Installation Information Infrastructure Modernization Program (I3MP)
Power Projection Enablers (P2E)

AFCEA BELVOIR INDUSTRY DAY
21 March 2019

Mr. Victor Hernandez, Product Manager I3MP
Lieutenant Colonel Howard Donaldson, Product Manager P2E

Distribution Statement A. UNCLASSIFIED//Approved for Public Release
Agenda

• IT Infrastructure Modernization Capabilities
• Global Presence
• PdMs P2E & I3MP Leadership
• Network Infrastructure Modernization Steps
• P2E Capabilities
• I3MP Project Offices
• Where We Need Your Assistance
IT Infrastructure Modernization Capabilities

MISSION: Enable the Warfighter through information technology, infrastructure modernization, and life cycle management of the Army’s Installation Campus Area (Voice, Video & Data) Networks, and strategic Command Centers across the Army.

Command Centers (CC)
Home Station Mission Command Center (HSMCC) suites provide Theater, Corps, and Division Headquarters with real-time audio-visual capabilities to execute combat and peace-time operations.

Strategic Command Centers (SCC) provide national-level command authorities and Combatant Commands (COCOMs) with the core C4I infrastructure for Joint, Coalition & Interagency capabilities.

Networks
Improves network reliability, accessibility, and security by replacing slower, outdated network routers and switches with newer, faster, and more capable equipment.

Time Division Multiplexing (TDM)/Circuits
Optimizes network circuits, removes antiquated telephone systems, and establishes conditions for Voice over Internet Protocol (VoIP) capabilities.

Infrastructure
Replaces outdated copper wire with high-capacity fiber that enables increased network capacity and reliability. Also includes improvements to power and environmental systems (e.g., HVAC).
Global Presence

I3MP funded 44 IT infrastructure modernization projects in FY18

- NORTHCOM: United States Northern Command
- SOUTHCOM: United States Southern Command
- AFRICOM: United States Africa Command
- CENTCOM: United States Central Command
- EUCOM: United States European Command
- PACOM: United States Pacific Command
- Germany Stuttgart/Wiesbaden
- Korea (Yongsan/Humphreys)
- Kuwait
- Ft. Belvoir
- Hawaii

PdM I3MP:
- NORTHCOM
- SOUTHCOM

PdM P2E:
- AFRICOM
- EUCOM
- CENTCOM
- PACOM

Signal Command Partners:
- 7th Signal Command
- 2nd Signal Brigade
- 335th Signal Command
- 311th Signal Command
PdM I3MP Leadership

Product Manager
Mr. Victor Hernandez

Deputy Product Manager
Mr. Tom Olson

Product Office Infrastructure
- Outside Plant
- Inside Plant
- Facilities

Product Office Networks
- Installation
- Campus Area Network - Design & Implementation
- High Capacity Routers & Switches

Product Office Time Division Multiplexing (TDM) / Circuits
- Decommission
- Legacy Voice Systems
- Global Transport Engineering Support

Product Office Command Centers
- Home-Station Mission Command Centers
- Strategic Command Centers
Network Infrastructure Modernization Steps

Army's Integrated Enterprise Network: Assured, Available, Reliable and Resilient

Command Centers
- Secure A/V Systems
- Integration of Command Operations Systems
- Secure Video Teleconference Systems
- C4ISR Infrastructure

Voice/TDM
- IP Voice End Devices
- Session Border Controller
- Integrated Access Device
- Decommission Legacy Voice Systems
- Circuit Optimization

SIPR/NIPR ICAN
- 10Gb Edge Access Switches
- 10Gb Area Core Switches
- 10Gb Area Distribution Switches
- Collection Routers
- Layer 2 Bridging Switches

Facilities/Inside Plant (ISP)
- Air Conditioning
- Humidity Control
- Uninterruptable Power
- Building Fiber Wiring
- Communication Shelters
- Generators

Outside Plant (OSP)
- Fiber
- Copper
- Maintenance Holes
- Hand Holes
- Duct
- Building Entrances
- Wireless Access Points
- Antennas

"As-Is" Capability Assessment

Anticipated Refresh Lifecycle
- 7-year lifecycle
- CONUS: 13 sites/year
- 7-year lifecycle
- CONUS: 13 sites/year
- 20-year lifecycle
- CONUS: 4-5 sites/year
- 20-year lifecycle
- CONUS: 4-5 sites/year
P2E Pacific Capabilities

Capabilities:
• Standardize installation campus area networks in the Pacific
• Voice, transport, core and distribution networks
• ISP-Active infrastructure supporting NIPRNet, SIPRNet,
• C4I interoperability between USAG-H and elements in Seoul
Capabilities:

• Engineer, furnish, install, secure, and test common, standardized, and interoperable operation center enabling: reach-back and forward support; tactical Mission Command; and Coalition/Joint operations

• ISP/OSP

• Strategic Command Centers

• Mobile TCFs

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<tr>
<td>541330</td>
<td>Al Asad Airbase Outside Plant / Inside Plant (OSP/ISP)</td>
<td>ACC-RI</td>
<td>FFP</td>
<td>Q3 2019</td>
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### P2E Europe Capabilities

**Capabilities:**

- Enable Europe a gateway to modernization and expansion, including but not limited to Telecommunication Room (TR) modernization, Inside Plant (ISP), Outside Plant (OSP), and NIPR/SIPR ICAN modernization

- Information Systems Network Installation Campus Area Network Design and Implementation (DISN ICAN-DI)

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<td>423430</td>
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Product Office Infrastructure

Capabilities:

- Increase network reliability
- Increase network bandwidth
- Provide reliable power and environment conditions for network equipment
- Combines and distributes circuits on Army installations

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<td>Technical Control Facility (TCF) Relocation &amp; Upgrade (Camp Roberts)</td>
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<td>FY20</td>
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<td>Q4 2019</td>
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Product Office Networks

**Capabilities:**

- Upgrade Core Routers to 10Gb/s
- Reduce data Entry/Exit points network, from 435 points in CONUS to less than 20 Globally
- Move to a Single Network
- Standardize Army Installation Networks
- Improve satisfying organization

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### Product Office TDM/Circuits

**Time Division Multiplexing (TDM) Decommissioning:**
Optimizes network circuits, removes antiquated telephone systems, and establishes conditions for Voice of Internet Protocol (VoIP) capabilities.

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<td>541330</td>
<td>Voice over Internet Protocol (VoIP) systems and decommissioning legacy Time Division Multiplexing (TDM) voice systems for multiple CONUS sites</td>
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Product Office Command Centers

Capabilities:
Home Station Mission Command Center (HSMCC) suites provide Theater, Corps, and Division Headquarters with real-time audio-visual capabilities to execute combat and peace-time operations.

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<td>Strategic Command Centers - SOUTHCOM</td>
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Where We Need Your Assistance

• How can we leverage emerging technologies?
• How can we optimize our current IT infrastructure?
• Deliver reliable, sustainable, and cost-effective capabilities to our Soldiers to win the next fight
  • “What got [us] here won’t get us [there]”
  • We owe it to them to deliver the best capability possible
• Early feedback on RFIs
• Are we giving you enough time for RFPs?
Questions?