PORTFOLIO MANAGER
Combat Element Systems

Organization Chart

Deeper Dive Into PfM CES Systems

PfM CES

PM IS Intelligence Systems

EWS
- CAP
- CESAS II
- CVRJ (V)2
- MFEW
- *MEG FoS (F)*
- Modi II
- *SSF (F)*
- VSI

T/HUMINT
- CIHEP FY14/15
- *CIHEP Next Gen (F)*
- *GBOSS Next Gen (F)*
- MSIDS
- *MSIDS Next Gen (F)*
- MSWS
- TRSS V6.1
- TSCM

IdOps
- EFEC
- *FDS-MC (F)*
- IDS-MC
- IDS-MC Inc 2

DCGS-MC
- *All Source (F)*
- IAS FoS FY16-21
- GEOINT
- TEG RWS
  - TPC FoS
  - VIP-MC
- *SIGINT (F)*

SIGINT
- IBR
- *SIGMAN (F)*
- TCAC 4.6/4.7
- TPCS MPC Refresh
- TSCS
- SCI-COMMS
  - HBSI-PT
  - SCIK

PM C2S Command and Control Systems

TSA&S
- CHE *(E)*
- JTCW
- GCCS-TCO S/W
- TSOA
- MCH S/W
- CDN S/W
- MARCIMS S/W

IRC
- DMS
- CCS (Legacy)
- MISO FABS
- PAS (Legacy)

EMC2
- NOTM-A
- NOTM GCV
- NOTM-UTV/ULTV
- Island Marauder Technology Demo *(E)*

TH&I
- CDN H/W
- CDN-SFF
- GCCS-TCO H/W
- JBC-P FoS
- MARCIMS H/W
- MCH H/W
- WID MATT
- OCP

PM CS Communications Systems

EXCOMM
- COMSEC
- SPEED/NPM
- PNT
  - *MARNAV*
  - *MGUE Inc. 2 (F)*
  - *DAGR*

SATCOM
- GBS
- MCWS FoS
  - MCWS-X
  - MCWS (L/H)
- SMART-T
- VSAT FoS (L/M/S)
- VSAT-E
- *SCAR (F)*
- *MSAT (F)*

GR
- HFR
- HFR II
- IISR
- MBR
- MBR II
- MCR FoS
  - MCHH
  - MCMP
- *Link-16 HH/HALO (E)*
- SCC
- THHR
- THHR (V) 3
- THHR-SVA
- *Waveforms (E)*

THC2
- AN/TRC-170A
- AN/MRC-142B
- AN/MRC-142D
- EAGL
- LRS
- NGT
- TEAMS (I/II)
- WPPL-T

PM WGC Wargaming Capability

Marine Corps Wargaming & Analysis Center

S&T Science & Technology
- AMWS (IS)
- Ares Biometrics Device (IS)
- Beyond Line Of Sight Communications (CS & IS)
- CRIT (IS)
- Data in Transit Algorithms (C2S)
- EAITE FNC (C2S)
- ENDOR FNC (IS)
- EW Micro Preprocessor (IS)
- Forensic Case File Analysis Tool (IS)
- GBOSS Object Recognition Integration Initiative w/ONR (IS)
- Information Assurance Multilevel Security (C2S)
- LPI/LPD (CS, C2S, and IS)
- Proventia INP (C2S)
- Small Unit Terrestrial Sensor Kit (IS)
- UES TFT (IS & C2S)
- VSI

Last Reviewed: Apr 2022 (E) indicates effort (not a program); (F) indicates future program

PM Intelligence Systems

Mission: Equip and Sustain our Marine Forces with timely, capable, and cost effective intelligence capabilities for current and future expeditionary and crisis-response operations.

DCGS-MC
Distributed Common Ground / Surface System – Marine Corps

DCGS-MC
All Source

DCGS-MC SIGINT
(TCAC)

DCGS-MC
GEOINT

IdOps
Identity Operations

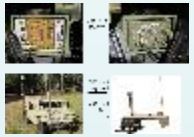
IDS-MC Inc 2

FDS - MC

EWS
Electronic Warfare Systems

MFEW

CREW
CVRJ (V)2



CESAS II Inc I

Lunar Locust

CESAS II
Inc II

MEGFoS
MTA

IBR

T/HUMINT
Terrestrial / Human Intelligence

Terrestrial Collections

TRSS V6.1

MSIDS Tech Refresh

TSCM

GBOSS

SIGINT
Signals Intelligence

TSCS

SCIK

HBSI-PT

SCI-COMMS FoS

CIHEP FY14/15
Tech Refresh

TCAC
SIGMAN

TPCS MPC
Refresh

PM IS PMO Overview

5 Teams pressing forward:

- 160.1 Electronic Warfare Systems (EWS)
- 160.2 Distributed Common Ground/Surface System-Marine Corps (DCGS-MC)
- 160.3 Terrestrial and Human Intelligence (T/HUMINT)
- 160.4 Signal Intelligence (SIGINT)
- 160.5 Identity Operations (IdOPS)

FY22 Focus Areas:

- Field new capabilities in support of Force Design
- DCGS-MC (CIW, CGW, CIS, AATS)
- EWS (MEGFoS MTA, Lunar Locust, CESAS II Inc II, MFEW)
- SIGINT (TSCS Receivers, IBR ENTR V4, TCAC, SCI Comms)
- IDOPS (IDS-MC)
- Reduce Size, Weight and Power (SWaP)
- Common Hosting Environment
- Integrate AI/ML (Digital Integration, Computer Vision, Automation)
- Naval Integration

- **Challenges:**
  - Upgrading Ground/Maritime Sensors
  - Data Science/Architecture/Strategy
  - S&T Transition

EWS
MFEW

DCGS-MC
All Source

SIGINT
IBR

T/HUMINT
GBOSS

IDS-MC
IDS-MC Inc 2

Areas Where Industry Can Help

- Field new capabilities in support of Force Design
- DCGS-MC (CIW, CGW, CIS, AATS)
- EWS (MEGFoS MTA, Lunar Locust, CESAS II Inc II, MFEW)
- SIGINT (TSCS Receivers, IBR ENTR V4, TCAC, SCI Comms Light Fidelity (LIFI)
- Reduce Size, Weight and Power (SWaP)

PM Intelligence Systems Opportunities

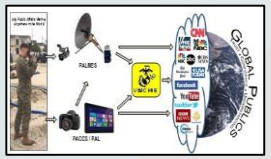
Title	Planned RFP
None (procurements planned FY22/FY23 timeframe are either leveraging contracts through the warfighting labs or are sole-source based upon the technology)	

Mission: Provide and sustain Command and Control capabilities to the MAGTF

IRC
Information Related Capabilities

DMS - TIPS

DMS VIAS



DMS - PALMES

MISO

TH&I
Tactical Hardware & Infrastructure

JBC-P FoS

MCH

CDN DDS-M

GCCS-TCS

MARCIMS

EMC2
Extensible MAGTF Command & Control

NOTM GCV

NOTM-A Inc1

NOTM-A Inc2

TSA&S
Tactical Software Applications & Services

TSOA

JTCW-C2PC

PM C2S PMO Overview

4 Teams pressing forward:

- 161.1 Tactical Software, Applications, & Services (TSA&S)
- 161.3 Extensible MAGTF Command and Control (EMC2)
- 161.4 Information Related Capabilities (IRC)
- 161.5 Tactical Hardware & Infrastructure (TH&I)

FY23 Focus Areas:

- Continuous integration / continuous delivery / development of software
- Investigating data and software management in a cloud environment
- Implementing a federated capability
- Emphasis on tactical networking solutions that provide the appropriate Size, Weight, and Power (SWaP)
- Identify common handheld requirements and converge when possible
- Networking-On-The-Move (NOTM) Ground Combat Vehicles fielding
- Integration of NOTM onto the Ultra-Light Tactical Vehicle
- Integration of NOTM onto Navy amphibious ships
- Technology refresh and hardware modernization
- Wireless capabilities for End User Devices across classification levels

Challenges:

- Configuration management in a more rapid manner
- Maintaining the existing capabilities in the fleet
- Executing a parallel development effort for the future implementation

JTCW-C2PC

CDN

NOTM-A Inc1

NOTM-A Inc2

MCH

NOTM GCV

DMS - VIAS

DMS - PALMES

GCCS

MISO

TSOA

MARCIMS

Areas Where Industry Can Help

- A standard C4ISR/Electronic Warfare Modular Open Suite of Standards (CMOSS) solution for:
  - Tactical Imagery Production System Next Generation (TIPS NG)
  - Networking-on-the-Move Ground Combat Vehicle (NOTM GCV): Utility Light Tactical Vehicle (ULTV) / Amphibious Combat Vehicle (ACV) / Armored Reconnaissance Vehicle (ARV)
  - Combat Date Network (CDN)
- Secure Wireless solutions
  - Light Fidelity (LIFI)
  - Cellular (5G)
  - On-the-Move and At-the-Halt

PM C2S Opportunities

Title	Planned RFP
TIPS NG Development	FY-23

PM Communications Systems

Mission: Deliver to our Marines modern, operationally suitable and sustainable tactical communication systems; and enhance MAGTF long-range air surveillance capability.

GR
Ground Radios

MBR II

HFR II

MCR FoS

LINK 16 HH

THHR

THHR (V) 3

THHR-SVA

MBR

EXCOMM
Expeditionary Communications

IISR

DAGR

MARNAV

SPEED/NPM

COMSEC

THC2
Terrestrial High-Capacity Communications

AN/TRC-170

WPPL-T

AN/MRC-142D

LRS
Line-of-Sight Radio System

EAGL
Expeditionary Advanced Ground Link

NGT
Next Generation Troposcatter

SATCOM
Satellite Communications

TEAMS

GBS

TSR-11

PRS-11

SMART-T

TEAMS II
Tactical Elevated Mast System II

WSATCOM

VSAT-S

VSAT-M

VSAT-L

VSAT-E

PM CS PMO Overview

4 Teams pressing forward

- 162.1 Expeditionary Communications (EXCOMM)
- 162.2 Ground Radios (GR)
- 162.3 Satellite Communications (SATCOM)
- 162.4 Terrestrial High-Capacity Communications (THC2)

FY22/FY23 Focus Areas:

- Cryptographic Modernization
- Positioning Navigation Timing (PNT) Modernization
- Tactical Communications Modernization (TCM)
- Waveform Management
- Satellite Communication Modernization
- Terrestrial High-Capacity Communications Modernization
- Free Space Optics/Expeditionary Advanced Ground Link

Challenges:

- Addressing Near Peer Threats, Expeditionary Advanced Base Operations, Littoral Operations in a Contested Environment
- Integrating Waveforms into Proprietary Hardware
- COVID related supplier delays
- Cybersecurity posture

Tactical Communications Modernization

Line-of-Sight Radio System (LRS)

Expeditionary Advanced Ground Link (EAGL)

Mounted Assured Resilient Navigation (MARNAV)

Areas Where Industry Can Help

- Modular and Scalable communication system designs
- Systems that are capable of incremental upgrades at the component level from across industry
- Systems that enable pushing maintenance capabilities to the forward edge
- Low Probability of Intercept (LPI) / Low Probability of Detection (LPD) / Anti-Jam (AJ) communications
- Naval interoperability
  - Systems compatible with future naval systems
  - Systems that can be operated from amphibious ships
- CMOSS/MOSA form factors for manpack radio solutions.

PM Communications Systems Opportunities

Title	Planned RFP
Marine Corps Wideband Satellite Communications - Light & Heavy (MCWS-L/H)	**April 2022**
Potential LINK 16 RFI/RFP	**FY23**
MARNAV	**4QFY22**

PM WGC PMO Overview

1 Team pressing forward

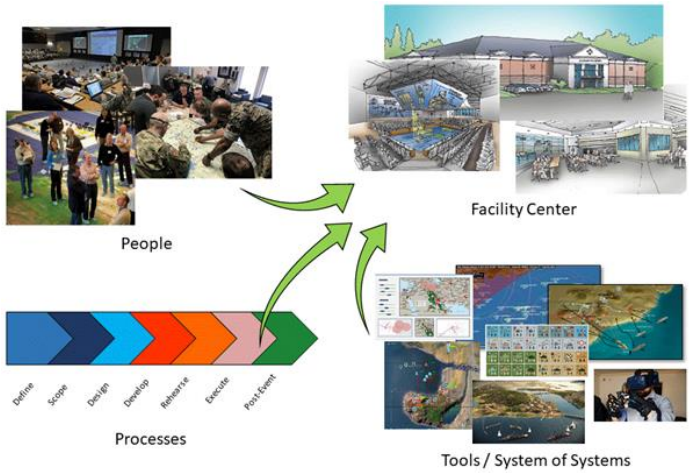
- 163.0 Wargaming Capability (WGC)

FY22 Focus Areas:

- Phase II – Integrated Prototype Development and Demonstration
- Identification and integration of enterprise services
- Refine IT Infrastructure requirements supporting the installation of the wargaming materiel solution within the MCWAC Facility
- Refining Phase III – Baselining & Production/Deployment requirements

Challenges

- Affordability – Funding shortfalls (CR, Congressional Marks, Reclamas, CYD, UPL, Prioritization backing)
- Integration complexity of technology and classified data in all aspects of the Wargaming Process
- Identification of additional networks required for the facility from receiving organization
- Feasibility of full Modeling & Simulation-conceptual model requirements
- Identification and integration of enterprise services with facility and materiel solution
- Multiple classification layers requiring integration, access, and transfer (i.e. CDS)
- Data Governance determinations
- Management and execution of multiple space and system accreditation efforts while maintaining targeted IOC/FOC schedule
- Stakeholder engagement and out-year responsibilities (policy changes)



Areas Where Industry Can Help

- As the program continues development of an integrated prototype and coordinating the network design and infrastructure, the plan is to continue to evaluate emerging technologies to help address the crucial vision for the Marine Corps Wargaming Capability.
- Current areas of interest are:
  - Development of over 400+ conceptual models required for the full spectrum of wargames that cross multiple domains (land, air, sea, space, cyber):
  - TAA and BAA compliant Floor Display for an auditorium:
  - Processing and safeguarding classified data and simulations across multiple networks within a wargame: and
  - Approved cloud services over classified networks.
- The program is also interested to hear about any private equity into similar capabilities used commercially or with other DoD agencies.
- Industry can contact the program at MCSC_PM_WGC@usmc.mil or look for periodic advertisements on SAM.gov .

PM Wargaming Capability Opportunities

Title	Planned RFP
None	

QUESTIONS?

Contact : MCSC_PfMCES@USMC.MIL

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