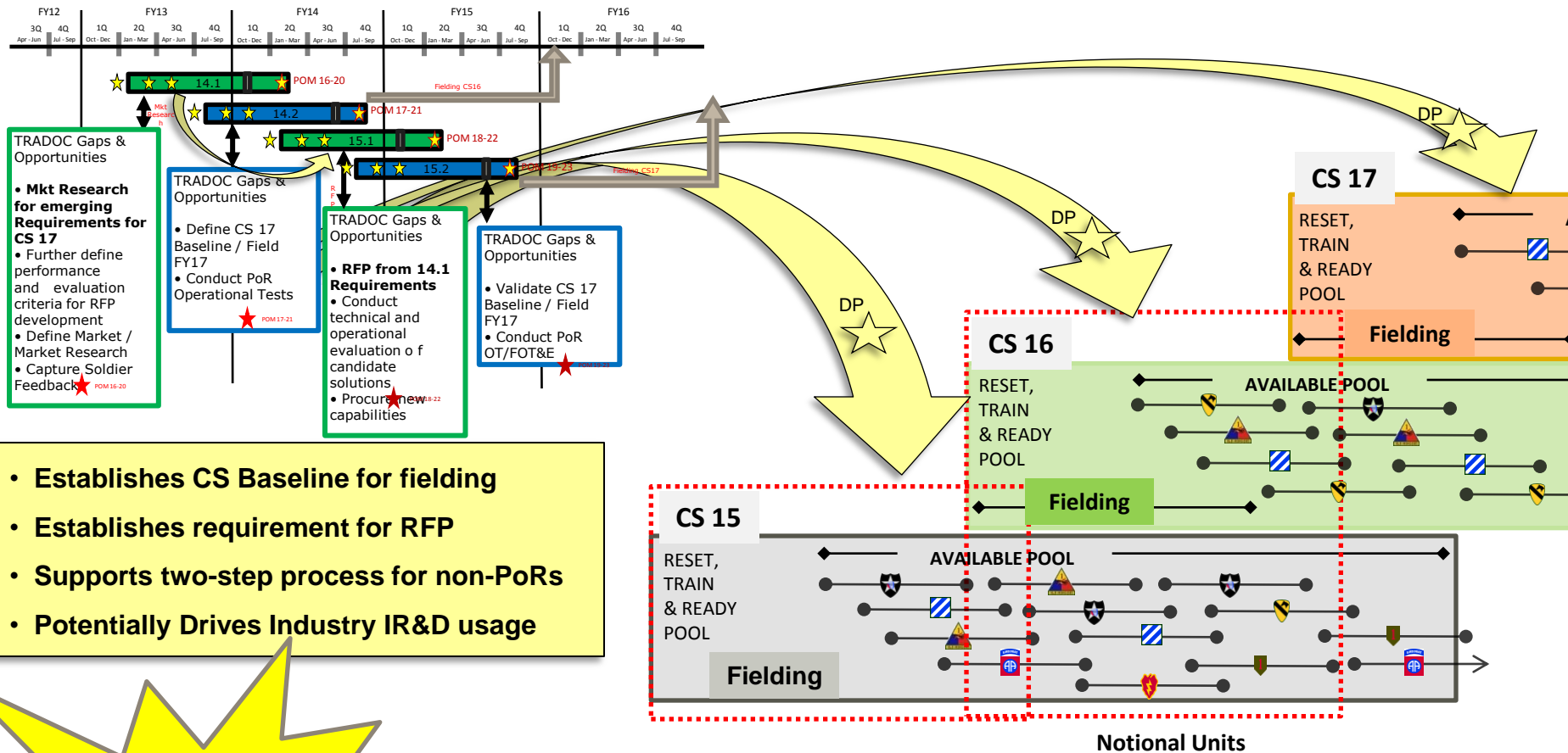




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Integrating Capability Into The Force



Aligning the Network Against ARFORGEN and Capability Set Management

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NIE Lessons Learned and Corrective Actions based on Industry Feedback

More Timely Communication with Industry through all phases

1. Insert post-DP1 communication check point with Industry
2. Target dates for timely evaluation reports post-DP2 for NIE for rejected candidates
3. Timely issuance of final assessments within 60 days of event completion

More Clarity in communication with Industry during the NIE Candidate Evaluation Process

1. Candidate Selection Process more clearly outlined and defined in Sources Sought
2. Roles and Responsibilities for systems more clearly defined in Sources Sought
3. Notification letters will more clearly communicate next steps, deliverables, key dates, and request acknowledgement of accepted candidate responsibilities
4. Investigate a file-sharing portal that we can grant Industry access to
5. Investigate a web-based white paper submission process to eliminate email overloads and processing errors when receiving white papers
6. Improved technical feedback by including all reports from all events

Improved Communication with SUEs During the NIE

1. Implement Weekly System Review meeting to provide coordinated guidance and POC information on behalf of TRIAD and to provide vendors a forum for resolving issues and questions
2. Clarity in communicating requirements, responsibility, and guidance for participants during NIE

Improved coordination across the TRIAD and ASA(ALT) communities

1. Initiation of PEO Alignment early in the Agile Process (Pending signature)
2. Initiation of PEO Alignment with DP3 recommendations (Pending signature)
3. Utilizing the SOS GOSC to inform the PEO Communities to generate support

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Summary



WHAT THE NIE MEANS FOR THE ARMY:

- It's a new and evolving way of doing business—a fundamental change in how we deliver capabilities to our Soldiers
 - Increased awareness and dialogue across government and industry
 - Increased access for competitive solutions
 - Solicitations targeted against prioritized gaps and requirements
 - Opportunity to do system integration before fielding to the force
 - Exposes capabilities to the Soldier faster than traditional Acquisitions
 - Streamlined Acquisition Opportunities apposed to the Traditional Acquisition efforts
 - Demonstrated capability in a field environment
 - “Try Before you Buy” - Emerging Technologies
 - Reduced cycle times
- Provides integrated, end-to-end capabilities to the networked leader
- Exposes Capabilities to the Soldier faster than Traditional Acquisitions
- Validates the Network Capability Set
- Provides preliminary integration designs for Capability Set execution

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