



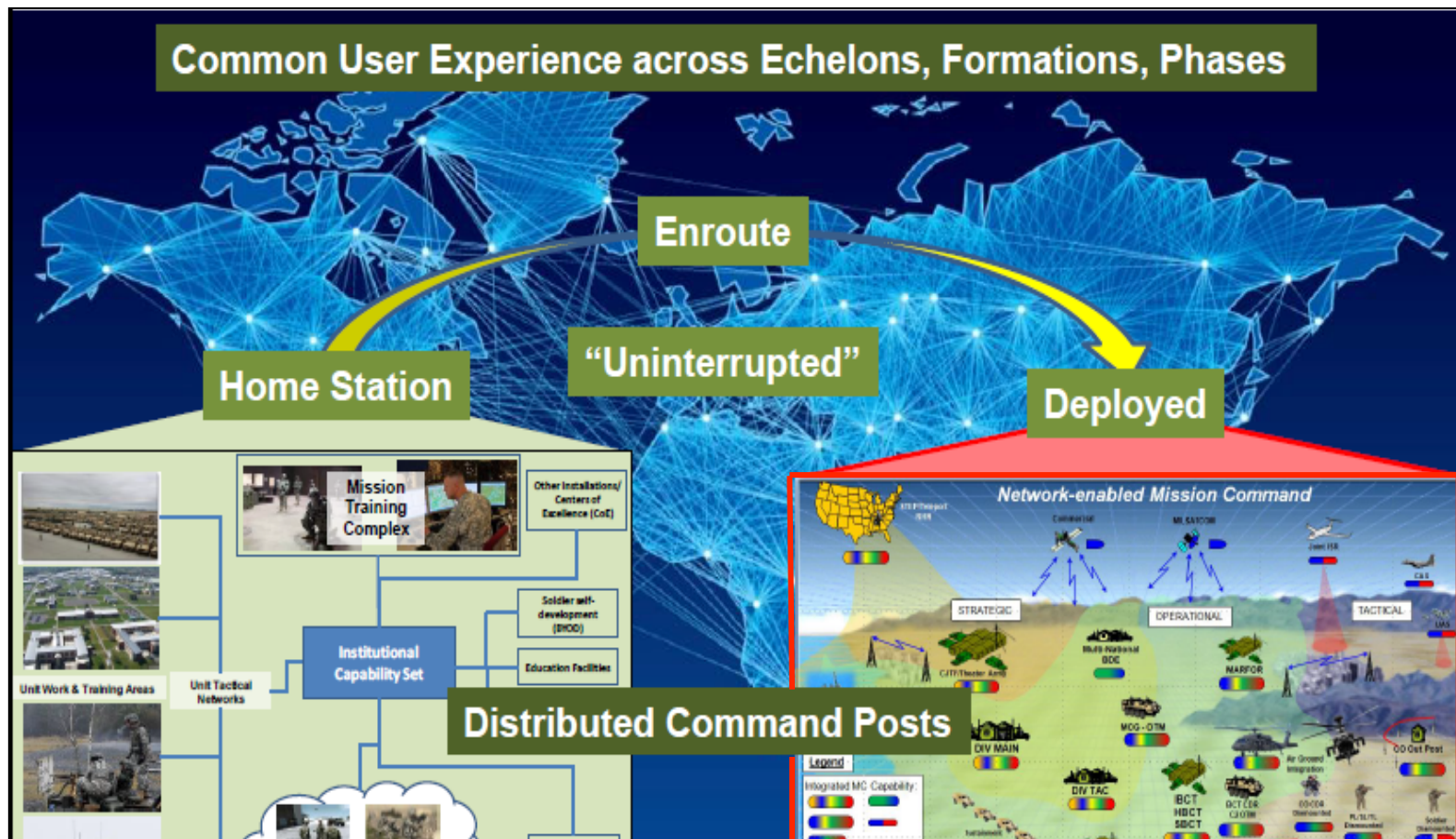
PEO C3T PD Cyber Operations & Defense

20 May 2015 Jerry Cook





Army Mission Command Network Vision



“Achieve distributed, uninterrupted mission command through a network comprised of intuitive, secured, standards-based capabilities integrated into a common operating environment....”

Source: ARCIC, The Mission Command Network Vision and Narrative, Final Draft, Dec 2014





Networking an Expeditionary Force



- En Route Mission Command provides critical situational awareness and planning in the air
- Small satellite dishes, MUOS and JBC-P enable early-entry operations
- Agile, expeditionary Command Posts supported by secure Wi-Fi and CP CE



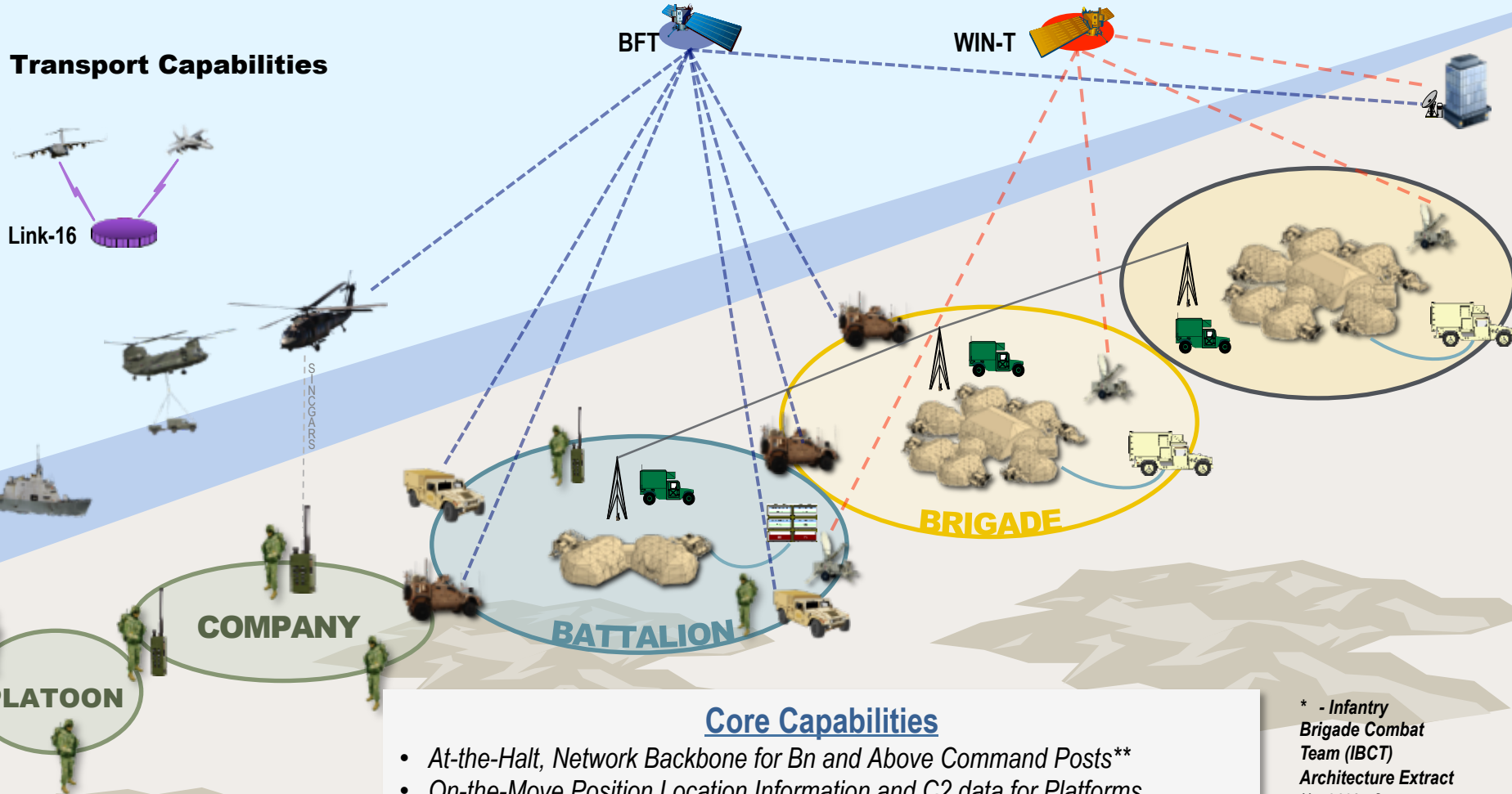


Current Mission Command Network Capabilities



What is Fielded Today (Non Capability Set Units)*

Transport Capabilities



Core Capabilities

- At-the-Halt, Network Backbone for Bn and Above Command Posts**
- On-the-Move Position Location Information and C2 data for Platforms
- Voice radios for Command Posts, Platforms, and Dismounted Soldiers
- Thick-client Mission Applications supporting Command Post operations
- Multiple ONS/JUONS-driven Network Capabilities

* - Infantry
Brigade Combat
Team (IBCT)
Architecture Extract
**- 93% of
Force fielded
WIN-T Inc 1,
7% fielded
WIN-T Inc 2

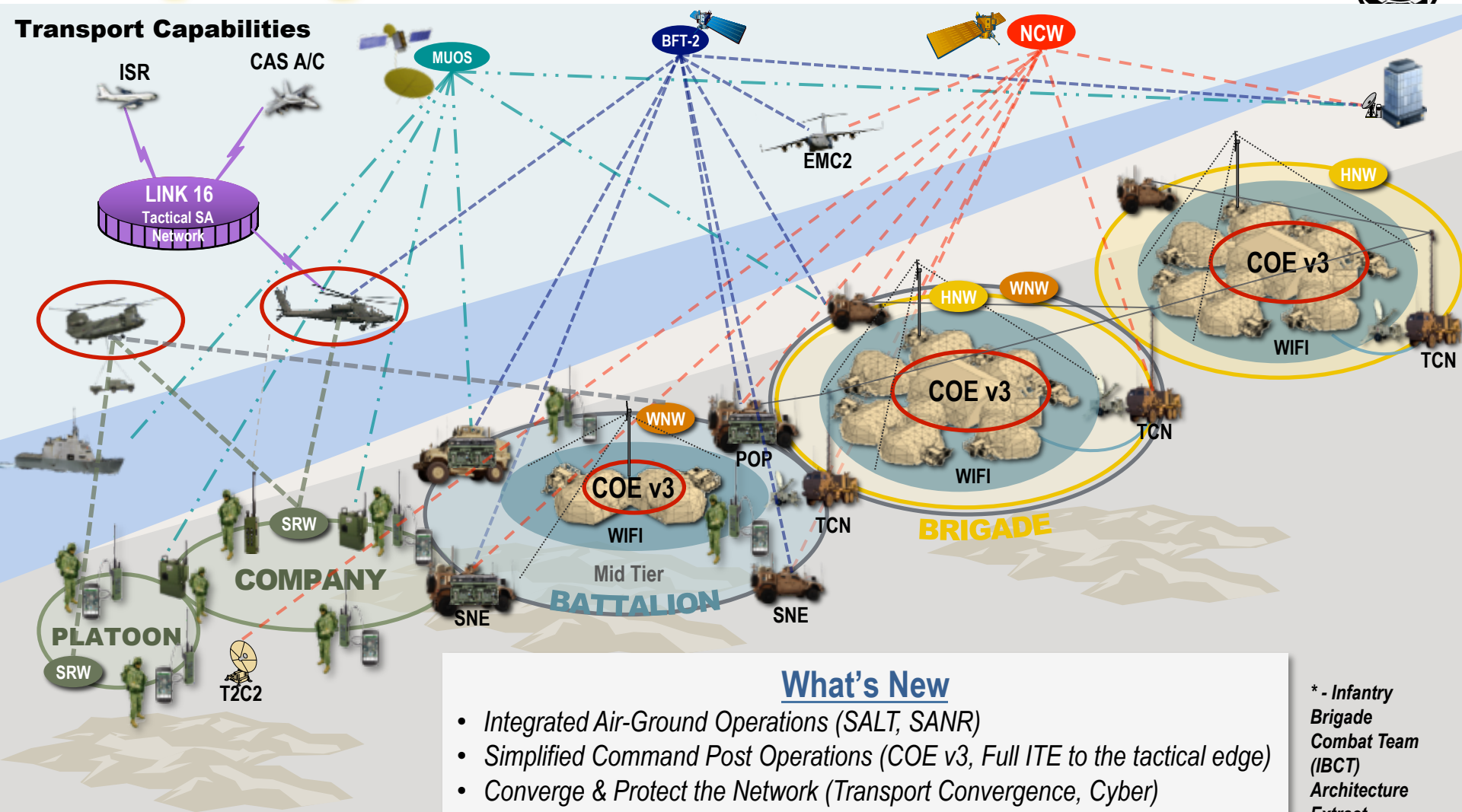




Capability Set 20 Overview*



Transport Capabilities



What's New

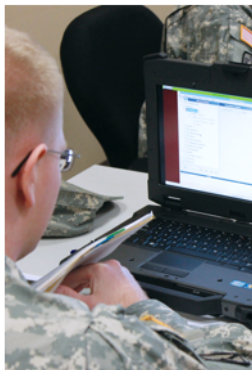
- Integrated Air-Ground Operations (SALT, SANR)
- Simplified Command Post Operations (COE v3, Full ITE to the tactical edge)
- Converge & Protect the Network (Transport Convergence, Cyber)
- Rapid Unit Task Reorganization (UTR Standards)

* - Infantry
Brigade
Combat Team
(IBCT)
Architecture
Extract





Organized for the Mission



PM MC

Project Manager:
COL Michael Thurston

Deputy Project Manager:
Mr. Rob Tisch

Description: PM Mission Command develops, deploys and sustains integrated, intuitive and adaptive mission command and situational awareness capabilities to the Army and Joint forces.

PD Net E

Project Director:
Mr. Stan Niemiec

Deputy Project Director:
Mr. Randy Young

Description: PD Network Enablers provides the products that serve as critical enablers for the Army's tactical communications and data network capabilities, supporting security, standards, policies, planning and initialization.

PM TR

Project Manager:
COL Jim Ross

Deputy Project Manager:
Mr. Michael Payne

Description: PM Tactical Radios provides units with voice and data radio capabilities they need to rapidly exchange information. Soldiers can communicate seamlessly in any terrain, for any mission, to the furthest tactical edge.

PM WIN-T

Project Manager:
COL Edward Swanson

Deputy Project Manager:
Mr. Mike Hedley

Description: PM Warfighter Information Network-Tactical is the Army's current and future tactical network backbone, providing the satellite-based communications capabilities that enable Soldiers to send and receive information in order to execute the mission.

PM JTN

PM Joint Tactical Networks:
CAPT Kevin Peterson

Description: PM Joint Tactical Networking develops, enhances and maintains all current and future Joint networking waveforms and network managers.

JTNC

Director:
Mr. Russ Wygal

Description: Joint Tactical Networking Center facilitates lower cost radio procurement through open standards and certification of waveform-based interoperability for Joint and Coalition forces.

Cyber

Director:
Mr. Emerson Keslar

Description: Cyber Operations & Defense provides a full-spectrum, system-of-systems approach to advancing and synchronizing cyber security, information assurance and information management across PEO C3T.





PD Cyber Operations & Defense



Mission: To provide a full-spectrum, system-of-systems approach to advancing and synchronizing cyber security, information assurance and information management across PEO C3T and support ASA(ALT) & Department of Defense activities to maintain a defensible network.



Single synchronization point to enable information security and compliance across the PEO, PMs and tactical systems

ASA(ALT) Cyber Acquisition Task Force lead for PEO C3T

Collaborate with Industry and Science & Technology Focal

Work together with the Army Training and Doctrine Command, higher Commands and other organizations to ensure a defensible architecture to provide secure operational capabilities

Enforcement of red team/blue team findings on PEO systems

PEO coordination of cyber ranges to test network capabilities, defenses and vulnerabilities for operations in cyberspace

Responsible for implementing policies, standards and procedures to ensure a secure information-sharing

Cyber Situational Awareness coordinating activities

Educate and keep PMs informed of cyber security policies and guidance

Lead technical cyber strategies across the PEO to include Tactical Public Key Infrastructure (T-PKI), Identify Access Management and Patch Management

Provide reporting, assessments, recommendations, synchronization, and engineering support for cyber security for all PEO C3T programs





PEO C3T Cyber Focal Areas



Governance & Compliance

- Information Classification
- DIACAP, IAVM, STIGS, HBSS
- Risk Management Framework
- Standards & Policy

Cryptography

- Digital Signatures
- Public Key Infrastructure
- Encryption Software

Network Security & Management

- VOIP & Router Security
- Patch and Vulnerability Assessments
- Network Operations
- Data Log Management

Access Control

- Role Based Access Control
- Authentication
- Password Policies

Data Security

- Security Controls
- Cybersecurity testing and best practices
- Data at Rest & In Motion
- Data classification
- Big Data Analytics

Security Architecture & Testing

- Intrusion Detection Systems
- Threat Analysis
- Migration to Cloud Model
- Red/Blue Team Analysis
- National Cyber Range Engagements

• PROTECT DETECT REACT ADAPT DENY •

