



U.S.ARMY



PM Defense Communications and Army Transmission Systems (DCATS)

**AFCEA Belvoir Industry Days
21 March 2019**



PM DCATS Structure




PM DCATS



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Ms. Rhonda Seales	Mr. Robert Powell (A)



Wideband Enterprise Satellite Systems



Installation Information Infrastructure Modernization Program



Power Projection Enablers



Land Mobile Radio




Technology Application Office

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- Deputy PdM WESS
- Mr. Walton Brown
- Wideband
- Terminals
- CAISI/CSS VSAT
- Baseband

- Deputy PdM I3MP
- Mr. Tom Olson
- Command Centers
- Circuits
- Networks
- Infrastructure

- Deputy PdM P2E
- Mr. Hector Acosta
- PAC
- EUR
- SWA

- ACE
- EELMR
- PACJK LMR

- Deputy PL TAO
- Mr. William Weed (A)








Mission & Vision

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Mission: DCATS acquires, delivers and sustains strategic enterprise communications capabilities for the Army, DoD and the NCA to enable information dominance.

Vision: Be the recognized expert and trusted provider of national strategic communications transport infrastructure capabilities for the Army and the DoD Enterprise.

Wideband Enterprise Satellite Systems	Installation Information Infrastructure	Power Projection	Land Mobile Walkie-talkie	Technology Application Office
				
<p>Major Interest Items:</p> <ul style="list-style-type: none"> •CAISI/CSS VSAT •Phase III Transport Convergence •R&D: Digital IF, WGS Interference Cancellation, Path Diversity •WGS -10 Commissioning •Payload Control Single Integrator 	<p>Major Interest Items:</p> <ul style="list-style-type: none"> •Installation Campus Area Network (ICAN - JRSS, MPLS) •SIPR & VoIP Modernization •“Mobile” ICAN Infrastructure <ul style="list-style-type: none"> •Fiber ring in-a-box •Tech Control Facility (TCF) in-a-box •Software Defined Networks 	<p>Major Interest Items:</p> <ul style="list-style-type: none"> •Cost-Benefit Analysis for Land Mobile Radio (LMR) as-a-service •Computer-Aided Dispatch (CAD), E-911, and Early Mass Warning Notification (EMWN) •FirstNet 	<p>Major Interest Items:</p> <ul style="list-style-type: none"> •Protecting Army Intellectual Property •Convergence of highly classified networks •C4I for OGAs & Joint DoD Customers 	<p>Major Interest Items:</p> <ul style="list-style-type: none"> •Protecting Army Intellectual Property •Convergence of highly classified networks •C4I for OGAs & Joint DoD Customers



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Priorities



Today → deliver on time and on target to enable network readiness

- Pitch: Solid Requirements
 - Hit: Align Funding
 - Run: Execute Contracts
 - Performance Management
- Solid Execution

Acquisition Agility

Prepare for Tomorrow → “see ourselves”

- Resiliency
- One Network / Convergence
- Correct Alignment (Requirements Documents, Right Structure, Funding, and Architecture)

1. Total asset management visibility
2. Industry Innovation

People → right people, right place, right time

- Culture of Trust: Competent, Character, Commitment
- Accountability

Talent Management

Deliver on time and on target today. Plan for the future. Take Care of People.



Stakeholders

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Requirements

Resource

Dependencies

Customers



TRADOC



CASCOM



ARCYBER



HQDA G-4



HQDA G-8



USACE



CECOM



NETCOM



IMCOM



INDOPACOM



CENTCOM



CoCE



TCM
Networks
& Services



ASA(ALT)



CIO / G-6



AMC



ACC-RI



ACC-APG



ARCYBER



311th Signal
Command



ISAF

ISAF

DOD & Strategic Users

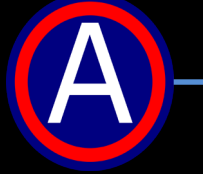
PM DCATS
Freedom Through Communications



NETCOM



EUCOM



ARCENT



POTUS



DoS



MDA



DISA



USN



USAF



DIA



USSTRATCOM



SMDC/ARSTRAT



SOCOM



7th Signal
Command



NORTHCOM



335th Signal
Command



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.



Time Division Multiplexing (TDM)/Circuits

Optimizes network circuits, removes antiquated telephone systems, and establishes conditions for Voice of Internet Protocol (VoIP) capabilities.



Networks

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



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).





Wideband Enterprise Satellite Systems



PdM WESS MISSION

Acquire, deliver, and sustain superior enterprise (strategic) and tactical military satellite communications and payload control capabilities for the US Army, DoD and the Joint Warfighting Community



**Satellite
Terminal
Systems**



**Baseband
Systems**



**Wideband
Control**



**Combat Service
Support
(SATCOM)**

PdM WESS VISION

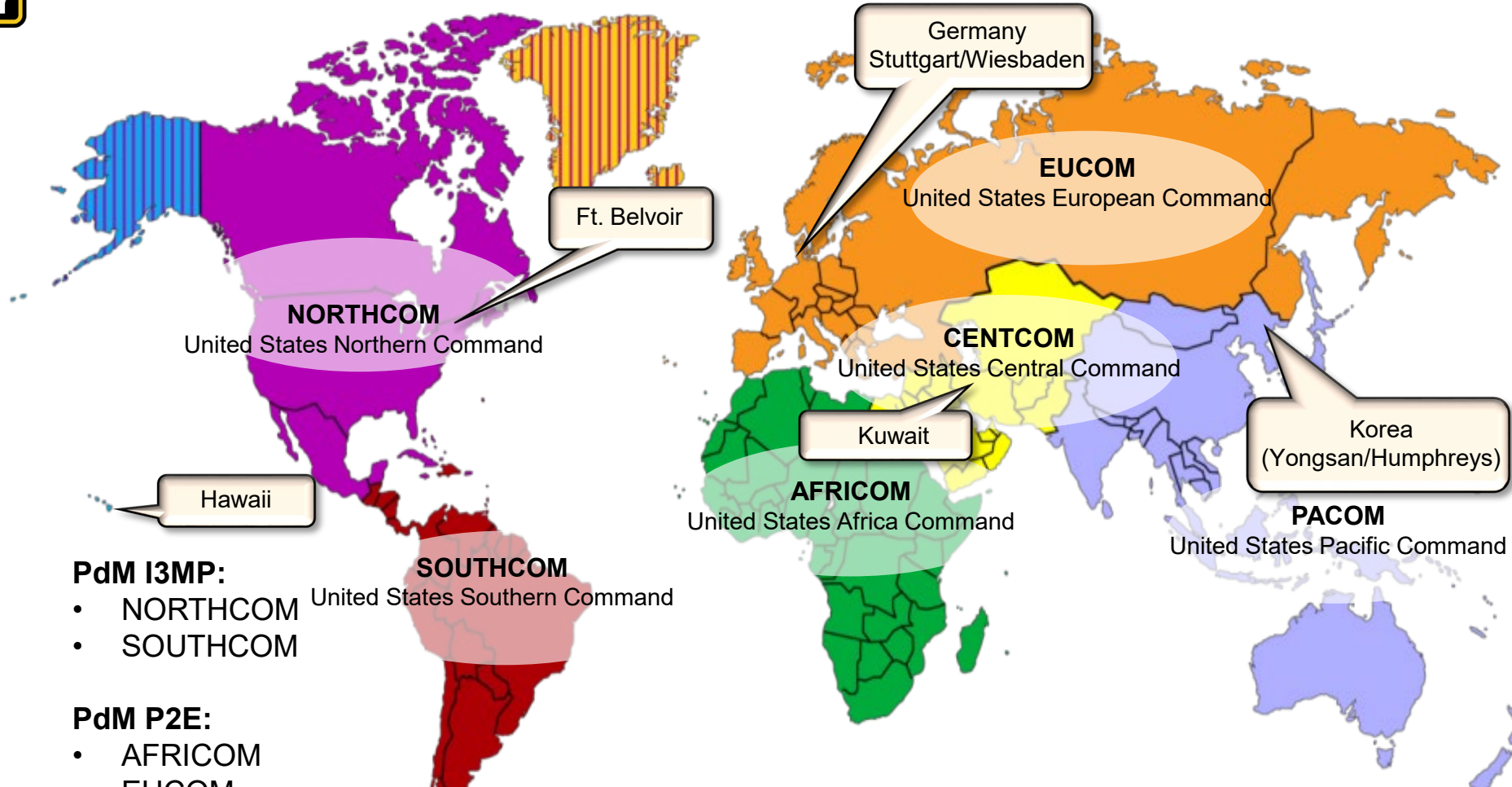
The Department of Defense choice for world class enterprise satellite communication systems that increase efficiency and enhance responsiveness to warfighter needs



Global Presence



13MP funded 44 IT infrastructure modernization projects in FY18



PdM I3MP:

- NORTHCOM
- SOUTHCOM

PdM P2E:

- AFRICOM
- EUROM
- CENTCOM
- PACOM

Signal Command Partners:

7 th Signal Command	2 nd Signal Brigade	335 th Signal Command	311 th Signal Command
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Land Mobile Radio Program



Program Description:

- Base Support Communications (BSC) funds Army-wide, non-tactical Garrison Land Mobile Radio (LMR) Systems and subscriber units. LMR Systems are commercial solutions that provide mobile and portable communication support for Garrison Public Safety, Force Protection, Homeland Security, and facilities maintenance operations. First Responders are the primary users of LMR to include installation Military Police, Fire Departments, and Emergency Medical personnel. LMR is not a program of record.
- LMR Systems support Soldier readiness by providing pre-deployment non-tactical logistical communications. LMR also provides support of non-combatant evacuation (NEO) orders OCONUS.
- LMR is a system of systems composed of various hardware and software components. Requirements at each post/camp/station are unique and vary based on geographic coverage area, terrain, number of end users, number of mutual aid partners, and dispatch concept of operations.

Capabilities:

- Land Mobile Radio (LMR) provides life saving communication capability for garrison first responder/public safety, base operations, and force protection
- Typical solutions include: system management terminals, Radio Frequency (RF) repeaters; dispatch consoles; voice logging recorders and playback stations, mutual aid interoperability gateways, antennas, towers, cables, and portable, mobile, and desktop subscriber units

Characteristics/System Improvements:

- Modernize the Army's LMR system in accordance with the National Telecommunications and Information Administration (NTIA) mandate and Host Nation frequency spectrum agreements.
- Provide Spectrum Efficiency: from Wideband 25 kHz to Narrowband 12.5 kHz
- Acquire systems that meet DoD, Army and LMR policies.
- Acquire systems that meet Association of Public-Safety Communications Officials (APCO) P25 Phase I standards

Special Features:

- Modernize Army CONUS Enterprise Systems (AC)
- Local/State/Federal Mutual Aid Interoperability
- Advanced Encryption Standard (AES) Encrypted Communications
- Priority queuing for Life & Safety communications
- Digital/Analog Communications
- Logging of Voice Communications
- High system availability due to redundant systems


High Interest Items:


- LMR as a Contracted Service (LMRACS)
- Computer Aided Dispatch (CAD)
- FirstNet Integration





The Army relies on **PEO EIS**

Connecting the Army. Working for Soldiers.

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