PM Networks and Infrastructure PMM170

Ken Beutel
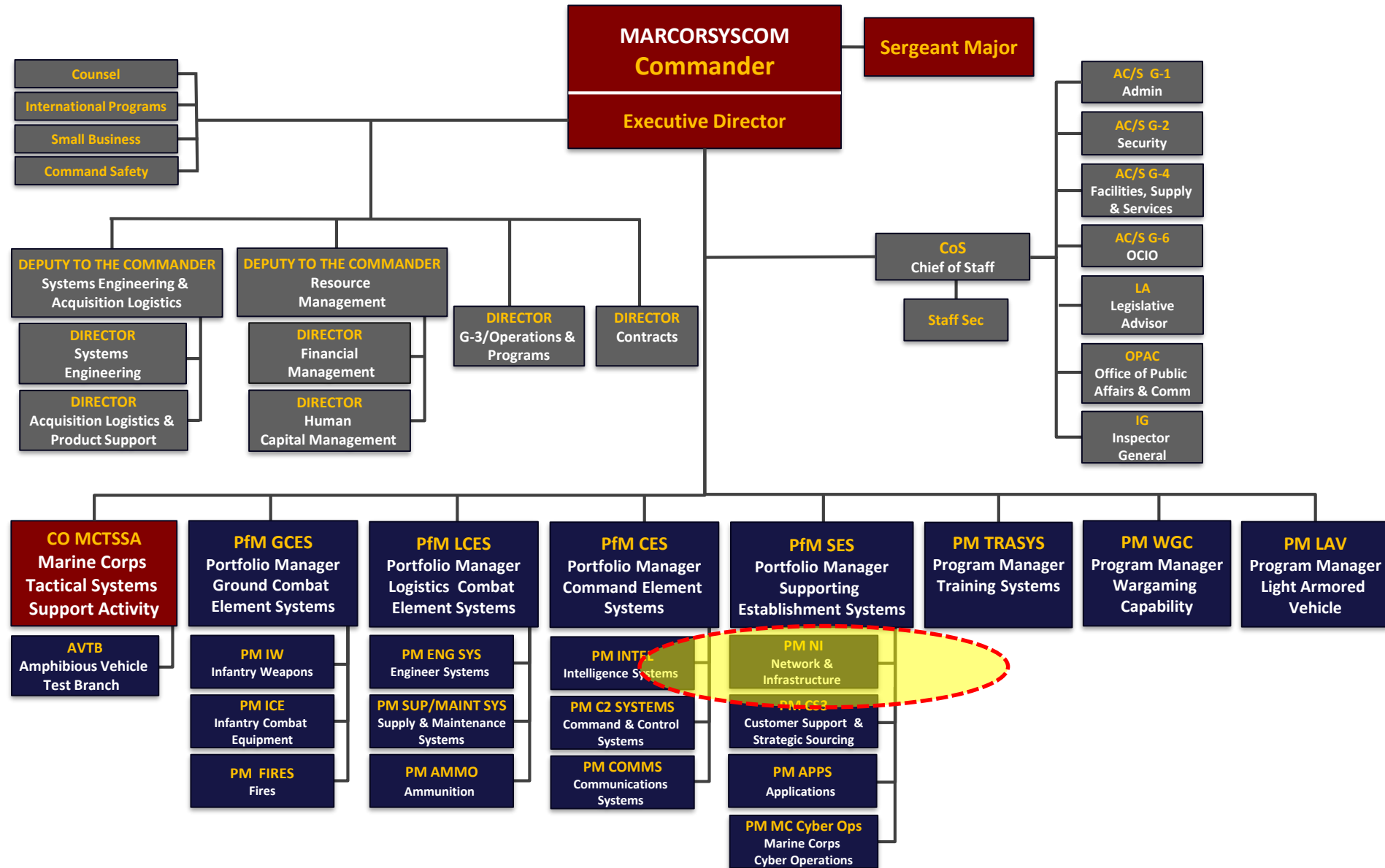
- PMM170 Position and Direction
- Key Initiatives
- Questions and Answers

MARCORSYSCOM
Commander
Executive Director

Sergeant Major

Counsel

International Programs

Small Business

Command Safety

AC/S G-1
Admin

AC/S G-2
Security

AC/S G-4
Facilities, Supply & Services

AC/S G-6
OCIO

CoS
Chief of Staff

Staff Sec

LA
Legislative Advisor

OPAC
Office of Public Affairs & Comm

IG
Inspector General

DEPUTY TO THE COMMANDER
Systems Engineering & Acquisition Logistics

DIRECTOR
Systems Engineering

DIRECTOR
Acquisition Logistics & Product Support

DEPUTY TO THE COMMANDER
Resource Management

DIRECTOR
Financial Management

DIRECTOR
Human Capital Management

DIRECTOR
G-3/Operations & Programs

DIRECTOR
Contracts

CO MCTSSA
Marine Corps Tactical Systems Support Activity

AVTB
Amphibious Vehicle Test Branch

PfM GCES
Portfolio Manager Ground Combat Element Systems

PM IW
Infantry Weapons

PM ICE
Infantry Combat Equipment

PM FIRES
Fires

PfM LCES
Portfolio Manager Logistics Combat Element Systems

PM ENG SYS
Engineer Systems

PM SUP/MAINT SYS
Supply & Maintenance Systems

PM AMMO
Ammunition

PfM CES
Portfolio Manager Command Element Systems

PM INTEL
Intelligence Systems

PM C2 SYSTEMS
Command & Control Systems

PM COMMS
Communications Systems

PfM SES
Portfolio Manager Supporting Establishment Systems

PM NI
Network & Infrastructure

PM CS3
Customer Support & Strategic Sourcing

PM APPS
Applications

PM MC Cyber Ops
Marine Corps Cyber Operations

PM TRASYS
Program Manager Training Systems

PM WGC
Program Manager Wargaming Capability

PM LAV
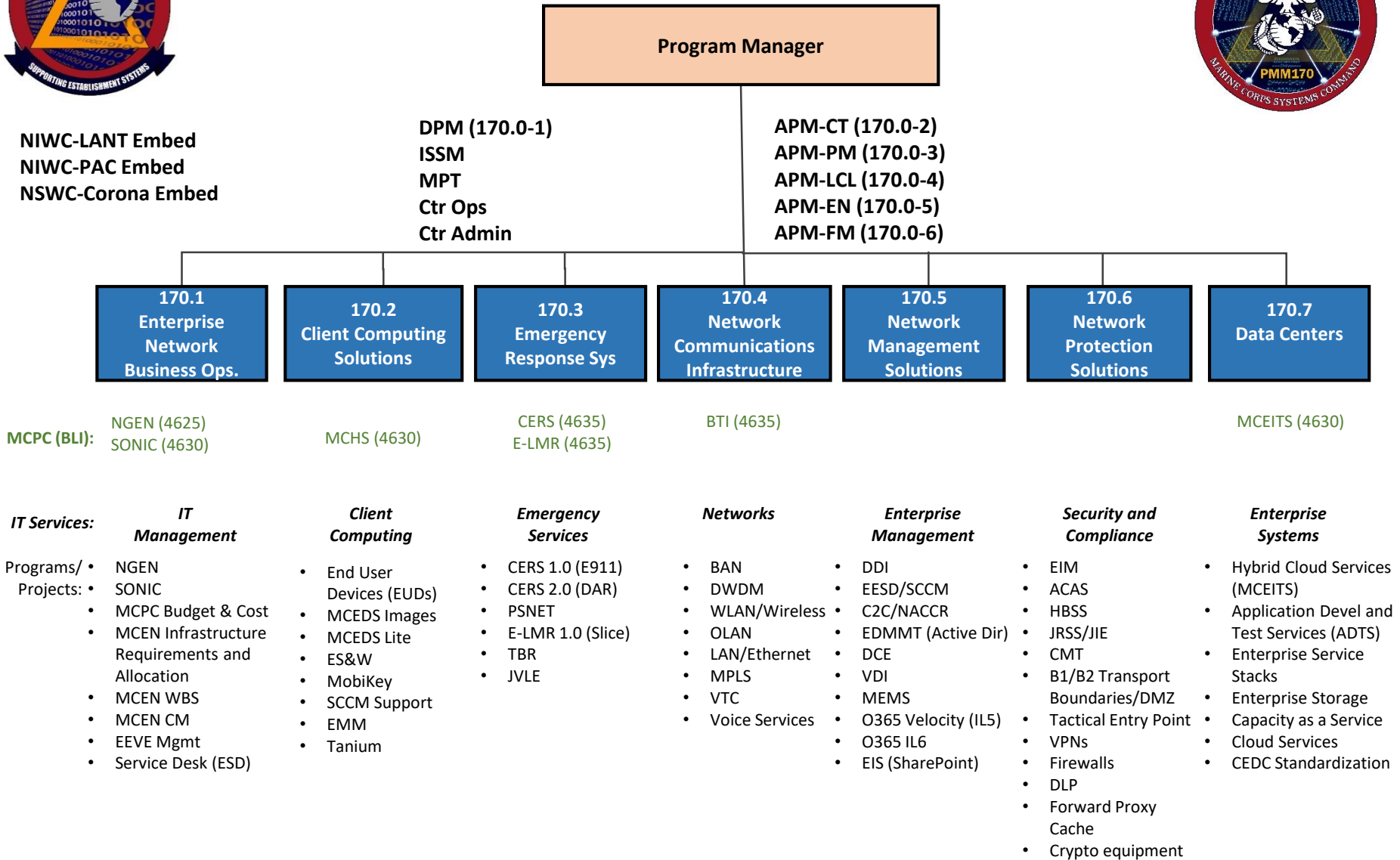Program Manager Light Armored Vehicle

- Centralized planning (PM Team)
  - PEO will retain major program oversight
  - Intent is to request PDA delegation for all ACAT IV and below
  - PM level will shape programs and projects
  - Common approach and cross-team integration supports Engineering Changes, Integrated Logistics, and Change Control

- Decentralized execution (team towers and IPTs)
  - PM provides execution authority to Product Managers (PdMs) & Team Leads (includes Risk, functional IPTs, solution development and market research)
  - PdM/Team Lead defines projects and allocate resources to project leads

PM Network and Infrastructure (PMM170)

Program Manager

NIWC-LANT Embed
NIWC-PAC Embed
NSWC-Corona Embed

DPM (170.0-1)
ISSM
MPT
Ctr Ops
Ctr Admin

APM-CT (170.0-2)
APM-PM (170.0-3)
APM-LCL (170.0-4)
APM-EN (170.0-5)
APM-FM (170.0-6)

170.1 Enterprise Network Business Ops.	170.2 Client Computing Solutions	170.3 Emergency Response Sys	170.4 Network Communications Infrastructure	170.5 Network Management Solutions	170.6 Network Protection Solutions	170.7 Data Centers

MCPC (BLI):

NGEN (4625)
SONIC (4630)

MCHS (4630)

CERS (4635)
E-LMR (4635)

BTI (4635)

MCEITS (4630)

IT Services:	IT Management	Client Computing	Emergency Services	Networks		Enterprise Management	Security and Compliance	Enterprise Systems
Programs/ Projects:	• NGEN • SONIC • MCPC Budget & Cost • MCEN Infrastructure Requirements and Allocation • MCEN WBS • MCEN CM • EEVE Mgmt • Service Desk (ESD)	• End User Devices (EUDs) • MCEDS Images • MCEDS Lite • ES&W • MobiKey • SCCM Support • EMM • Tanium	• CERS 1.0 (E911) • CERS 2.0 (DAR) • PSNET • E-LMR 1.0 (Slice) • TBR • JVLE	• BAN • DWDM • WLAN/Wireless • OLAN • LAN/Ethernet • MPLS • VTC • Voice Services	• DDI • EESD/SCCM • C2C/NACCR • EDMMT (Active Dir) • DCE • VDI • MEMS • O365 Velocity (IL5) • O365 IL6 • EIS (SharePoint)	• EIM • ACAS • HBSS • JRSS/JIE • CMT • B1/B2 Transport Boundaries/DMZ • Tactical Entry Point • VPNs • Firewalls • DLP • Forward Proxy Cache • Crypto equipment	• Hybrid Cloud Services (MCEITS) • Application Devel and Test Services (ADTS) • Enterprise Service Stacks • Enterprise Storage • Capacity as a Service • Cloud Services • CEDC Standardization

Mission Statement: Provide networks and infrastructure equipment to our Corps

Mission Statement (full):

- The Program Office for Network & Infrastructure (N&I) provides and sustains secure, reliable, and effective technologies and services enabling users to access the voice, data and information services required to successfully perform the Marine Corps mission.

Vision Statement (alignment with the USMC objective network strategy):

- Transform both the technology and methods of acquisition delivery in order to modernize Marine Corps network and infrastructure solutions at the point of need.

- **Network Modernization:** Develop and acquire modern and comprehensive IT solutions to sustain the current and plan for the future needs of the Warfighter.

- **Timely Delivery:** Leverage Marine Corps and industry project management and acquisition best practices to have IT solutions in place when they are needed.

- **Technical Debt Reduction:** Continue to specify the need and advocate for sufficient funding to eliminate current or imminent gaps in existing solutions.

- **IT as a Service (ITaaS):** Provide lifecycle management for the development, implementation, sustainment, and modernization of IT capabilities using service delivery best practices. (Fix the picture – Change "IT Service Management")

N+I Roadmap
VISION: Transform both the technology and methods of acquisition delivery in order to modernize Marine Corps network and infrastructure solutions at the point of need

Goals	Intent	Lines of Effort	Objectives
PREPARE FOR THE FUTURE	Investigate and prove out the technology solutions for 3-5 years ahead	**De-specialize** Devices and Solutions — Replace purpose-specific devices and resident software with software-driven devices and SaaS to permit flexible deployment, scaling and reuse. **Integrate** Interoperable Solution Components — Field proven (tested and accredited) solution components that can be used across all systems and solutions. **Defend** the Surfaces — Facilitate fully-automated security, with the tools for network security managers to monitor and adjust as needed	N&I infrastructure components meet MCIEE's technical requirements of 2024-2026
KEEP UP WITH INDUSTRY	Incrementally update the as-is solutions to maintain pace with industry mainstream products	**Investigate** industry directions — Maintain awareness of industry product development roadmaps. **Test** solutions for MCEN conformity — Test solutions in a MCEN-like environment and obtain type accreditations. **Publish** solution patterns — Publish and enforce standardize solution components	USMC IT assets remain useful, replaceable and interoperable to permit Marines to accomplish their jobs
IMPROVE DELIVERY	Leverage Marine Corps and industry best practices to deliver IT solutions in a timely manner	**Communicate** Value — Define *products and services*, provide them via a catalog, and meet delivery agreements. **Control** the delivery pipeline — Define process performance, track metrics, and optimize delivery. **Exploit** uncertainty by achieving the ability to pivot or accelerate — Cultivate mindset of flexible, outcome-maximizing delivery and resource allocation	USMC program managers and system owners can draw on proven solutions at the time that they are needed
REDUCE TECHNICAL DEBT	Update current assets to minimally acceptable current standards	**Complete** fielding current solutions — Procure and field solutions that were not completely delivered per unit needs. **Replace** out-of-support assets — Establish and maintain inventory of assets and support status; procure replacement items in time to put in service when needed. **Optimize sus**tainment costs — Identify opportunities	Existing network meets compliance standards and achieves at least acceptable performance by 2022

UNIFIED – DATA DRIVEN – CLOUD ENABLED – SERVICES BASED

1. Pre-Phase A activities for Hybrid Cloud Services
2. Standard configurations to define network management and nodal modernization (replace legacy MEMS, SONIC VDI and SIEM)
3. Improved Win10 images, EUD refresh and life-extension efforts
4. Unclassified mobility solution
5. Modernize edge access (wired, fiber, wireless)
6. Technical debt buy down
7. Visibility, integrated management and access enforcement to the edge (Comply to Connect)
8. Tactical integration with garrison MCEN-N/S
9. Enterprise Content Management in the Hybrid cloud (SharePoint migration)