



US ARMY
PEO EIS
PEO ENTERPRISE INFORMATION SYSTEMS

GENM-A / GENM-O BREAKOUT SESSION

LTC Xkoshan Arnold

Product Manager
GENM-A

Mr. Tom Dunaway

Product Manager
GENM-O

November 8, 2022

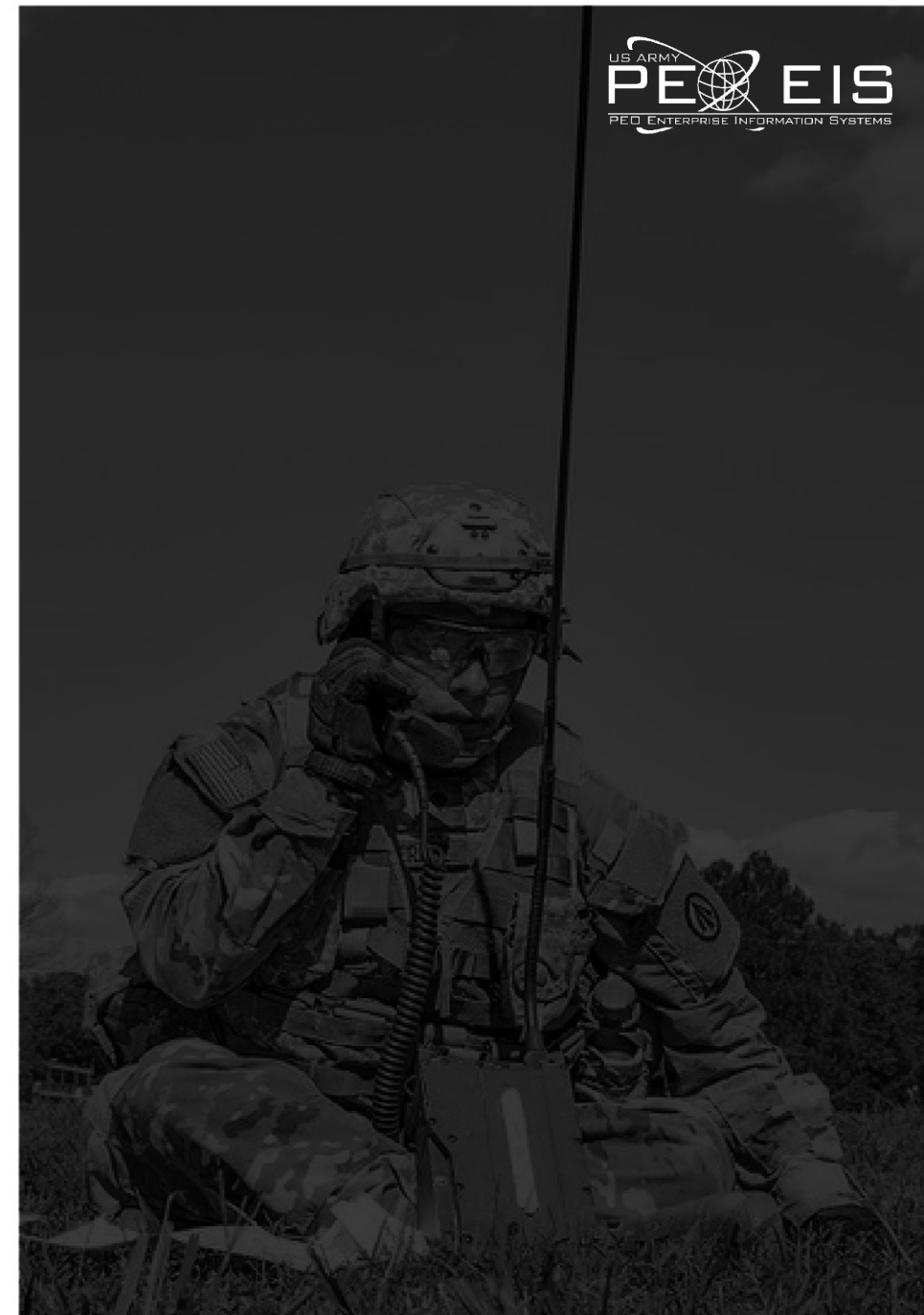


DISTRIBUTION STATEMENT A. Approved for public release. Distribution is unlimited.



Agenda

- Integrated Enterprise Network Overview
- Integrated Enterprise Network Portfolio
- Army G6 Priorities
- GENM-A Overview
- GENM-O Overview
- Path Forward
- Where Industry Can Help
- Questions





Integrated Enterprise Network Overview



Integrated Enterprise Network (IEN) provides the communications backbone and modernizes IT network infrastructure for the globally engaged Army



Project Manager IEN
COL Justin Shell





Integrated Enterprise Network Portfolio

GLOBAL ENTERPRISE NETWORK MODERNIZATION – AMERICAS (GENM-A)



GLOBAL ENTERPRISE NETWORK MODERNIZATION – OCONUS (GENM-O)



WIDEBAND ENTERPRISE SATELLITE SYSTEMS



LAND MOBILE RADIO



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

Installation IT Modernization (OCONUS)

- Voice Services
- Data (NIPR / SIPR / Other)
- Infrastructure (Fiber / Copper)
- Strategic Command Centers

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 Support Communications

- 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)



Army G6 Priorities

- **SIPR Modernization**

- Enterprise Gray Backbone
- Commercial Solutions for Classified
- Current Hawaii effort becomes Army global solution
- Achieve full multi-domain operations by FY28

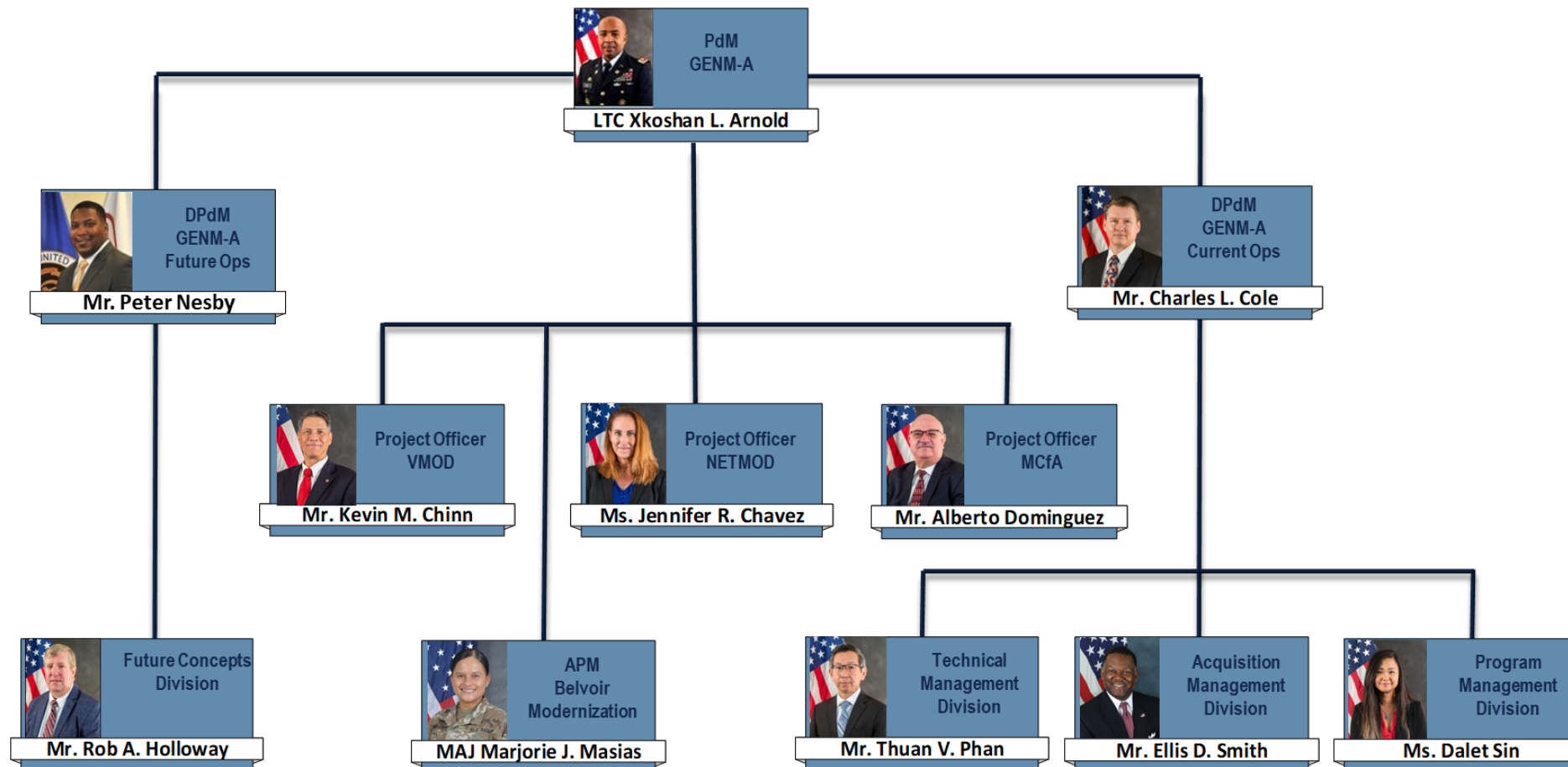
- **Voice Modernization**

- Achieve full Time-Division Multiplex (TDM) De-commissioning
- Reduce hard phone lines to enable overall regional voice modernization plan





GENM-A Leadership



PdM – Product Manager
DPdM – Deputy Product Manager
VMOD – Voice Modernization
NETMOD – Network Modernization
MCfA – Mission Command from Afar
APM – Assistant Product Manager



Vision & Mission



VISION: Enable Unified Network Operations by 2028.

MISSION: Army's total lifecycle acquisition manager chartered with implementing a modernized and standardized Army unified network that is scalable, accessible, flexible, and defensible. Enabling information dominance across all phases of Multi-Domain Operations (MDO) modernizing infrastructure, voice, video, data, and Command Centers using both repeatable product baselines and agile business processes. Leveraging these techniques allows the Army to incorporate cutting-edge technology that affords Warfighter's streamlined access to applications, data, and enterprise services.

TECHNOLOGY INNOVATION



Identify, validate and integrate commercial technologies into the Army network.

- Global SIPR Network (GSN)
- Wi-Fi baseline integration

NETWORK ARCHITECTURE MODERNIZATION



Upgrades the Army post/camp/station (P/C/S) architecture to enable Unified Network Operations (UNO) and Mission Command from Afar through modernizing classified/unclassified data and voice networks.

NETWORK INFRASTRUCTURE MODERNIZATION



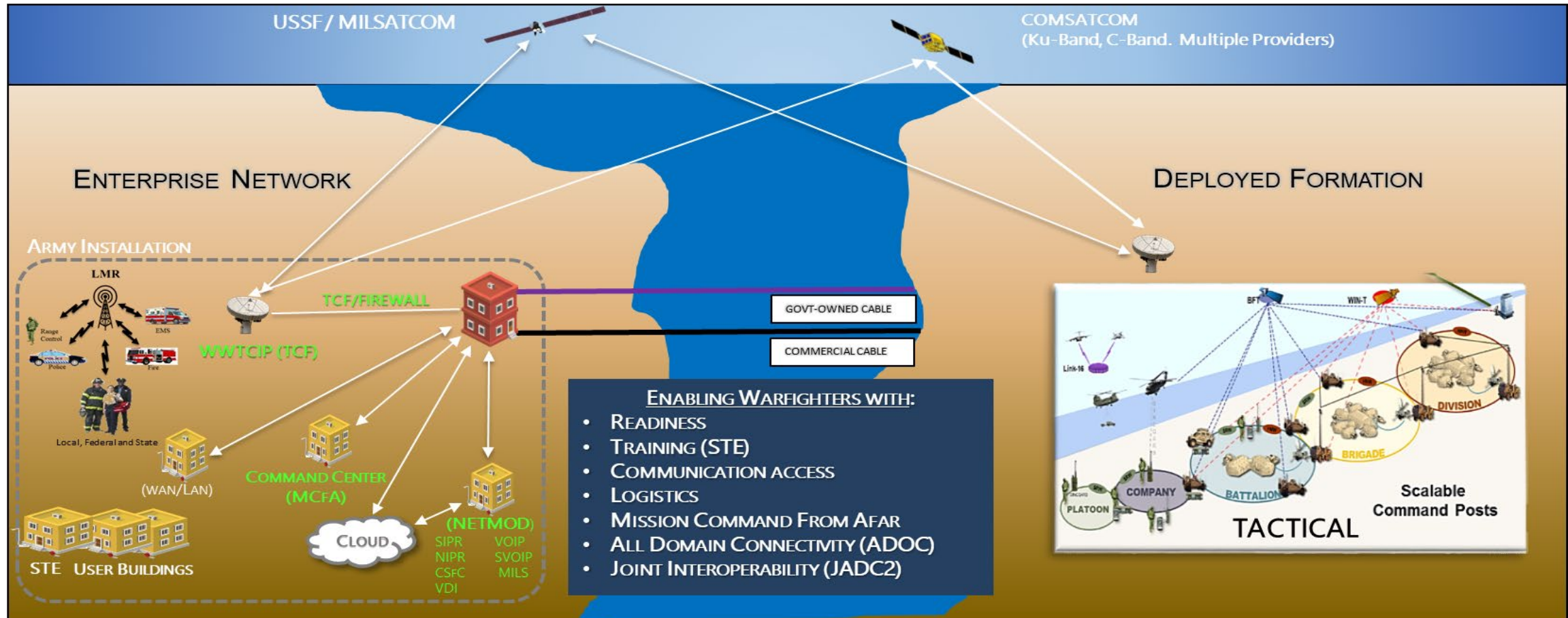
Enables successful network architecture modernization by upgrading the Army P/C/S network infrastructure components.



Operational View (OV-1)



A UNIFIED NETWORK ENABLING TACTICAL EFFECTS

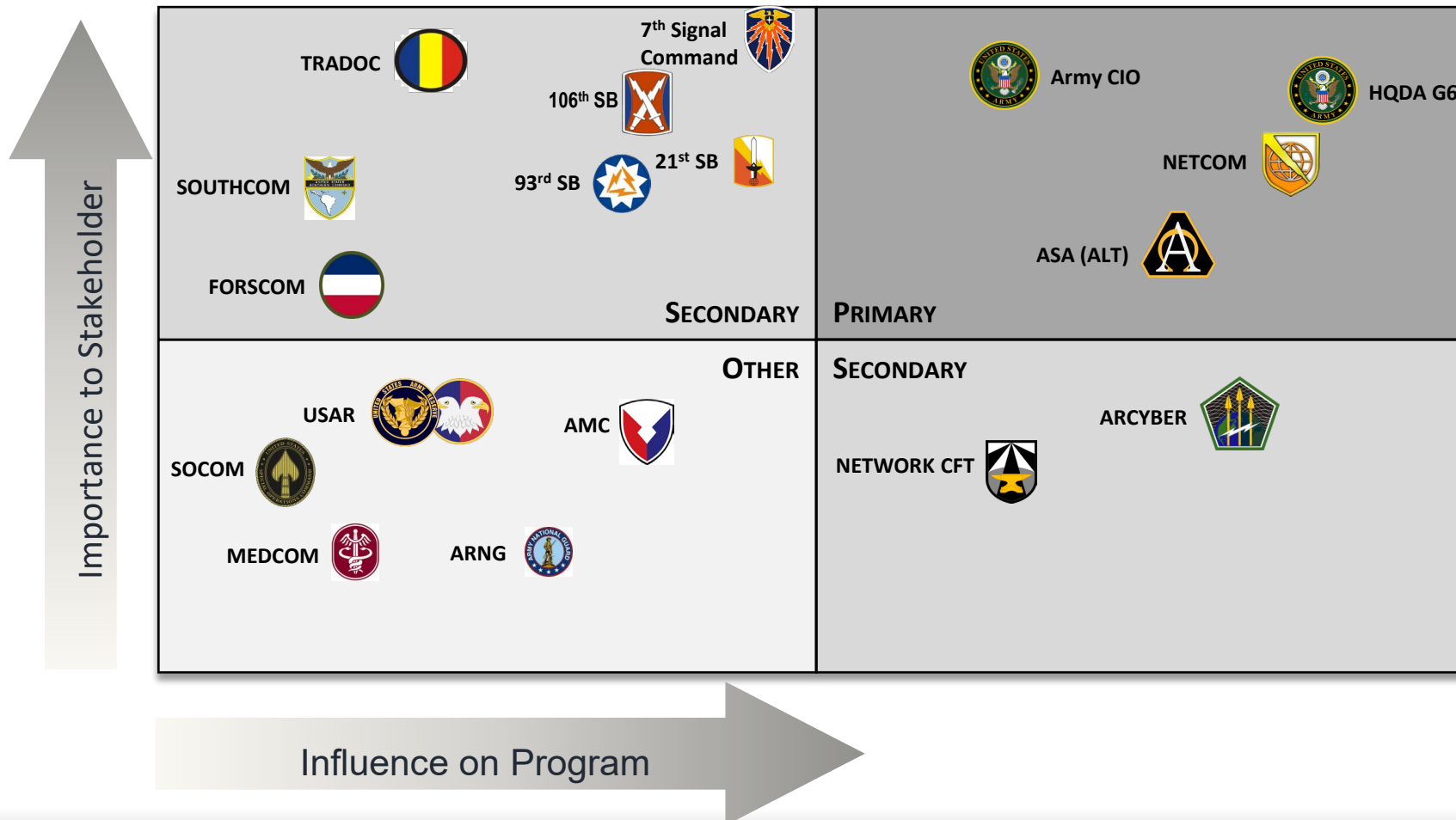


GREEN denotes GENM funded capabilities

Enabling Mission Command and Information Dominance at the Tactical Edge



GENM-A Stakeholder Power Grid



- Continual engagement with all Stakeholders in multiple recurring working groups and forums (annual, semi-annual and quarterly)
- Additionally, we have more in-depth working groups, IPTs, and status reviews at the APM / Action Officer level on a monthly or weekly basis



Enterprise Network Modernization



	FY22	FY23	FY24	FY25	FY26	FY27	FY28			
Network Refresh	Belvoir, Benning, Buchanan, Jackson, Lee, Hamilton, JBSA, Natick, Shelby, West Point, Huachuca, Redstone, Arifjan			Irwin, Leavenworth, Meade, Wiesbaden, Bosnia, SOUTHCOM, Fort Leonard Wood, Pine Bluff Arsenal		APG, Camp Humphreys Phase 1, Letterkenny, Rock Island Arsenal, Fort Detrick, Picatinny Arsenal				
	SWA BOSS Funded Projects: SWA Projects (Customer Funding): Shaw MCP, Arifjan B550 NETMOD, Erbil Air Base ISP/OSP (Iraq), Arifjan SIPR			Anniston Army Depot, White Sands, Jordan Refresh (2 Sites), Korea Refresh Phase 1	Presidio Monterey, Camp Humphreys Phase 2, Detroit Arsenal, Site R, JIATF-S					
	BASELINE – Infrastructure/Network									
	COMPREHENSIVE MODERNIZATION BASELINE – McfA / SIPR / VoIP / WiFi / NETMOD									
Voice Modernization	Drum, Bragg, Rucker, JBLE, Stewart, McCoy, Campbell, Gordon, Jackson, Lee, Benning, Polk, Anniston, Carlisle Barracks, MOT Sunny Point, Picatinny, Soto Cano *VMOD 2.0 NCR: 8 Sites		Mid-West and South-West Region: 11 Sites OCONUS: Ansbach, Benelux, Grafenwoehr Community, Kosovo, Italy							
	West Region: 11 Sites OCONUS: Korea, Kaiserslautern		OCONUS: Stuttgart							
	Contract Award		OBJECTIVE VOICE SOLUTION							
SIPR	Phase 1 Enterprise Gray		Phase 2 S-CSS					Phase 3 VDI + MILS		Phase 4 Scale
	<ul style="list-style-type: none">Contracting ActivitiesSite ValidationEngineering Plan	<ul style="list-style-type: none">Initiate AccreditationEquipment OrderNSA AccreditationEstablish Testing Lab(s)	<ul style="list-style-type: none">Equipment Install/TestDevelop C-CSSIOC/FOC	<ul style="list-style-type: none">Execute CSSDeploy RegionallyVDI Users IOC = 9.8K (\$31M)EUDs = 2500 (\$5M)				<ul style="list-style-type: none">MDO/MILS Users= 15K (22.5M)VDI Users = 3.3K (\$10.3M)EUDs = 2500 (\$5M)	<ul style="list-style-type: none">Expand VDI Users FOC = 9.7K (\$30.6M)Expand MDO/MILS FOC Users = 2K (\$3M)	<ul style="list-style-type: none">Expand VDI Users = 10K (\$31.7M)Expand MDO/MILS Users = 2K (\$3M)EUDs= 2500 (\$5M)

✓ 19 Year Refresh
✓ TDMs Decommissioned FY26
✓ 33K SIPR Users + 19K MILS Users



GENM-A Capabilities



NETWORK MODERNIZATION

NETWORK SERVICES:

- Installation and configuration of network switches to provide NIPR and SIPR capabilities to Army Post/Camp/Station (P/C/S). (LCR Cycle 7 years)

VOICE SERVICES:

- Modernizing P/C/S voice infrastructure to an over Internet Protocol (IP) technology. Divestiture of legacy technology. (LCR Cycle 7 years)

INSIDE PLANT (ISP) UPGRADES:

- Installation/upgrade of Power, UPS, Generators, HVAC and Communications Shelters in support of OSP capabilities. (LCR Cycle 20 years)

OUTSIDE PLANT MODERNIZATION (OSP):

- Trenching, digging, laying conduit and installing fiber and copper to connect network devices on a P/C/S. (LCR Cycle 20 years)

TECHNOLOGY INNOVATION

TECHNOLOGY INNOVATION TEAM:

- Future Capabilities Evaluation
- Demos/scalable pilots/evaluation/proof of concept
- Cost Benefit Analysis

CURRENT/FUTURE INNOVATION CONCEPTS IN DEVELOPMENT:

- Global SIPR Network (GSN)
- Software Defined Wide Area Network (SD WAN)
- Zero Trust Architecture (ZTA)

COMMAND CENTERS

ARMY ENTERPRISE TRANSPORT (AET)

- Army Enterprise Transport (AET), formerly known as Technical Control Facility (TCF), provides a secure demarcation point between the ICAN, LAN, and the tactical network
- AET serves as the Army's gateway that connects the local users to the DODIN-Army (DODIN-A) WAN

STRATEGIC COMMAND CENTERS (SCC)

- Provides core Command, Control, Communications, and Computers (C4) infrastructure for Joint, Coalition and Interagency C4 capabilities at Army and Army-supported command centers (SOUTHCOM, AOC, ANMCC & JSOC)



GENM-A Contracting Strategy



CURRENT CONTRACTS

- CONTRACTS BY CAPABILITIES (HORIZONTAL MODERNIZATION)
 - Network Modernization (NETMOD)
 - Voice Modernization 1.0/2.0 (VMOD)

NEW CONTRACTS

- NETWORK INNOVATION CONCEPTS - SPRINT (VERTICAL MODERNIZATION):
 - Global SIPR Network (GSN) Modernization
 - Comprehensive Modernization
 - Network Hardware Buy

CONTRACT ALIGNMENT



Comprehensive Base Modernization Strategy

- New Operating Model
- Consolidated Product Lines
- Technology Innovation



GENM-O Leadership



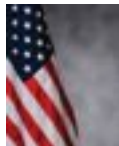
Product Manager (CSL)
Tom Dunaway



Deputy Product Manager
Toni Freeland

Program/Operations Management

Director
VACANT



Logistics Management

Team Lead
Tanya Johnson



EUROPE Project Office

Theater Director
Cary Ferguson



PACIFIC Project Office

Theater Director
Tim Green



SOUTHWEST ASIA Project Office

Theater Director
Scott Ervin



Acquisition Management

Team Lead
Mark Broughton



Technical Management

Team Lead (Acting)
Jean Anicet



Assistant Product Manager

MAJ Chris Biddie
Europe Project Office



Assistant Product Manager

MAJ Deems McKee
Pacific Project Office





GENM-O Mission & Vision



Mission

GENM-O is the Army's total lifecycle acquisition manager chartered with delivering modernized, classified and unclassified infrastructure, voice, video, data and command center capabilities that are scalable, accessible, flexible and defensible in alignment with the Army's Network Modernization Strategy and Army Unified Network Plan (AUNP) to both home station and deployed forces in the Africa Command (AFRICOM), Central Command (CENTCOM), European Command (EUCOM) and Indo-Pacific Command (INDOPACOM) areas of operation

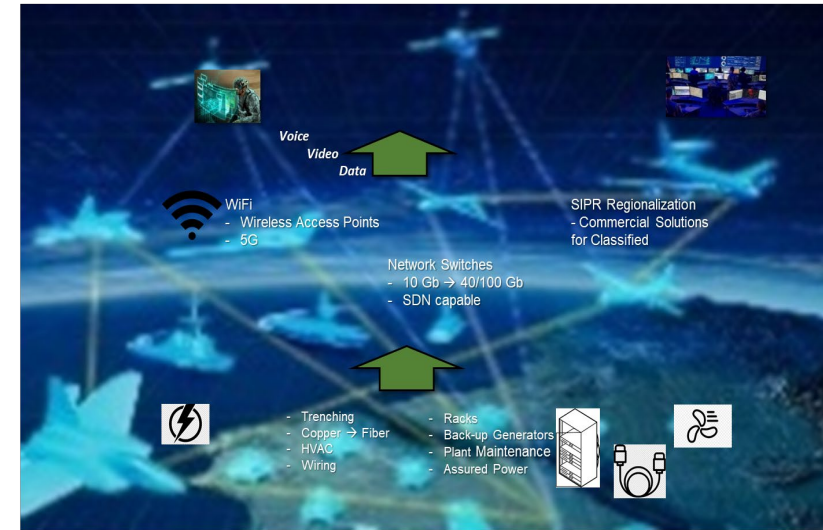
Vision

- Enable Unified Network Operations by 2028
- Leverage repeatable product baselines to become more agile and efficient in acquisition and project execution
- Manage stakeholder relations through frequent communication, transparency and credibility
- Deliver critical capabilities that meet customer needs within cost/schedule/performance parameters
- Build and develop the leaders and workforce of tomorrow



GENM-O Capabilities

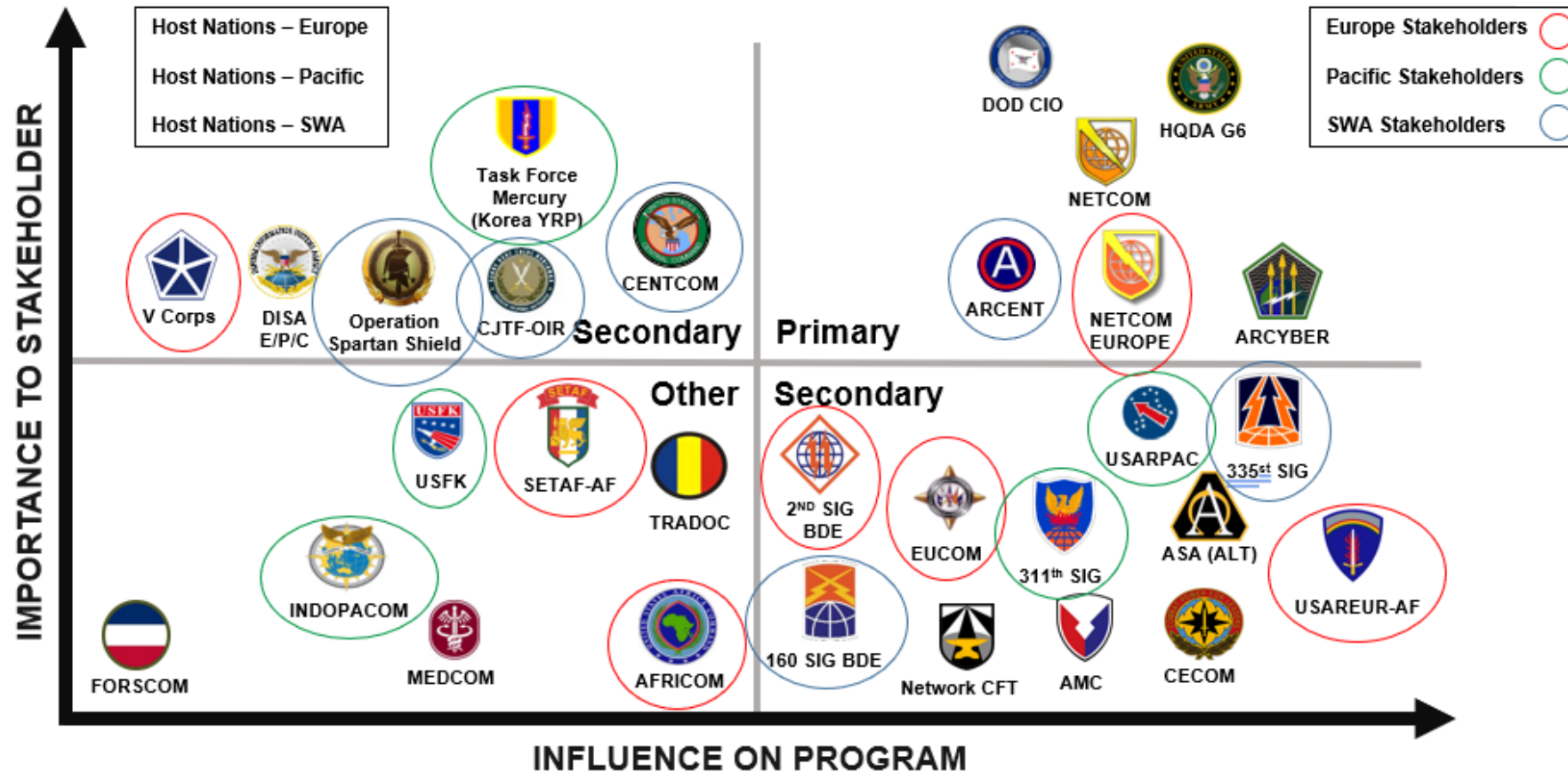
- **Network Infrastructure**
 - Inside Plant / Outside Plant
 - Wireless (WiFi; 5G; LiFi)
- **Network/Voice Modernization**
 - Communication backbone for Posts/Camps/Stations (ICAN)
 - Unclassified (NIPR) / Classified (SIPR)
 - Commercial Solutions for Classified (CSfC)
 - Software Defined Networking (SDN)
 - Voice Modernization
- **Strategic Command Centers**
 - C4 Infrastructure for Joint and Army Command Centers
- **Tech Control Facilities**
 - Conduit between Defense Information Systems Network (DISN), wide area network (WAN) and the Installation Campus Area Network (ICAN)



***Capabilities Enable** Secure & Unsecure voice/video/data, Integration of Command Operations Systems, C4ISR Infrastructure, ERPs, STE, MPE and other key warfighting functions



GENM-O Stakeholder Power Grid



Commitment to communicate...early and often

- Continual engagement with all Stakeholders (annual, semi-annual and quarterly)
- Monthly or weekly in-depth working groups, IPTs and status reviews



GENM-O Procurements



Description	Directorate	Contracting Office	Vehicle	Estimated RFP Release	Estimated Award	Estimated Contract Value	Small Business Set-Aside?
Europe (EUR) Network & Infrastructure Modernization Capability Set	Europe	ACC-RI	CHESS ITES 3S	4QFY22	2QFY23	\$247M	No
Pacific (PAC) Network & Infrastructure Modernization Capability Set	Pacific	GSA	Alliant 2	2QFY23	4QFY23	\$300M	No



GENM-O Contact Information



Name	Position	Email	Phone
Mr. Tom Dunaway	Product Manager	thomas.j.Dunaway.civ@army.mil	703-386-6249
Ms. Toni Freeland	Deputy Product Manager	antoinette.j.freeland.civ@army.mil	571-208-9172
Mr. Cary Ferguson	Europe Director	cary.v.ferguson.civ@army.mil	+49 172 760 1073
Mr. Tim Green	Pacific Director	timothy.w.green42.civ@army.mil	808-209-4922
Mr. Scott Ervin	Southwest Asia Director	scott.a.ervin2.civ@army.mil	+965-5519-8869 or 571-340-0665



Path Forward



**Award Flexible
Contracts**



**Commercial Solutions
for Classified**



Voice Modernization



Where Industry Can Help

- Define role of OEM, Prime Contractor and all Subs properly
- Understand how to operate in CONUS and OCONUS (often austere) locations
- Share your feedback on our RFI's to help improve our processes and the final solicitation
 - Make sure you understand what we are asking for
- Deliver reliable, sustainable and cost-effective capabilities to our Soldiers to win the next fight
- Provide accurate timeline assessments for RFPs

Feedback From Industry

- How can we leverage emerging technologies?
- How can we be more innovative?
- How can we optimize our current IT infrastructure?

Capabilities Needed

- Commercial Solutions for Classified (CSfC)
- Voice
- WiFi
- Software Defined Networking
- Zero Trust




Questions






The Army relies on PEO EIS

Connecting the Army.
Working for Soldiers.

 [Company/usarmypeoeis](https://www.linkedin.com/company/usarmypeoeis)

 [peo.eis](https://www.facebook.com/peo.eis)

 [@PEOEISPAOffice](https://twitter.com/PEOEISPAOffice)

 www.eis.army.mil

