7th Signal Command (Theater)

AFECA Belvoir Chapter Luncheon
Brigadier General Rob Parker

21 February 2023
7th Signal Command (Theater)
Mission Statement

The Army’s premier communications provider with global reach, the 7th Signal Command enables the Army's ability to build, train, compete, fight, and win across complex Joint & Coalition Multi- and All-domain environments.

Serves as the NETCOM operational Headquarters in the NCR; executes theater-level DODIN operations; plans and delivers continual improvements to the Unified Network to provide the CONUS digital infrastructure required by National Leaders, the Joint Force and the Army for data-driven operations and decision making.
7th Signal Command (Theater)
Commanding General’s Vision

The 7th Signal Command operates as a people-centered organization, built on the foundational elements of personal character, mutual trust and unwavering commitment to duty, all of which are underscored by high levels of operational and technical competence.
MISSION: The Army’s premier communications provider with global reach, the 7th Signal Command enables the Army’s ability to build, train, compete, fight, and win across complex Joint & Coalition Multi- and All-domain environments.

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NETCOM PRIORITIES

LOE 1 - People
• Recruit, Develop, Manage and Retain a Highly Qualified and Agile Workforce
• Cultivate Innovative, Adaptive, Resourceful, Motivated, and Selfless Professionals

LOE 2 - Readiness
• Conduct Effective DoDIN-A Operations
• Resource the Network
• Execute Effective Compliance and Inspection Programs
• Conduct NETCOM Mission Command

LOE 3 - Continuous Improvement
• Optimize the Network and IT Services
• Continuously Improve to Achieve a Unified Network

LOE 4 - Reform
• Improve Organizational Processes and Procedures
• Converge Army Network and IT Services
• Develop Divestment Opportunities

7TH SC(T) PRIORITIES

Establish 7th Sig as ARCYBER’s 3rd NODE in the NCR
• Coordinate and synchronize with the Joint Global Enterprise - DISA and JFHQ DODIN
• Coordinate and synchronize with key NCR stakeholders in the DODIN-A arena - PED - C3T, PED-EIS, Network Cross Functional Team (CFT), CIO/G-6.

TOP OPTIMIZATION & UNIFIED NETWORK PROJECTS

Internet Protocol v6: Supports DoD ZTC 2.1, 5.1, 5.4
Comply-2-Connect: Achieves DoD ZTC 2.2, 2.3
BYOD & VDI: Supports DoD ZTC 2.4
Flexible SIPRNet/CSfC: Facilitates Zero Trust
ORGNET Convergence: Facilitates Zero Trust
Voice Mod 2.0. Aligns to Army Unified Network Plan

MAJOR SUBORDINATE COMMANDS OF 7TH SIGNAL COMMAND (THEATER)

Army Enterprise Data Centers

2016 - 300+
2025 - 4

Cultivate Workforce Talent
Recruit and retain a resilient workforce, develop intellectual firepower via education and training

Execute DoDIN Operations
Maintain Cyber Security - Operate, Maintain, Secure Army Networks
Execute Command and Control - Execute RMF

Set the Theater
Converge Data Centers - Execute ORGNET Convergence Establish and Maturity NETCOM NCR - Dissipate Legacy Technologies

Continuous Improvement Activities

A Single, Resilient, Survivable, Federated Network and Information Ecosystem

Operations and Maintenance (Army Funds)

$550M (Annually)

$350M
FY18
FY19
FY20
FY21
FY22

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Current as of 15 FEB 2023
Enabling information dominance from the tactical edge to the home station for the Army, Department of Defense, and international partners by acquiring, implementing and sustaining strategic satellite and terrestrial communication systems.

**GLOBAL ENTERPRISE NETWORK MODERNIZATION – AMERICAS (GENM-A)**
- Installation IT Modernization (CONUS)
  - Voice Services
  - Data (NIPR/SIPR/other)
  - Infrastructure (Fiber/Copper)
  - Home Station Mission Command Centers
  - Strategic Command Centers
- Innovation / Technology Demonstration
  - Best practices and technology demonstrations
  - SD-WAN / LAN
  - Zero-Trust Solutions
  - Piloting new technologies
  - Network Modernization baseline changes

**GLOBAL ENTERPRISE NETWORK MODERNIZATION – OCONUS (GENM-O)**
- Installation IT Modernization (OCONUS)
  - Voice Services
  - Data (NIPR/SIPR/other)
  - Infrastructure (Fiber/Copper)
  - Strategic Command Centers

**WIDEBAND ENTERPRISE SATELLITE SYSTEMS**
- SATCOM Ground Segment Modernization
  - DoD SATCOM Gateway Ground Terminals
  - Baseband Systems
  - Modems
  - Encryption
  - Routing/Switching
  - Power & Timing
  - Satellite Payload Control Tools
  - Planning
  - Monitoring
  - Management
  - Senior Leadership Communications Link (SNLC)

**BASE EMERGENCY COMMUNICATIONS SYSTEM (BECS)**
- Critical Comms Integration and Modernization
  - Computer Aided Dispatch (CAD)
  - Enterprise Mass Warning and Notification (EMWN)
  - Land Mobile Radio (LMR)
  - Wireless – First Responder Broadband Network (FRBN)
  - Next Generation 911 (NG-911)
LOE3: NETCOM Continuous Improvement
Top Optimization & Unified Network Projects Alignment to Zero Trust

Key:
- Achieves a ZTC
- Supports a ZTC
- Facilitates ZT
- Aligns to AUNP but not ZT
- ZT Opportunity

Data Tagging (enable move to data-centric security)

IPv6

Cloud-Based Internet Isolation

Comply to Connect

Universal Secure Access (SASE-Like access)

BYOD & VDI

Organizational Network Convergence

Zero Trust Gap Analysis*

AO Consolidation/ RMF 2.0

Army Enterprise Service Mgt Platform (AESMP)

SIPRNet Infrastructure Modernization

Google Workspace Proof of Concept

Flexible SIPRNet Access (CSIC)

Army Futures CMD Network & Services

Future Global Enterprise Fabric

Voice Network Modernization

Army Circuit Consolidation

Convert AEDC to Private Cloud

*Zero Trust Analysis will determine the additional work required to achieve a full Zero Trust Architecture
DoD Zero Trust (7 Pillars, 45 Capabilities, 152 Activities)

**EXECUTION ENABLERS**
- Doctrine
- Organization
- Training
- material
- Leadership & Education
- Personnel
- Facilities
- Policy
Zero Trust Efforts: Achieves/Supports Zero Trust
Synchronizing Capabilities and Efforts Over Time

User
- Identity, Credential and Access Management (ICAM)
- Engineer & Implement Active Directory Restructure

Device
- Army Endpoint Security System (AESS)
- Optimize Army 365 (MDE, MDO, Intune, etc.)
- Comply to Connect (C2C)

Apps & Workload
- Develop & Procure New Army Enterprise Service Desk & ITSM Tool (AESMP)

Data
- Data Tagging, Data Rights Management (DRM), Data Loss Prevention (DLP)

Network & Environment
- Develop the Joint Regional Security Stack (JRSS) Transport Replacement
- Implement & Integrate Secure Access Service Edge (SASE)
- Engineer & Implement SIPRNET Infrastructure Modernization
- Conduct IPV6 Proof of Concept and Implement

Automation & Orchestration
- Security Orchestration and Automated Response (SOAR)

Visibility & Analysis
- Unified Security Information & Event Management (SIEM)
**Why Convergence?**

**ARCYBER** is converging Army ORGNETs to achieve the Army vision of a unified enterprise network that aligns a single Army service provider while improving network readiness, standardization, and interoperability; increasing the Army's cybersecurity posture; and enabling rapid DCO response. This convergence sets the conditions to achieve the outcomes defined in the **Army Unified Network Plan**.

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<th>Challenge</th>
<th>Solution</th>
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| - Numerous separate and disjointed organizational networks (ORGNETs) stood up over time to address mission requirements due to service delivery gaps  
  - 60+ designated Authorizing Officials (AC)  
  - Limited ability for effective C2 Cyber Operations  
  - Diminished interoperability & Decreased readiness | - Converge to a single security infrastructure; centralized C2  
  - Increase readiness (security, modernization & standardization)  
  - Standardize IT services  
  - Modernize Army ORGNETs to the same JRSS and DISN transport standards at Army B/P/C/S. |

**Convergence Benefits:**

| |  
|---|---|
| Increased Operational Readiness | Assured availability of unit capabilities  
| Increased Security | Availability of Networking resources  
| Streamlined Mission Command | Agility to access information anywhere in the world  
| Focus on core competencies | Timely sharing and dissemination of information  
| Situational awareness | Freedom to share/disseminate information  

**ORGNET Convergence** brings together, both technically and operationally, all organizational Army networks *under the C2 of the Army’s network provider ARCYBER/NETCOM.*

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Current as of 15 FEB 2023
(U) Fort Gordon, GA CSfC

(U) Site-Specific Capabilities

• (U) End User Device is Unclassified when at rest or disconnected

• (U) NIPRNet VDI

• (U) SIPRNet VDI

(U) FGGA CSfC/FBNC CSfC

(U) Similar Capabilities/Equipment

• (U) Full Windows 10 desktop experience
• (U) Microsoft Office Suite, Adobe, Digitally sign documents, GVS (audio & video), web/SharePoint
• (U) Gordon CSfC Remote Access
  - Laptops
  - Hotspots
• (U) ViSR Remote Access
  - Laptops
  - Internal Hotspots
• (U) Local Access (DoDIN-A)

(U) Fort Bragg, NC CSfC

(U) Site-Specific Capabilities

• (U) Data at rest (DAR-S) is optional capability (10-20% of users)
• (U) Thick Client DAR-S End User Device has additional software/hardware/storage requirements
• (U) Non-DAR End User Device is Unclassified when at rest or disconnected
• (U) SIPRNet VDI only
Closing and Questions