Joint Interagency Multi-National Tactical Networking for the Future

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America’s Army: The Strength of the Nation
Army Strong

2011-11-09T12:00:00Z
Agenda

★ Changing World

★ Changing Defense Environment

★ The Network Must Bring to Bear All Functions

★ An Operational View

★ Game Changers

  • The Warfighting Effect - Afghanistan Mission Network
  • Common Operating Environment (COE)
  • Network Integration Evaluations (NIEs)
Our World is Changing...

Speed, Scale, Flexibility, Replication

Economic Recovery...
GDP Growth

Global Competition

Businesses Networked IT as Differentiator

New Threats...
Evolving Everyday

Safety & Security

Public Sector Spending

Technology & Business Architecture

Emerging Markets

Social Networking

Broadband

Innovation

Information Age

Networked Age

Cutting-Edge Technology, in Particular Cyber-Related Resources, will Continue to Become Cheaper and More Widespread, Even to Those with Minimal Financial Means
...So is the Defense Environment

Collaboration is Not Optional
- Joint Operations: Army, Navy, Air Force, Marines
- Coalition Operations: Global War On Terrorism, Peace Keeping Operations, Humanitarian Relief

Enterprise to the Edge… “From the Cloud to the Warfighter”
- Across the Department of Defense
- Operationally Effective and Efficient

Across Boundaries: Ground, Sea, Air, Space, Cyber
- Horizontal and Vertical Integration

Agility, Flexibility, Resiliency, and Security
- Response Time Will Continue to Shrink
- Have to Hit the Ground Running
The Network Must Bring to Bear All Functions

Global Access

Warfighting Operations

Business Operations

Collaboration

Sensor Video

CPOF

Telephony

Imagery

Collab Plan

Chat

VTC

E-mail

Collab Plan

Global Access

Mission Command

Protection

Operation & Manoeuvre

Intel

Logistics

Training

Personnel

Acquisition

Force Mgt

Installation & Environment

Legislative Affairs

Public Affairs

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The Operational View

Computing Environment
- Cloud
- Market Place
  - Services & Applications Built on Standards
  - Hosted in a Market Place
  - Capability Available to all via the COE

Network
- Communication

Sensors & Platforms
- Connected via the Network, Extending the Network to the Warfighter at the Edge
- End Users
  - Connected via the Network - Vehicle Acts as a Common Access Point for Warfighters

Back End ➔ Transport ➔ Front End

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"The Effect" – Afghanistan Mission Network

Training Real-Time How We Will Fight

“This is the best game changer preparing us for deployment.”

-- MG James L. Huggins, Jr.
Commanding General
82d Airborne Division

Key Element of AMN Concept – Connected at Home Station

Leveraged to Enhance and Improve Pre-Deployment Training

CENTRIXS-ISAF (CX-I)...The US Component of AMN - Over 40 Sites in CONUS

**Common Operating Environment…**

**“The Big Game Changer”**

Stringent Technical Standards for both Network Infrastructure and Applications

- Reduces Redundant Fieldings Across Programs (e.g., MTS and FBCB2 Both Fielding GPS Systems When one Suffices)
- Reduces Integration Complexity (e.g., MRAP and Stryker Vehicles – Today each Application has its Own Hardware – Need One Computing Environment For Vehicles that All Applications Can Operate on)
- Aligns PEOs to Provide Products Across Programs (i.e., PEO Soldier Provides Mobile/Handheld Devices to all PEOs/PMs)

- Directs Integration of Multiple Applications/Mission Command Systems on Single Hardware Platforms
- Changes the Way we Field Applications (Apps Store, Faster, Cheaper, Pulled – not Pushed)
- Leverages More COTs and Emerging Technologies by Using Control Point Testing vice Complete Systems Test (Key to Network Integration Evaluations)

MTS

GPS

FBCB2
Network Modernization

- Incremental Modernization Through Capability Sets
- Establishing an Integrated Network Capabilities Baseline

Semi-Annual Network Integration Evaluations Conducted by the Brigade Modernization Command
- Providing Testing & Operational Feedback to Inform Investment Decisions
- Facilitating a New Agile IT Acquisition Process

A SIPRNet/NIPRNet Access Point (SNAP) terminal is shown in the mountains of White Sands Missile Range. SNAP terminals, fielded by Project Manager Warfighter Information Network-Tactical (PM WIN-T), are designed to provide beyond line-of-sight communications to small units at forward operating bases (FOBs), providing network capability down to the team, platoon and company level.

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Questions + Comments