



MARINE CORPS SYSTEMS COMMAND

Equipping our MARINES



PfM CES APBI

Col Robert Bailey



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PfM Introduction



PfM CES Mission: Provide and Sustain Command & Control, Communications and Intelligence Capabilities to the MAGTF.

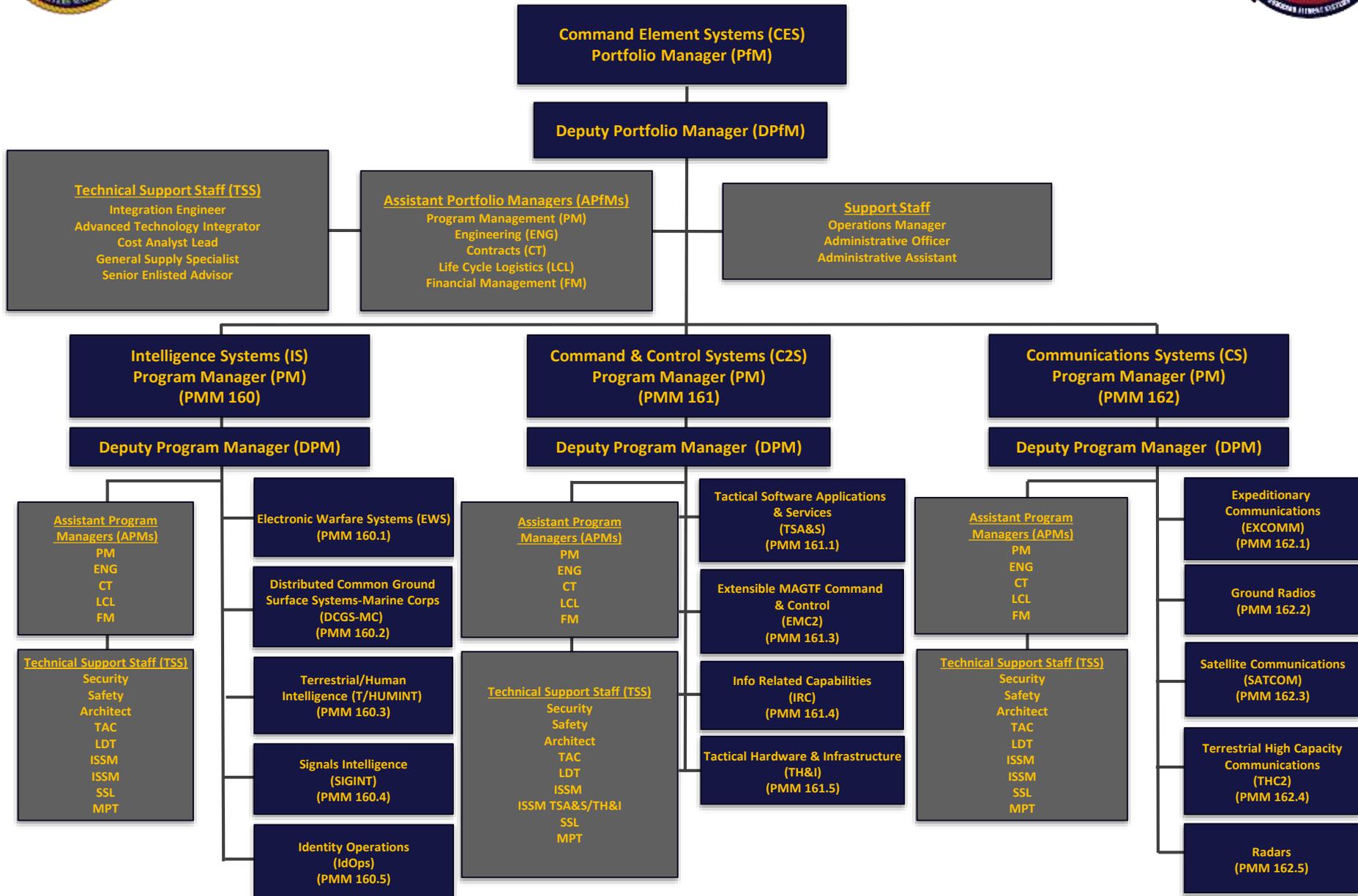


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Organizational Structure





Command Element Systems Portfolio

Mission: Provide and Sustain Command & Control, Communications, and Intelligence Capabilities to the MAGTF



Intelligence Systems

- Electronic Warfare Systems
- Distributed Common Ground / Surface System – Marine Corps
- Terrestrial and Human Intelligence
- Signals Intelligence
- Identity Operations



Command and Control Systems

- Tactical Software, Applications, & Services
- Extensible MAGTF Command & Control
- Information Related Capabilities
- Tactical Hardware & Infrastructure



Communications Systems

- Expeditionary Communications
- Ground Radios
- Satellite Communications
- Terrestrial High Capacity Communications
- Radar Systems





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PM IS PMO Overview



5 Teams pressing forward

- 160.1 Electronic Warfare Systems
- 160.2 Distributed Common Ground/Surface System-Marine Corps
- 160.3 Terrestrial and Human Intelligence
- 160.4 Signal Intelligence
- 160.5 Identity Operations

Focus Areas:

- Deploy AATS
- Field DCGS GEOINT/CIS
- Test CESAS II Inc 2 (Backpack)
- Fielding TSCS Receivers, ENTR V4
- Develop MFEW/MEGFoS, SSF, SIGMAN, develop and field IDS/FDS-MC
- Naval and E-Hub Data Integration
- Common Hosting Environment
- SCI Comms/JWICS Assessment
- Challenges
 - COVID-19 Schedule Impacts (fielding delays, procurement and travel)
 - Data Science/Architecture/Strategy



EWS
MFEW



DCGS-MC
All Source



SIGINT
IBR



T/HUMINT
GBOSS



IDS-MC
IDS-MC Inc 2



DCGS-MC RFIs

- ▶ Integration of AI/ML capability into DCGS-MC baselines
- ▶ Cloud migration and integration
- ▶ Common Data Link Antenna Refresh
- ▶ Maven/Minotaur Integration within DCGS-MC baselines ISO FMV PED
- ▶ Fielding of modernized server/workstation for (FY21)



T/HUMINT RFIs

- ▶ Mobile All-Domain Observation & Sensing System (MA-DOSS) – FY20
- ▶ Tactical Comms: Ground Recon Comms Suite (GRCS) – FY21
- ▶ USMC Multi-Domain Sensing Capabilities – FY21



EWS RFI

- ▶ CESAS II Production (Team Portable) FY20



SIGINT RFI

- ▶ TCAC Cross Domain Solution Tech Refresh FY20



PM opportunities for industry next 6-18 months

Title	Planned RFP
<p>Lead System Integrator's for PM IS are:</p>	
<ul style="list-style-type: none"> ▶ Naval Information Warfare Center – Atlantic (NIWC-A) 	
<ul style="list-style-type: none"> ▶ C4ISR Sustainment, FSR, Training, Supply Chain Management 	Dec 20
<ul style="list-style-type: none"> ▶ TCAC Engineering Services 	Oct 20
<ul style="list-style-type: none"> ▶ SIGMAN, CRIT Engineering 	Oct 20
<ul style="list-style-type: none"> ▶ SCI Comms Engineering 	Nov 20
<ul style="list-style-type: none"> ▶ Naval Surface Warfare Center – Crane (NSWC Crane) 	
<p>Marine Corps System Command</p>	
<ul style="list-style-type: none"> ▶ CIHEP CSfC SATCOM solution 	FY22
<ul style="list-style-type: none"> ▶ CIHEP Handheld mobile multifunction device 	FY22
<ul style="list-style-type: none"> ▶ Common Data Link Antenna Refresh 	FY21



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PM IS Budget



PB-21

\$ (M)	FY19	FY20	FY21
	\$267	\$237	\$301

Appropriation Breakout

\$ (M)	FY19	FY20	FY21
RDT&E	\$52	\$64	\$60
PMC	\$87	\$88	\$103
PANMC	\$0	\$0	\$0
OMMC	\$128	\$85	\$138



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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)

FY21 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
- Implementation of NOTM Airborne systems into MV-22 aircraft
- Integration of NOTM onto Navy amphibious ships
- Technology refresh and hardware modernization
- Mobile devices with higher classification capability

Challenges

- Configuration management in a more rapid manner
- Maintaining the existing capabilities in the fleet
- Executing a parallel development effort for the future implementation
- COVID-19 restrictions



JTCW-C2PC



CDN DDS-M



NOTM-A Inc1



NOTM-A Inc2



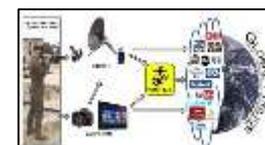
MCH



NOTM GCV



CCS FoS



PAS



TCO-GCCS



MISO



TSOA



MARCIMS



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PM C2S Focus of Efforts



- ▶ **Software development and delivery in a cloud environment**
- ▶ **Continue realignment of software and hardware programs to ensure alignment to Force modernization efforts**
- ▶ **Support the HQMC DC I Network Modernization Plan**



PM opportunities for industry next 6-18 months

Title	Planned RFP
▶ Wired in the Defense	1QFY21
▶ Software Maintenance Support and Software Technical and Development Support Contract	2QFY21
▶ Low profile SATCOM antenna for NOTM	TBD – FY22-24
▶ Artificial Intelligence/Software defined networking at the tactical edge	TBD – FY22-24
▶ Software defined modem for NOTM	TBD – FY22-24
▶ Emerging camera, video, and networking equipment	TBD – FY21(RFI)



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PM C2S Budget



Exhibits Schedule					Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity/Total Cost (Each)/(\$M)					
P-40A	Communication and Electrical	P-5A			- / 35.747	- / 7.963	- / 10.443	- / 6.412	- / -	- / 6.412
P-40A	Command Post Systems	P-5A			- / 347.856	- / 117.281	- / 80.897	- / 33.713	- / -	- / 33.713
P-40A	Comm Switching & Control Systems	P-5A			- / 33.684	- / 30.851	- / 22.531	- / 39.344	- / -	- / 39.344
P-40	Total Gross/Weapons System Cost				- / 417.287	- / 156.095	- / 113.871	- / 79.469	- / 0.000	- / 79.469

*Title represents a combination of PM C2S programs within BLI 4620, BLI 4631, and BLI 4634

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding. Funding amounts is only for PMC2S programs and not the total of the BLI/P-40a.

Exhibits Schedule					Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity/Total Cost (Each)/(\$M)					
R2A	Exp Indirect Fire Gen Supt Wpn Sys	R3, R4, R4A			- / 301.476	- / 21.603	- / 28.083	- / 20.502	- / -	- / 20.502
R2A	Marine Corps Tactical Radio Systems	R3, R4, R4A			- / 32.169	- / 7.564	- / 5.333	- / 4.244	- / -	- / 4.244
R2A	Comms Switching and Control Sys	R3, R4, R4A			- / 46.562	- / 1.569	- / 1.778	- / 4.749	- / -	- / 4.749
R2A	Information Related Capabilities	R3, R4, R4A			- / -	- / 4.030	- / 4.791	- / 1.156	- / -	- / 1.156
R2	Project Total				- / 380.207	- / 34.766	- / 39.985	- / 30.651	- / 0.000	- / 30.651

*Title represents a combination of PM C2S programs within Projects, 2270, 2275, 2276, and 3772

Note: Totals in this Exhibit R2A set may not be exact or sum exactly due to rounding. Funding amounts is only for PM C2S programs and not the total of the Project/R2A.

Total (FY19-21):

\$ (M)	FY19	FY20	FY21
	\$284.390	\$257.969	\$202.488

Appropriation Breakout

\$ (M)	FY19	FY20	FY21
RDT&E	\$34.766	\$39.985	\$30.651
PMC	\$156.095	\$113.871	\$79.469
PANMC	\$0.000	\$0.000	\$0.000
OMMC	\$93.529	\$104.113	\$92.368

Based on PB-21 controls



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PM CS PMO Overview



4 Teams:

- 162.1 Expeditionary Communications
- 162.2 Ground Radios
- 162.3 Satellite Communications
- 162.4 Terrestrial High Capacity Communications

FY21 Focus Areas:

- Cryptographic Modernization
- Global Positioning System Modernization
- Tactical Communications Modernization (TCM)
- Waveform Modernization
- Satellite Communication Modernization
- Terrestrial High Capacity Communications Modernization

Challenges:

- Addressing Near Peer Threats, Expeditionary Advanced Base Operations, Littoral Operations in a Contested Environment
- Cost effective waveform modernization solutions
- COVID related supplier delays
- Cybersecurity posture



Tactical Communications Modernization

Line-of-Site Radio System (LRS)



Expeditionary Advanced Ground Link (EAGL)

MGUE





- ▶ **Military Global Positioning System (GPS) User Equipment MGUE Increment 1 - Vehicle Integration**
- ▶ **Ground Radios TCM Industry Day 1QFY21**
 - ▶ **Multi-Channel Handheld Test Systems, Waveforms and Sparing**
 - ▶ **Handheld (Ground) Link-16**
 - ▶ **Multi-Channel Manpack**
- ▶ **Marine Corps Wideband Satellite Communications (MCWS) Light & Heavy Test Systems**
- ▶ **Tactical Elevated Antenna Mast System (TEAMS) II Prototyping**
- ▶ **Expeditionary Advanced Ground Link (EAGL) Procurement**



Title	Planned RFP
▶ MGUE Increment 1 RFP, FRP	3QFY21, 3QFY22
▶ Multi-Channel Handheld RFP, FRP	1QFY21, 4QFY22
▶ Handheld (Ground) Link-16 Universal Statement of Need procurements	1QFY21->
▶ Multi-Channel Manpack RFP	1QFY23
▶ MCWS Light & Heavy RFP, FRP	2QFY21, 4QFY22
▶ EAGL RFP, FRP	1QFY21, 4QFY21



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PM CS JBook and Budget



Exhibits Schedule					Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Exhibit Type	Title*	Subexhibits	ID CD	MIDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	Radio Systems				- / 671.301	- / 231.619	- / 213.218	- / 343.250	- / -	- / 343.250
P-40	Total Gross/Weapon System Cost				- / 671.301	- / 231.619	- / 213.218	- / 343.250	- / 0.000	- / 343.250

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

Note: Totals in this Exhibit P-40 set may not be exact or sum exactly due to rounding.

*Delta between the Exhibit Schedule and the PM CS PMC funding profile is realized in the 4634 and 4650 BLIs.

\$ (M)	FY21	FY22	FY23
	381.980	564.749	605.557

Appropriation Breakout

\$ (M)	FY21	FY22	FY23
RDT&E	15.554	15.037	15.216
PMC	344.533	531.014	570.525
PANMC	0.000	0.000	0.000
OMMC	21.893	18.698	19.816

Based on PB-21 controls



QUESTIONS?

Submit your questions at
moderndaymarine.com/question

CONTACT US



Marine Corps Systems Command

MCSCPAO@usmc.mil
703.432.3958



MCSC Office of Small Business Programs

MCSCOSBP@usmc.mil
703.432.3946 & 703.432.3944

