

AUSA ILW PANEL

2010-10-25T18:30:00Z

*Transforming
LandWarNet:
Implementing the
Enterprise Strategy*



LTG Jeff Sorenson

Chief Information Officer/G-6, HQDA

**AMERICA'S ARMY: THE STRENGTH OF THE NATION
ARMY STRONG**



Agenda



CONUS-Based & Expeditionary

Network End-State

- ◆ A Soldier's Story
- ◆ GNEC Objectives
- ◆ Army Enterprise Network
- ◆ OPVAL II

'To Be' Architecture

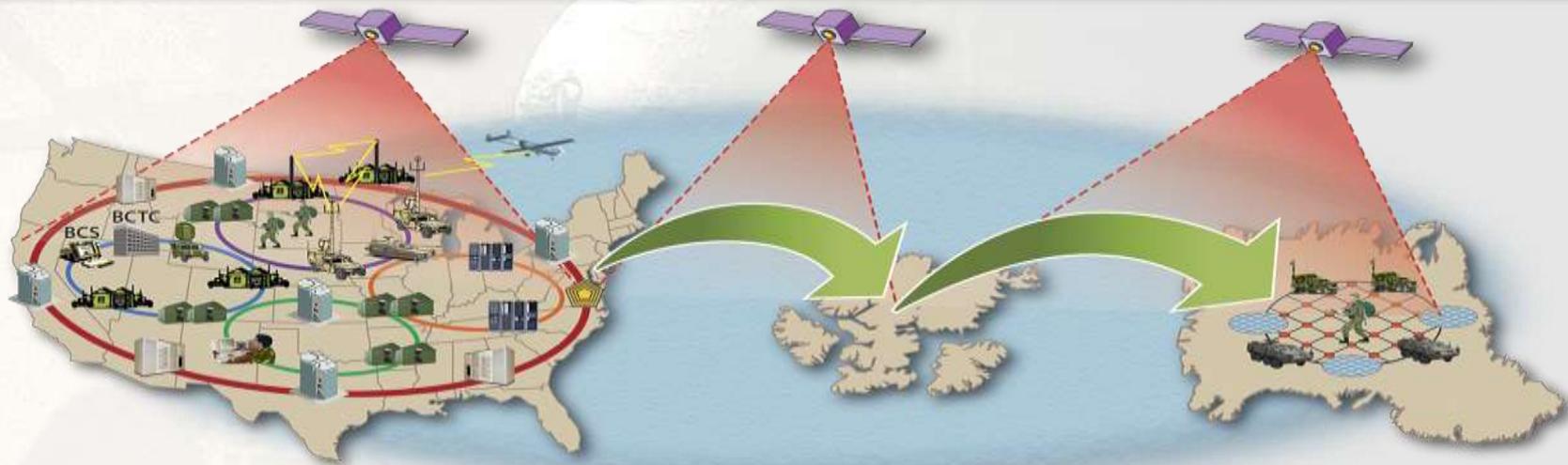
Enterprise Initiatives

Conclusions





CONUS Based & Expeditionary



Army's relevance to a JFC will be in part defined by our **responsiveness**

Responsiveness is dependent upon **expeditionary capabilities**

Many expeditionary capabilities are **NETWORK** dependent

“We’re building an Army that is a versatile mix of **tailorable** and **networked** organizations operating on a **rotational basis** ... to provide a **sustained flow** of trained and ready forces for **full spectrum operations** ... and to hedge against **unexpected contingencies** ... at a tempo that is predictable and sustainable for our **all-volunteer force**.” – Chief of Staff Army, 6 Apr 2010



Soldier's Story Network End-State



CSA Memorandum: LandWarNet – Global Network Enterprise Construct Strategy Implementation, 2 March 2009

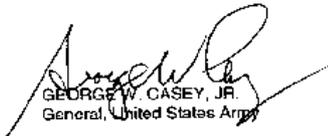


UNITED STATES ARMY
THE CHIEF OF STAFF

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: LandWarNet – Global Network Enterprise Construct

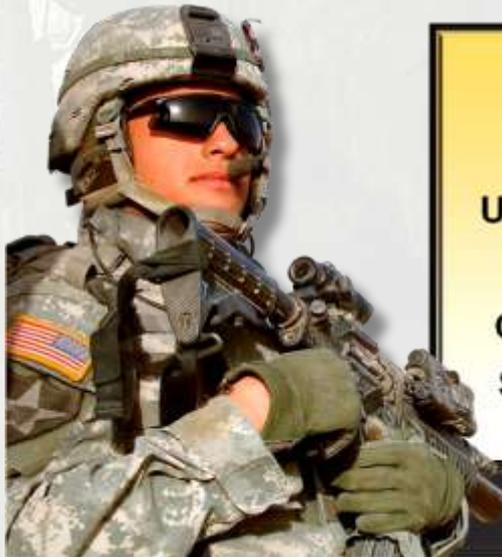
1. We are transforming to become a fundamentally different Army expeditionary force capable of full-spectrum operations. To support this transformation, we will fundamentally change and adapt our institutions, including LandWarNet to a centralized, more secure, operationalized, and sustainable network capable of supporting an expeditionary Army in this era of persistent conflict. To lay the foundation for further network expansion in the future, we will synchronize this transformation with other Army activities including the Army Force Generation model, Base Realignment and Closure, and Global Defense Posture Realignment. In FY09, we will set the foundation for the global network by achieving an initial operating capability of a network service center (NSC) in Europe; expanding these NSCs throughout all other Theaters by FY11.
2. We will use the Global Network Enterprise Construct (GNEC) as the network enterprise strategy. The CIO/G6 will establish new procedures to operationalize the network and improve the overall security of network services and capabilities. We will modify purchasing procedures to achieve better efficiencies in the procurement of our IT systems, and we will pursue joint interoperability with our other Service partners as we construct our network enterprise.
3. In the end, all Army generating force networks will be managed by a single command (Network Enterprise Technology Command (NETCOM)) organizing Army information to make it globally accessible, useful and secure for Soldiers deployed anywhere in the world.
4. The establishment of the Army global network enterprise requires dramatic changes to our current processes and network operations. Our combat-seasoned force is the best in the world, and transforming our network enterprise is central to a land force capable of conducting full-spectrum operations in the 21st Century. Your support is essential for our success.



GEORGE W. CASEY, JR.
General, United States Army

“Over the next three years, the Army will transform LandWarNet to a centralized, more secure, operationalized, and sustainable network capable of supporting an expeditionary Army in this era of persistent conflict.”
– Chief of Staff, Army

A Soldier's Story



Ideal End-State

- One Global Network
- Universal E-Mail Address
- Universal File Storage
- One Telephone Number
- Standard Collaboration Tool Set

ARMY STRONG. 



GNEC Objectives



Operationalize LandWarNet to enable global warfighting capability



Dramatically improve Network Defense posture

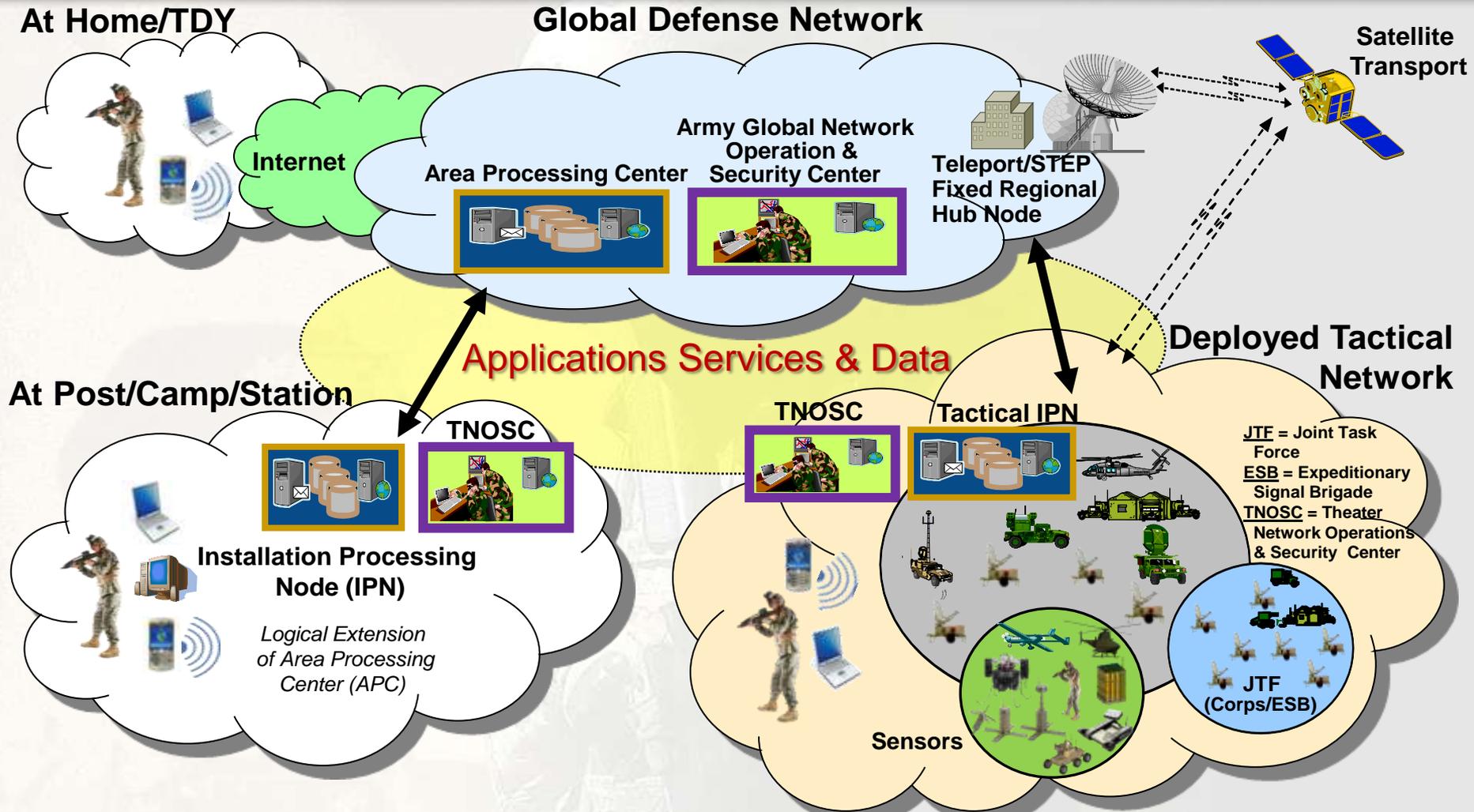


Realize Economies and Efficiencies while improving Effectiveness



Enable Army Interoperability and Collaboration with mission partners

Army Enterprise Architecture



JTF = Joint Task Force
ESB = Expeditionary Signal Brigade
TNOSC = Theater Network Operations & Security Center

Reset (Phases 0-1) ↔ Transition ↔ Deploy (Phases 2-5)

Always Accessible by the Soldier

Proving the Concept: OPVAL-II

Demonstrate Operational Capabilities

- **Early collaboration.** Maintain continuous access to data resources across space & time utilizing a single, persistent tactical identity
- **Fight upon arrival.** Rapidly deploy to an austere environment, fight upon arrival, seize & maintain the initiative without loss of operational tempo or situational awareness
- **Enterprise Battle Command.** Command & control widely-dispersed forces through NSC-provisioned warfighting services



75th Fires Brigade

- Deploy a BCT-sized unit leveraging the range of global network enterprise capabilities through all phases of its deployment in FY11
- Deploy all BCT-sized units relying on the range of global network enterprise capabilities through all operational phases NLT FY12

– GEN George Casey, Chief of Staff Army

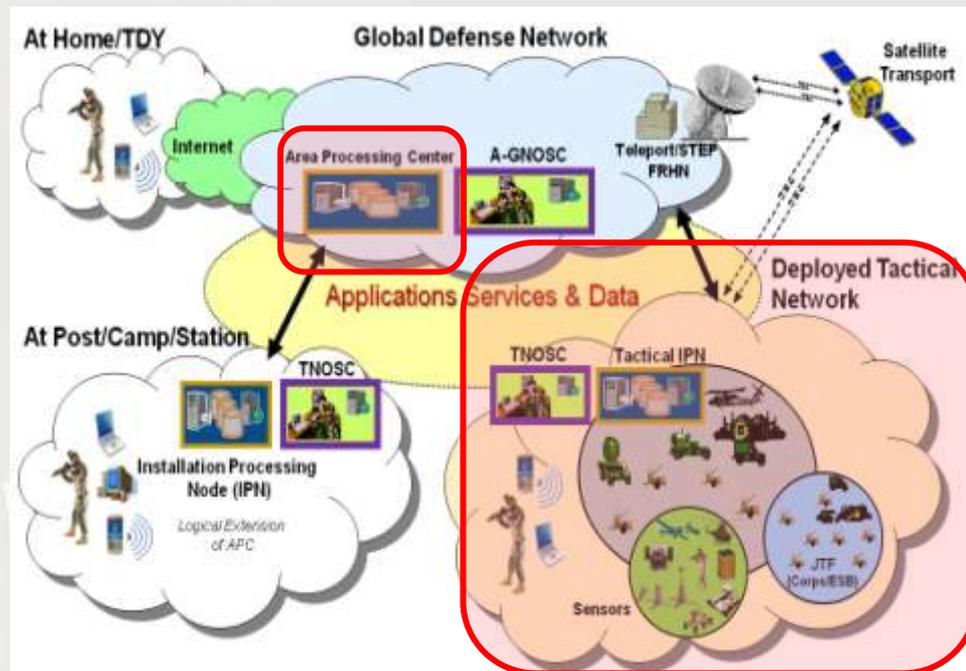


Establishing Enterprise 'To Be' Architecture



What We Have Done

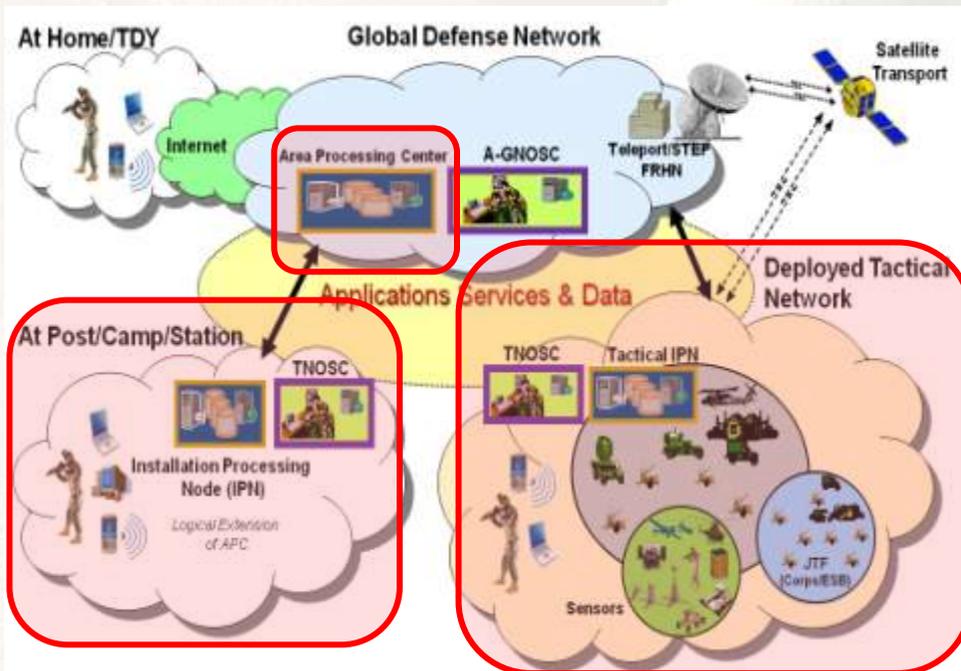
- **Tactical Network Architecture**
- **Common Operating Environment Architecture (Draft)**
- **Area Processing Center Architecture**
- **“To-Be” Architecture available at:**



<http://ciog6.army.mil/ToBeArchitecture.aspx>



Establishing Enterprise 'To Be' Architecture

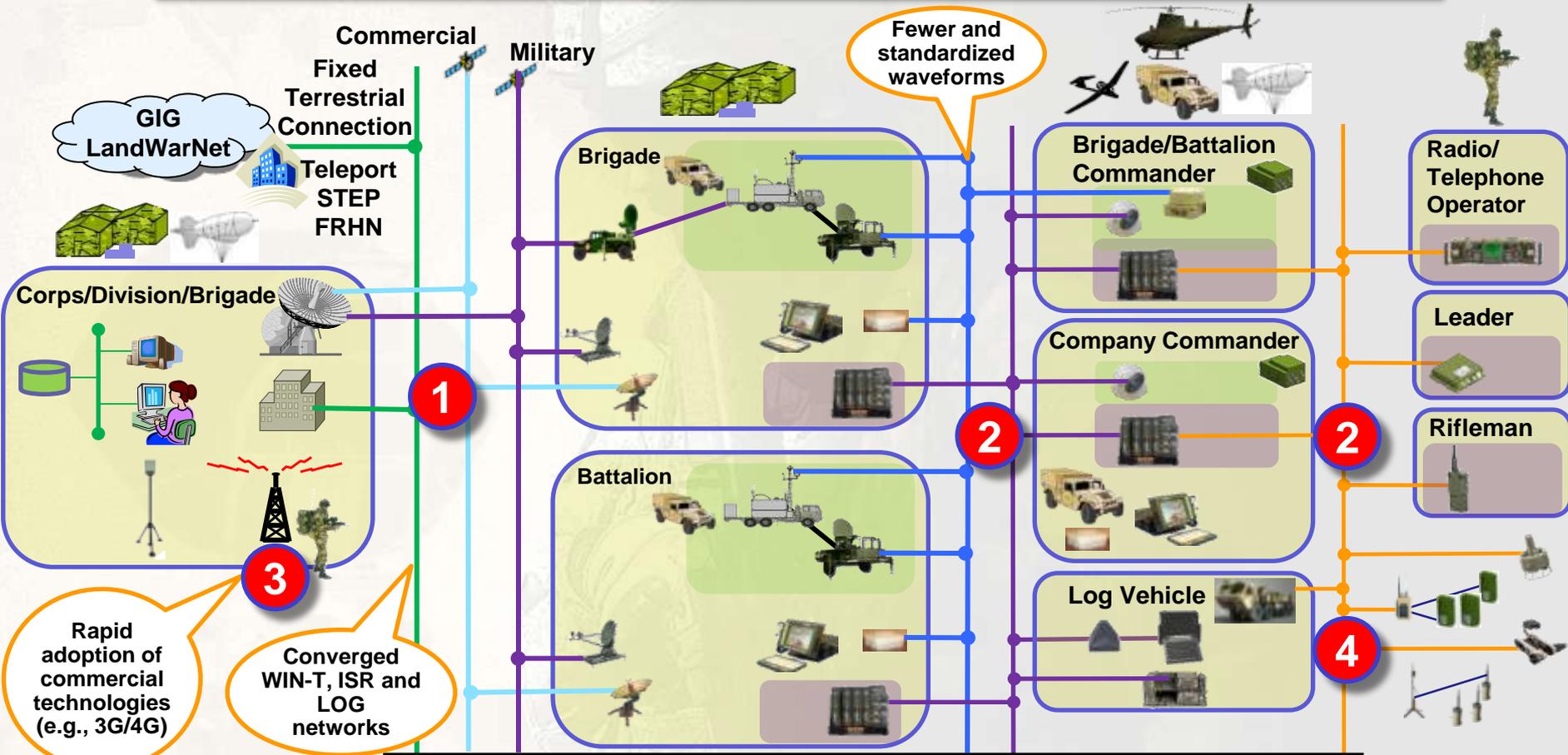


- ## What We are Doing
- **Common Operating Environment Architecture (Final)**
 - **Installation (Post/Camp/Station) Architecture**
 - **Information Assurance Architecture**
 - **Geo-spatial Architecture**

Army Network Enterprise Alignment for POM 13-17

'To Be' Network Architecture

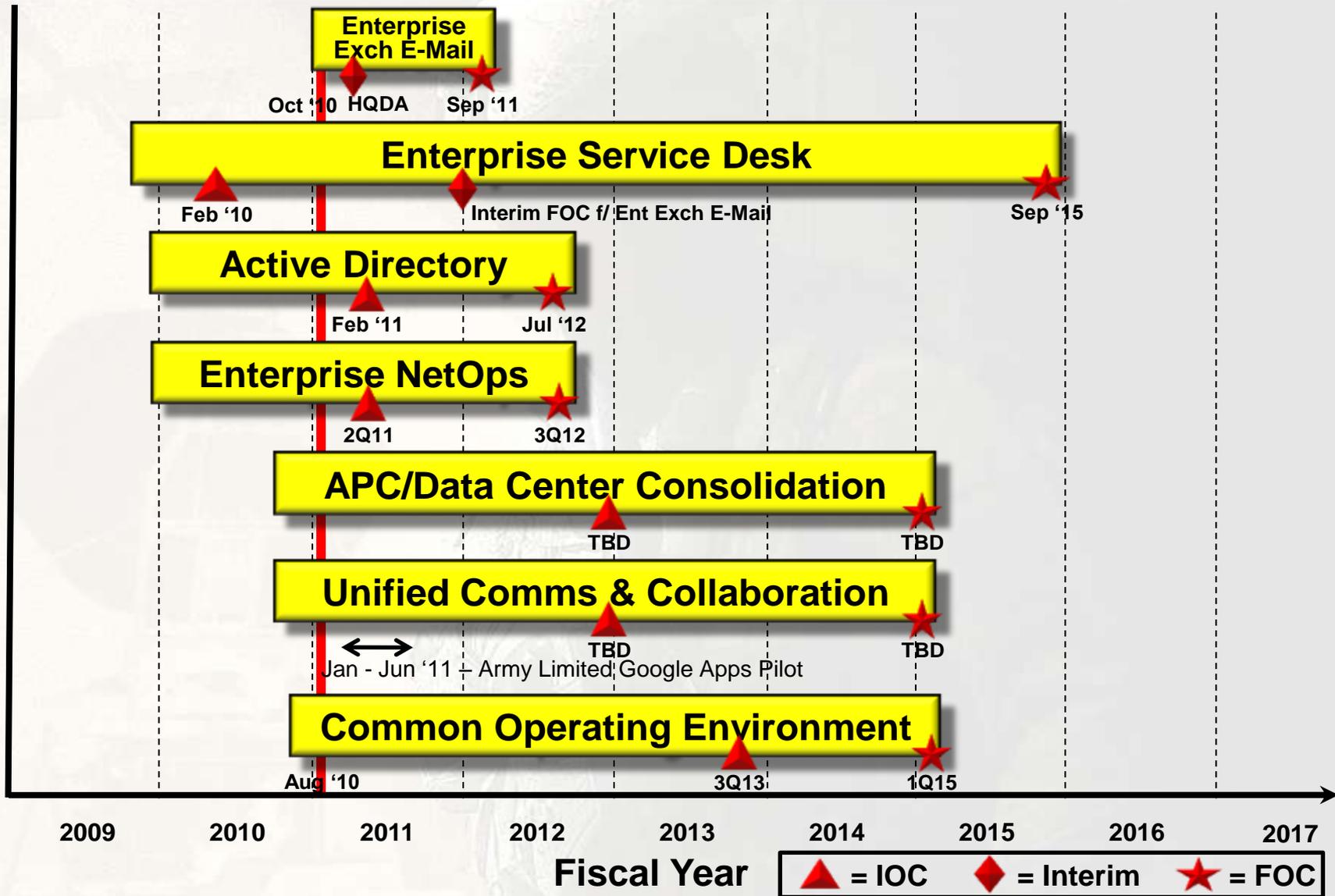
Numbers represent Common Operating Environment Control Points for Interoperability, Information Assurance and Gateways



All systems riding a common, interoperable EoIP Backbone establishing a 'plug & play' environment



Enterprise Implementation Timeline





Apps for the Army (A4A)



A4A Challenge – 1 March-15 May

- 141 Soldiers & Army civilians registered
- 53 web and mobile app submitted
- 25 apps passed certification & testing

Download Apps
from DoD
Storefront

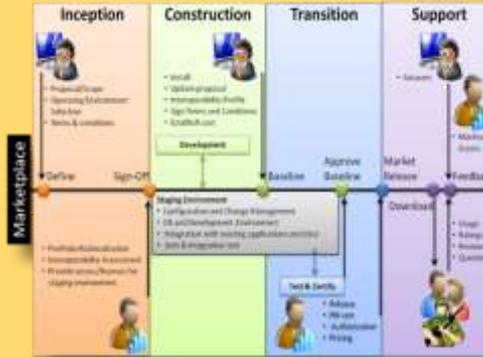
<https://storefront.mil/army/>

Web & Mobile CEs



- Access to mobile development (iPhone, Android, BB)
- Sponsored pilot supporting PM, BC next tactical server capability – Tactical Server CE, SDK, Documentation Streamlined Process

Test & Certification



- Assessed Inception Phase; surfaced PAO, OPSEC, Legal issues and info gaps
- Investigated CoN issues
- Sponsored pilot to evaluate Interface-Based Testing

Army App Store



- Leveraged DoD to stand-up Army Storefront for winners
- Established initial marketplace capabilities; exercised user feedback (ratings)
- Sponsored pilot study on monetization models

Beginning Nov – Quarterly Windows for App Submission



Apps for the Army – Industry Challenge



Prepare



- Identify Gaps via FORSCOM / ARCIC Problem Statements
- Use Social Network to Validate and Refine
- Provide COE/CE standard configurations in staging environment

Launch



- Test Requirement Validation environment
- Engage potential sites (e.g. Challenge.gov) to launch A4A – Industry
- Exercise Marketplace Automated Workflow to manage est. 500 entrants

Results



- Marketplace social ratings/metrics used to determine winners
- Test potential vehicles (e.g. Apps.gov) to evaluate monetization
- Move closer to formalize a new SW environment

NOTE: Pre-Decisional – Under Development



Conclusions



④ **Army CONUS-Based Strategy**
...transforming to an Expeditionary Army



④ **Army Enterprise Architecture**
...connect Users with Apps & Data at all locations

④ **Enterprise Initiatives**
...achieving efficiencies & information sharing

④ **Shared Situational Awareness**
...Bottom Line for the Joint Warfighter



QUESTIONS + THOUGHTS



LTG Jeff Sorenson

Chief Information Officer/G-6, HQDA

**AMERICA'S ARMY: THE STRENGTH OF THE NATION
ARMY STRONG**