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OPNAV NOTICE 3090

From: Chief of Naval Operations

Subj: COMMAND, CONTROL, COMMUNICATION, COMPUTERS, AND
INTELLIGENCE SYSTEMS PROGRAM ROADMAP

Ref: (a) OPNAVINST 3090.1
       (b) OPNAVINST 2300.44G
       (c) PEO C4I ltr 11010 PEO C4I/136 of 10 Sep 09

Encl: (1) Program Executive Officer (PEO) Command, Control,
           Communications, Computers and Intelligence (C4I)
           Systems Program Roadmap
       (2) Other Systems Program Roadmaps

1. Purpose. To publish the Navy Command, Control,
Communications, Computers and Intelligence (C4I) systems program
roadmap for fiscal years (FYs) 2010 through 2017 as directed by
reference (a) to align Navy C4I systems procured by shipbuilding
and conversion programs with those supported by the Navy
Modernization Plan (NMP). The C4I systems program roadmap:

    a. Provides the delivery, sustainment, and migration plan;

    b. Is the foundation for the NMP;

    c. Identifies systems which satisfy the ship capability
requirements for in-service ships established by reference (b);

    d. Identifies systems which satisfy the shipbuilding and
conversion requirements that are the same or nearly the same as
that being implemented by the NMP at ship custody transfer; and

    e. Prevents the introduction of unique systems, which do
not follow an established C4I systems roadmap.

2. <u>Background</u>. By reference (a), Deputy Chief of Naval Operations for Information Dominance (CNO (N2/N6)) is responsible for the development of C4I systems in response to Department of the Navy and Joint requirements, and publication of C4I systems program roadmaps.

3. <u>Policy</u>

    a. Shipbuilding programs shall align with the NMP.

    b. The C4I suites for new construction ships and major conversion of in-service ships shall be composed of Navy, Marine Corps, or Joint program systems that are:

        (1) Supported by existing infrastructure; or

        (2) Funded, in development, and aligned with the shipbuilding or conversion schedule.

    c. The C4I systems baseline, program roadmap, and capabilities plan will support the Program Objective Memorandum development.

4. <u>Action</u>

    a. The ship C4I suite of systems will be developed per reference (a), using the products of the C4I systems program roadmaps, enclosures (1) and (2), to employ common C4I systems, address the ship requirements, and support the ship acquisition strategy. Reference (c), appendix E is the basis for enclosure (1) and may be accessed at the Program Executive Officers (PEO) C4I [PresBud10 Integrated Roadmap](https://nserc.navy.mil/peo_c4i/se2/dpeo/dpeoplatform/Roadmap/Forms/AllItems.aspx?RootFolder=%2fpeo%5fc4i%2fse2%2fdpeo%2fdpeoplatform%2fRoadmap%2fPB10%20Integrated%20Roadmap%2fPB10%20Deskbook&FolderCTID=&View=%7bBEFCD568%2d499E%2d4E9D%2dB00D%2d963F1C70E40A%25) Web site at
https://nserc.navy.mil/peo_c4i/se2/dpeo/dpeoplatform/Roadmap/Forms/AllItems.aspx?RootFolder=%2fpeo%5fc4i%2fse2%2fdpeo%2fdpeoplatform%2fRoadmap%2fPB10%20Integrated%20Roadmap%2fPB10%20Deskbook&FolderCTID=&View=%7bBEFCD568%2d499E%2d4E9D%2dB00D%2d963F1C70E40A%25.

    b. Deputy Chief of Naval Operations, Integration of Capabilities and Resources (CNO (N8)) and CNO (N2/N6), supported by Commander, Space and Naval Warfare Systems Command; Commander, Naval Network Warfare Command; and in coordination

with the cognizant PEOs (e.g., PEO C4I, PEO Ships, PEO Integrated Warfare Systems), will develop, publish and biennially update the C4I systems program roadmap.

5. Cancellation Contingency. This notice will remain in effect for one year unless otherwise superseded, whichever occurs first.

DAVID J. DORSETT
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Deputy Chief of Naval Operations
for Information Dominance

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**Program Executive Officer (PEO) Command, Control,
Communications, Computers and Intelligence (C4I) Systems Program
Roadmap**

1. <u>PEO C4I Roadmap</u>. The PEO C4I roadmap:

    a. Lists the PEO C4I product inventory, including variants;

    b. Shows the systems (products) migration over time;

    c. Shows the health of the migrations;

    d. Has system groupings by portfolios (families of
systems);

    e. Shows which systems are installed on which platforms;
and

    f. Shows the health of fielding the systems.

2. <u>Portfolios</u>. The PEO C4I Roadmap is divided into six major
portfolios:

    a. Communications

    b. Networks

    c. Common Computing Environment

    d. Common Services

    e. Application Services

    f. Cross-Cutting Services

3. <u>Tier 1 and Tier 2 Groupings</u>. The portfolios are sub-divided
into 13 tier 1 groupings, which are further sub-divided into 37
tier 2 groupings.

4. <u>Platform Groupings</u>. Platforms are grouped as follows:

    a. "FORCE" includes multi-purpose aircraft carrier
(nuclear) (CVN), amphibious command ship (LCC), amphibious
assault ship (general purpose) (LHA), amphibious assault ship
(multipurpose)(LHD).

    b. "GROUP" includes guilded missile cruiser (CG), guided
missile destroyer (DDG)-51, DDG-1000, amphibious transport dock
(LPD)-17.

    c. UNIT includes guided missile frigate (FFG), littoral
combat ship (LCS), LPD-4, dock landing ship (LSD), mine
countermeasures ship (MCM), patrol costal (PC)

    d. SUBS includes submarine (nuclear) (SSN), ballistic
missile submarine (nuclear) (SSBN), guided missile submarine
(nuclear) (SSGN).

    e. "SHORE" includes aviation activity (naval), base
communications infrastructure (naval), communications site
(Navy), logistics activity (Navy), Marine Corps activity,
meteorological and oceanographic activity (Navy), mobile
platform (Navy), TACAMO site (Navy), training site (Navy), and
non-naval activity other.

    f. "AIR" includes cargo, electronic, electronic patrol,
electronic attack, fighter, fighter/attack, patrol, unmanned
aerial vehichle/unmanned aircraft system, trainer, and
helicopter.

    g. "AUX" (for "auxiliary") includes rescue and salvage (T-
ARS), submarine tender (AS), hospital (T-AH), combat stores (T-
AFS), fleet replenishment oilers (T-AO), dry cargo/ammunition
(T-AKE), and fast combat support (T-AOE).

5. <u>Platform Health (dots)</u>. A dot represents a fielding
requirement for each system. The color of each dot indicates
the funding across the Future Years Defense Plan, as shown in
figure 1 below.

	Platform Health "Dot" Legend % Inventory: Funded / Required	
🟢	Greater than 90% Funded
🟡	Between 50% and 90% Funded
🔴	Less than 50% Funded
🔵	Funding Unspecified

Figure 1: Platform Health Key

6. <u>Product Phase and Health (bars)</u>

    a.   Color is also applied to lines that indicate the health of the system. A normal health line would show blue during the developmental phase, green during the production/fielding phase, and a grey during the sustainment phase. The blue developmental phase ends at initial operational capability (IOC) of the system. Production/fielding phase ends at full operational capability (FOC). Sustainment ends at end of life (EOL).

    b.   While blue, green, and grey indicate phases, red and yellow are used to indicate sustainment issues, which are defined in reference (c), such as declining performance due to a lack of availability of spare parts. Yellow during fielding could indicate performance issues, whereas yellow during post FOC sustainment could indicate a lack of in-service engineering support.

    c.   Some systems are represented in the roadmap, but are not PEO C4I systems, such as the Joint Tactical Radio System (JTRS). These systems are on the migration path of PEO C4I systems, or are important to the migration of PEO C4I systems, but not managed by PEO C4I. The lines associated with these systems are uncolored.

Enclosure (1)

Product Health "Bar" Legend		Notes
	Development Phase	Development Phase typically ends at IOC.
	Fielding Phase	Fielding Phase typically begins at IOC and ends at FOC
	Sustainment Phase	Sustainment Phase typically begins at FOC and ends at EOL
	Moderate Issues	Can be applied to any or all phases, as well as, migration arrows where there are moderate issues
	Major Issues	Can be applied to any or all phases, as well as, migration arrows where there are major issues

Figure 2: Product Health Key

7. PEO C4I Point of Contact. PEO C4I point of contact for the program roadmaps is Ms Ruth Youngs-Lew at ruth.youngslew@navy.mil.

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
Narrowband	170	MINI DAMA	AN/USC-42	UHF SATCOM Mini-DAMA Transceiver		●	●	●				MINI-DAMA										
	170	MD-1324	MD-1324	UHF SATCOM DAMA Modem	●	●	●	●				MD-1324										
	170	MD-1324	MD-1324A EC2	UHF SATCOM DAMA (IW Capable) Modem	●	●	●		●			MD-1324A EC2 (IW Capable)										
	170	VICS	AN/USC-54	UHF SATCOM/LOS Transceiver (VME Integrated Comms System (VICS))		●		●				VICS										
	170	DAMA	TD-1271	UHF SATCOM DAMA Multiplexer	●	●	●					TD-1271										
	170	ARC-210/SRC-27	AN/ARC-210/SRC-27	UHF SATCOM (Digital Communications System) Transceiver	●							ARC-210										
	170	OE-82	OE-82	UHF SATCOM Antennas	●	●	●					OE-82										
	170	OE-570	OE-570	UHF SATCOM Antennas	●	●					●	OE-570										
	170	WSC-3	AN/WSC-3	UHF SATCOM Transceiver	●	●	●	●	●			WSC-3										
	170	DMR	AN/USC-61(C)	UHF SATCOM Transceiver	●	●		●	●			DMR										
	170 / 770	DAMA I.W.	AN/PSC-5D	UHF SATCOM Transceiver				●				PSC-5D	PSC-5D (IW Capable)									
	170 / 770	Integrated Waveform	AN/PSC-5D	UHF SATCOM Transceiver: I.W. on AN/PSC-5D				●					PSC-5D (IW Capable)									
	170 / 770	Integrated Waveform	MD-1324A(X)	UHF SATCOM Transceiver: I.W. on MD-1324A(X)				●				MD-1324 (IW Capable)										
	170	Navy M/FS JTRS	Navy M/FS JTRS	Software reprogrammable multi-band/multi-mode radio	●	●	●	●	●	●		JTRS							JTRS Inc 1			
	770	TRIP	TRIP	Trident IP				●				Trident IP (TRIP Ph 3)										
	770	SCSS	SCSS	Submarine Communications Support System. Legacy radio room for 688's.				●				SCSS - Legacy SSN 688 Radio Room								SCSS - Legacy SSN 688 Radio		
	770	CSRR	CSRR	Common Submarine Radio Room				●				CSRR	Inc 1 ver 1	Inc 1 ver 2			Inc 1 ver 3			Inc 1 ver 4		
	770	OE-538/BRC OE-592/BRC	OE-538/BRC (SSN) OE-592/BRC (BN/GN)	UHF SATCOM multi-functional combined communications, navigation, and IFF mast mounted				●				OE-538, -592										
	770	OE-538 Increment 1	OE-538	UHF SATCOM multi-functional combined communications, navigation, and IFF mast mounted				●				OE-538 Inc 1										
	770	OE-538 Increment 2	OE-538(V)X	UHF SATCOM multi-functional combined communications, navigation, and IFF mast mounted				●				OE-538 Inc 2										
	770	OE-592 Increment 1	OE-592	OE-538 version that is installed on on SSBNs.				●				OE-592 Increment 1										
	770	OE-592 Increment 2	OE-592(V)X	OE-538 version that is installed on on SSBNs.				●				OE-592 Increment 2										

Enclosure (1)

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							Timeline (FY07–FY17+)
					Force	Group	Unit	Sub	Shore	Air	Aux	
	770	Comms at Speed and Depth (CSD)	AN/BRR-(V)	Buoy Systems				●				CSD — CSD funding zeroed in PR11
	770	Comms at Speed and Depth (CSD) Inc 0 (Joint Demo with UK)	AN/BRR-(V)A	Retractable Tethered Optical Fibre (RTOF) Buoy (UHF)				●				RTOF — Experiment Ends
	770	Comms at Speed and Depth (CSD) Inc 1	AN/BRT-(V)B	UHF Tethered Expendable Buoy				●				UHF TEB — CSD funding zeroed in PR11
	770	Comms at Speed and Depth (CSD) Inc 1	AN/BRT-(V)C	IRIDIUM Tethered Expendable Buoy				●				IRIDIUM TEB — CSD funding zeroed in PR11
	770	Comms at Speed and Depth (CSD) Inc 1	AN/BRT-(V)D	Acoustic-To-RF Expendable Bouy (A2RF)				●				A2RF — CSD funding zeroed in PR11
	770	Comms at Speed and Depth (CSD) Inc 0	AN/BRT-(V)E	IRIDIUM Tactical Paging Buoy ("Deep Siren")				●				TPB ACTD — Experiment ended. Decision made NOT to field.
	770	TFDS	AN/BSQ-9(V) 1 - 8	Time Frequency Distribution System				●	●			TFDS
PEO SPACE		MUOS							●			MUOS
	790	JMINI	AN/FSQ-207(V)X JMINI	JMINI					●			JMINI IOC — FOC — JMINI IW Sustainment
	790	JMINI IOC	AN/FSQ-207(V)X JMINI IOC	IOC variant					●			JMINI IOC
	790	JMINI FOC	AN/FSQ-207(V)X JMINI FOC	FOC variant					●			FOC
DISA		JMINI IW	AN/FSQ-207(V)X JMINI IW	IW variant					●			JMINI IW Development
	790	JMINI IW	AN/FSQ-207(V)X JMINI IW	IW variant					●			JMINI IW Sustainment
Command and Control	750	TacMobile Inc 3.0							●			TacMobile Inc 3.0

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							Schedule
					Force	Group	Unit	Sub	Shore	Air	Aux	FY07–FY17+
Wideband	170	NMT		Military SHF and EHF SATCOM	●	●	●	●	●			NMT / NMT ED
	170	WSC-8	AN/WSC-8	Commercial Wideband C-band SATCOM	●	●			●			WSC-8
	170	WSC-8	AN/WSC-8(V)1	Commercial Wideband C-band SATCOM (single antenna)	●	●			●			
	170	WSC-8	AN/WSC-8(V)2	Commercial Wideband C-band SATCOM (dual antenna)	●							
	170	INMARSAT	INMARSAT	Commercial L-band SATCOM		●	●		●			INMARSAT
	170	CBSP	AN/USC-69(V)	Commercial Ku, C, X band SATCOM	●	●	●		●			CBSP
	170	CBSP	AN/USC-69(V)1	Commerical Ku-Band SATCOM			●					
	170	CBSP	AN/USC-69(V)2	Commerical Ku, X-Band SATCOM		●						
	170	CBSP	AN/USC-69(V)3	Commerical Ku, C-Band SATCOM	●				●			
	170	WSC-6	AN/WSC-6	Military SHF SATCOM	●	●	●		●			WSC-6
	170	WSC-6	AN/WSC-6(V)5	Military SHF SATCOM	●	●						
	170	WSC-6	AN/WSC-6(V)7	Military SHF SATCOM	●	●	●					
	170	WSC-6	AN/WSC-6(V)9	Military SHF SATCOM	●	●			●			
	170 770	FOT/SHF (Submarine Only)	AN/USC-38(V)13	EHF/SHF Terminal				●				FOT SHF
	770	SubHDR Antenna	OE-562	SubHDR Mast Group for EHF low data rate (LDR) capacity, EHF MDR, GBS Receive capability and SHF capability				●				Sub HDR
	770	SubHDR Antenna	OE-562	SubHDR Mast Group for EHF low data rate (LDR) capacity, EHF MDR, GBS Receive capability and SHF capability				●				Sub HDR
	770	SubHDR Antenna GBS/SHF Kit Upgrades	OE-562A	SubHDR Mast Group for EHF low data rate (LDR) capacity, EHF MDR, GBS Receive capability and SHF capability				●				Sub HDR w/ SHF Upgrade
	770	Advanced HDR Antenna	OE-562(V)X	Next-generation multi-band antenna for wideband and protected comms for subs				●				Advanced HDR
	770	SCSS	SCSS	Submarine Communications Support System. Legacy radio room for 688's.				●				SCSS - Legacy SSN 688 Radio Room
	770	CSRR	CSRR	Common Submarine Radio Room				●				CSRR / Inc 1 ver 1 / Inc 1 ver 2 / Inc 1 ver 3 / Inc 1 ver 4

Enclosure (1)

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)								FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux												
Protected	170	NMT		Military SHF and EHF SATCOM	●	●	●	●	●	●													
	170	NMT	AN/WSC-9(V)1	Surface Variant / Q/Ka/GBS: CG 2 Q/Ka ANT	●	●	●																
	170	NMT	AN/WSC-9(V)2	Surface Variant / Q/X/Ka/GBS: CG 2 Q/Ka ANT + 2X/Ka Small ANT		●																
	170	NMT	AN/WSC-9(V)3	Surface Variant / Q/X/Ka/GBS: CG 2 Q/Ka ANT + 1X/Ka Large ANT	●		●															
	170	NMT	AN/WSC-9A(V)3	Surface Variant / Q/X/Ka/GBS: CG 2 Q/Ka ANT + 2X/Ka Large ANT	●	●	●															
	170	NMT	AN/WSC-9(V)4	Surface Variant / Q: FMS																		
	170	NMT	AN/BSC-3(V)1	Submarine Variant / Q/Ka/GBS: CG HPA, Scope				●														
	170	NMT	AN/BSC-3(V)2	Submarine Variant / Q/Ka/GBS: CG MG				●														
	170	NMT	AN/BSC-3(V)3	Submarine Variant / Q/Ka/GBS: CG 2 MGs				●														
	170	NMT	AN/BSC-3(V)4	Submarine Variant / Q: FMS																		
	170	NMT	AN/FSC-138(V)1	Shore Variant / Q: CG, Q ANT					●													
	170	NMT	AN/FSC-138(V)2	Shore Variant / Q: CG, Q ANT					●													
	170	NMT	AN/FSC-138(V)3	Shore Variant / Q: CG with EPS GCE, Q ANT					●													
	170	NMT	AN/FSC-138(V)4	Shore Variant / Q: CG , Q ANT FMS																		
	170 770	FOT/SHF (Submarine Only)	AN/USC-38(V)13	EHF/SHF Terminal				●														
	170	EHF	AN/USC-38	Military EHF SATCOM	●	●	●	●	●													
	170	EHF-LDR	AN/USC-38(V)1	Submarine EHF LDR				●	●													
	170	EHF-LDR	AN/USC-38(V)2	Surface EHF LDR	●	●	●		●													
	170	EHF-LDR	AN/USC-38(V)3	Shore EHF LDR					●													
	170	EHF-MDR	AN/USC-38(V)4	Surface EHF MDR	●	●	●		●													
	170	EHF-MDR	AN/USC-38(V)5	Ship EHF MDR	●																	
	170	EHF-MDR	AN/USC-38(V)6	Shore EHF MDR					●													
	170	EHF-MDR	AN/USC-38(V)7	Shore EHF MDR					●													

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site) Force	Group	Unit	Sub	Shore	Air	Aux	Timeline
	170	EHF-HDR	AN/USC-38(V)8	Submarine EHF HDR				●				
	170	EHF-FOT	AN/USC-38(V)9	Surface FOT	●	●	●		●			
	170	EHF-FOT	AN/USC-38(V)10	SHore FOT					●			
	170	EHF	AN/USC-38(V)11	Submarine FOT				●	●			
	170	EHF-FOT	AN/USC-38(V)12	Submarine FOT				●				
	170	EHF-FOT	AN/USC-38(V)13	Submarine FOT SSBN				●				
	770	Type 8 Mod 3 EHF Periscope Antenna	OE-499	EHF Periscope Antenna				●				OE-499 Periscope EHF Antenna / tPA Replacement Needed
	770	SubHDR Antenna	OE-562	EHF/SHF Antenna for FOT				●				OE-562
	770	SubHDR Antenna	OE-562	SubHDR Mast Group for EHF low data rate (LDR) capacity, EHF MDR, GBS Receive capability and SHF capability				●				Sub HDR
	770	SubHDR Antenna GBS/SHF Kit Upgrades	OE-562A	SubHDR Mast Group for EHF low data rate (LDR) capacity, EHF MDR, GBS Receive capability and SHF capability				●				Sub HDR w/ SHF Upgrade
	770	Advanced HDR Antenna	OE-562(V)X	Next-generation multi-band antenna for wideband and protected comms for subs				●				Advanced HDR
	770	SCSS	SCSS	Submarine Communications Support System. Legacy radio room for 688s.				●				SCSS - Legacy SSN 688 Radio Room
	770	TRIP	TRIP	Trident IP				●				Trident IP (TRIP Ph 3)
	770	IRR	IRR	Integrated Radio Room. Legacy Trident radio room.				●				IRR - Legacy SSBN Radio Room
	770	CSRR	CSRR	Common Submarine Radio Room				●				CSRR / Inc 1 ver 1 / Inc 1 ver 2 / Inc 1 ver 3 / Inc 1 ver 4
	770	CSRR Inc 1 ver 0	CSRR Inc 1 ver 0	Common Submarine Radio Room				●				CSRR Inc 1 ver 0
	770	CSRR Inc 1 ver 1	CSRR Inc 1 ver 1	Common Submarine Radio Room				●				CSRR Inc 1 ver 1
	770	CSRR Inc 1 ver 2 (SHF)	CSRR Inc 1 ver 2	Common Submarine Radio Room				●				CSRR Inc 1 ver 2 (SHF)
	770	CSRR Inc 1 ver 3 (NMT, ADNS3)	CSRR Inc 1 ver 3	Common Submarine Radio Room (a.k.a. Wideband C4I Ph 2)				●				CSRR Inc 1 ver 3 (NMT, ADNS3)
	770	CSRR Inc 1 ver 4 (JTRS, MUOS)	CSRR Inc 1 ver 4	Common Submarine Radio Room (a.k.a Narrowband C4I Ph 2)				●				Inc 1 ver 4 (MUOS)
Broadcast	170	GBS	AN/USR-10	Military Ka-band Receive-only Broadcast	●	●	●	●	●			GBS RBM

Timeline columns: FY07 FY08 FY09 FY10 FY11 FY12 FY13 FY14 FY15 FY16 FY17+

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
Protected	170	NMT		Military SHF and EHF SATCOM	●	●	●	●	●													
Broadcast	170	GBS	AN/USR-10	Military Ka-band Receive-only Broadcast	●	●	●	●	●													
	170	GBS	GBS Split IP	GBS two-way using asymmetric reach back via another circuit				●	●													
	170	GBS	AN/USR-10(V)3	Military Ka-band Receive-only Broadcast				●														
	170	GBS	AN/USR-10(V)4	Military Ka-band Receive-only Broadcast	●			●														
	170	GBS	AN/USR-10(V)5	Military Ka-band Receive-only Broadcast		●	●															
	170	TV-DTS	OE-556	Commercial C-band Receive-only TV		●	●	●														
	170	TV-DTS	OE-556/U	Commercial C-band Receive-only TV - single antenna		●	●															
	170	TV-DTS	OE-556A/U	Commercial C-band Receive-only TV - dual antenna		●	●															
	770	CSRR	CSRR	Common Submarine Radio Room				●														
	770	SubHDR Antenna	OE-562	Mast group used for EHF LDR/MDR, SHF and GBS.				●														
	770	OLC	TBD	Laser COMMS				●														
	170	FLTBCST	SSR-1/A	UHF SATCOM receiver	●	●	●	●	●													
	170	FLTBCST	AN/USQ-122	UHF SATCOM receiver	●	●	●															
Command & Control	750	TacMobile Inc 3.0						●														

Portfolio Name: Tactical Data Links

Platform (Site): Force, Group, Unit, Sub, Shore, Air, Aux

PMW	System Name	Variant Name	Descriptor	Platform (Site)	Timeline (FY07–FY17+)
150	JTIDS	AN/URC-107(V)7	Joint Data Communication Network	Force, Group, Unit, Shore, Air	JTIDS 4.09 → JTIDS 4.11 → JTIDS (TBD)
150	JTIDS /4.09 Maintenance	AN/URC-107(V)7	Joint Data Communication Network	Force, Group, Shore, Air	JTIDS 4.09 DNM RC/Combined NPGs
150	JTIDS/4.11 Maintenance	AN/URC-107(V)7	Joint Data Communication Network	Force, Group, Shore, Air	JTIDS 4.11
150	JTIDS/TBD Maintenance	AN/URC-107(V)X	Joint Data Communication Network	Group, Shore, Air	JTIDS (TBD)
150	MIDS On Ship	AN/URC-141(C)	Multifunctional Data Communication Network	Force, Group, Unit	MIDS on Ship → BC4 → BC5
150	MIDS on Ship (MOS) BC3 Maintenance	AN/URC-141(C)	Multifunctional Data Communication Network	Force, Group, Unit	MOS BC3
150	MIDS on Ship (MOS) BC4 Maintenance	AN/URC-141(C)	Multifunctional Data Communication Network	Force, Group, Unit, Sub	MOS BC4
150	MIDS on Ship (MOS) DNM BC5	AN/URC-141(C)	Multifunctional Data Communication Network	Force, Group, Unit	MOS BC5
150	MIDS on Ship (MOS) DNM BC6	AN/URC-141(C)	Multifunctional Data Communication Network		MOS BC6
150	MIDS on Ship (MOS) DNM BC7	AN/URC-141(C)	Multifunctional Data Communication Network		MOS BC7
150	C2P	C2P	Command and Control Processor System	Force, Group, Shore	C2P → NGC2P Inc 2 → NGC2P Inc 3
150	C2P (C2PR)	AN/UYQ-62(V)1	Command and Control Processing System / Inc.1 (includes (V)1-4 and Training Variant	Force, Group, Shore	C2PR
150	NGC2P Inc.2	AN/UYQ-86(V)6	Command and Control Processing System [includes (V)1-6]	Force, Group, Shore	NGC2P Inc 2
150	NGC2P Inc.3	AN/UYQ-86(V)X	Command and Control Processing System	Force, Group, Shore	NGC2P Inc 3
150	C2P	C2P	Command and Control Processor System	Force, Group, Shore	CDLMS → CDLMS 3.7 → CDLMS 3.X
150	CDLMS 3.4	CDLMS 3.4	Common Data Link Mgmt System		CDLMS 3.4
150	CDLMS 3.6	CDLMS 3.6	Common Data Link Mgmt System		CDLMS 3.6
150	CDLMS 3.7	CDLMS 3.7	Common Data Link Mgmt System / ECPs: BMD / Imagery / ADNS Inc III		CDLMS 3.7
150	CDLMS 3.X	CDLMS 3.X	Common Data Link Mgmt System / Link-22 Integration		CDLMS 3.X
150	ADSI	AN/TSQ-214(V)2	Air Defense Integration System	Force, Group, Shore	ADSI
150	JSS	JSS	Link Management Support System	Force, Group, Shore	JSS
150 / 770	Link-16	Link-16	Provide native Link-16 to submarines	Sub	Submarine Link 16
770	OE-538 Increment 2	OE-538(V)X	UHF SATCOM multi-functional combined communications, navigation, and IFF mast mounted	Shore	OE-538 Increment 2

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)						FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux										
	770	OE-592 Increment 2	OE-592(V)X	OE-538 version that is installed on on SSGNs.				●				OE-592 Increment 2									
	770	CSRR	CSRR	Common Submarine Radio Room				●				CSRR	Inc 1 ver 1	Inc 1 ver 2			Inc 1 ver 3				Inc 1 ver 4

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site): Force	Group	Unit	Sub	Shore	Air	Aux	Timeline (FY07–FY17+)
Tactical Comms	170	Antenna Tilting Group (ATG)	0A-9242 OA-9243	Antenna Tilting Group (ATG)	●	●	●					ATG
	170	VHF LOS Transceiver	AN/GRC-211 AN/GRC-171 AN/URC-93	Bridge-to-Bridge VHF LOS transceiver	●	●	●					GRC-211/GRC-171/URC-93
	170	ARC-210	AN/ARC-210	UHF LOS transceiver	●							ARC-210
	170	WSC-3	AN/WSC-3	UHF LOS transceiver	●	●	●	●	●			WSC-3
	170	DMR	AN/USC-61(C)	VHF/UHF LOS transceiver	●	●	●		●	●		DMR
	170	Navy M/FS JTRS	Navy M/FS JTRS	Software reprogrammable multi-band/multi-mode radio	●	●	●	●				JTRS INC
	170	DWTS	AN/SRC-57	UHF LOS transceiver for BISOG efforts	●	●	●					DWTS
	170	SINCGARS	AN/SRC-54	VHF LOS transceiver	●	●	●					SINCGARS
	170	EPLRS-DR	AN/SRC-60	HF LOS/BLOS transceiver for BISOG efforts	●	●	●					EPLRS-DR
	170	HFRG	AN/URC-131 / AN/URC-109	HF transceiver	●	●	●					HFRG
	170	HFSAR (HF ALE)	AN/URC-146(V)	HF LOS/BLOS transceiver for BISOG efforts	●	●	●					HFSAR (HF ALE)
	170	HF Legacy	AN/URT-23 /AN/URT-24	HF transmitter	●	●	●	●				HF Legacy
	170	CSEL	AN/PRQ-7	V/UHF SATCOM portable, handheld transceiver	●	●	●					CSEL
	170	PRP	PRP	Family of V/UHF LOS and UHF SATCOM portable, handheld transceivers	●	●	●	●				PRP
	170	TSS	AN/SSQ-122	UHF/SHF LOS COMMS switching architecture	●	●	●					TSS
	170	TVS	AN/USQ-155	Automated digital switching between transmitters and receivers	●	●	●					TVS (SCN Fielding Only)
	170	Red/Black Switch	SA-2112	Family of analog/digital switches	●	●	●					SA-2112
	170	BFEM 66	AN/UYQ-92	HF data transfer modem	●	●	●	●				BFEM 66
	170	HFIP	AN/USQ-195	HF LOS IP networking	●	●	●	●				HFIP
	170	SNR	AN/USQ-195	V/UHF LOS IP networking	●	●	●	●				SNR
	170	Mobile Network High Bandwidth (MNH)	Mobile Network High Bandwidth (MNH) Increment I	High Bandwidth Netted Communication providng maximum data rates upto 54 Mpbs	●	●	●					MNH Inc I
	170	Mobile Network High Bandwidth (MNH)	Mobile Network High Bandwidth (MNH) Increment II	High Bandwidth Netted Communication providng maximum data rates upto 1 Gbps	●	●	●	●				MNH Inc II
	170	CHBDL	AN/USQ-123	X/Ku band LOS data link	●							CHBDL

Enclosure (1)

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
	170	CDLS	AN/USQ-167	X/Ku band LOS data link	●							CDLS										
	770	OE-538/BRC OE-592/BRC	OE-538/BRC (SSN) OE-592/BRC (BN/GN)	UHF SATCOM multi-functional combined communications, navigation, and IFF mast mounted				●				OE-538, -592										
	770	OE-538 Increment 1	OE-538	Mast antenna system for VLF/LF, MF/HF, VHF, and UHF LOS/SATCOM				●														
	770	OE-538 Increment 2	OE-538	Mast antenna system for VLF/LF, MF/HF, VHF, and UHF LOS/SATCOM				●														
	770	OE-592 Increment 1	OE-592	Mast antenna system for VLF/LF, MF/HF, VHF, and UHF LOS/SATCOM				●														
	770	OE-592 Increment 2	OE-592	Mast antenna system for VLF/LF, MF/HF, VHF, and UHF LOS/SATCOM				●														
	770	CSRR	CSRR	Common Submarine Radio Room				●				CSRR	Inc 1 ver 1	Inc 1 ver 2		Inc 1 ver 3				Inc 1 ver 4		
	770	Floating Wire Antenna (FWA)	OE-315	Submarine Antenna Modernization System				●				OE-315	OE-315 with T/R switch for HF Transmit									
	770	Floating Wire Antenna (FWA)	AS-3434 (V) (TBD)	Subsurface Autonomous Mapping System				●				OE-315 FWA										
	770	Floating Wire Antenna (FWA)	AS-3434 (V) (TBD)	Subsurface Autonomous Mapping System				●				OE-315 w/ T/R Sw for HF Tx										
	770	SEEAS	AN/BST-1	Submarine Enhanced Emergency Alert System				●				SSEAS BST-1										
	770	SLVR	AN/WRR-12	Submarine VLF/LF VME Receiver				●	●			SLVR										
	770	LBUCS	AN/URT-(V)(X)	Low Band Universal Communications System , Transmit only					●					LBUCS Transmit (Shore)								
	770	LBUCS	AN/WRR-(V)(X)	Low Band Universal Communications System , Receive				●	●											LBUCS Receive		
	790	HF Modernization to USAF	HF Modernization to USAF	HF Modernization					●				HF Modernization to USAF									

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site) Force	Group	Unit	Sub	Shore	Air	Aux	Timeline (FY07–FY17+)
Terrestrial Transport / Backhaul	770	SWAN	SWAN (shore only)	Submarine Operating Authority Wide Area Network					●			SWAN
	770	SWAN (COOP)	SWAN (shore only)	Submarine Operating Authorities Wide Area Network					●			SWAN with COOP
	770	FSBS	FSBS	Fixed Submarine Broadcast System (FSBS)					● (red)			FSBS Heavy Metal antennas
	770	NC3 HS	NC3 HS (shore only)	Nuclear Command and Control Hybrid Solution					● (yellow)			NC3 HYBRID SOLUTION
	770	NC3 LTS	NC3 LTS (shore only)	Nuclear Command and Control Long Term Solution					● (red)			NC3 LTS
	770	Shore receivers for AN/BST-1 buoy (SSBNs)	MERLIN (shore only)	HF ciruit used for emergency reportback.					●			MERLIN
	790	HSGR	HSGR	HSGR					●			HSGR
	790	NTWAN	NTWAN	NTWAN					● (yellow)			NTWAN
	790	ADMS	ADMS ATM	ATM					●			ADMS ATM
	790	ADMS	ADMS ST1000	ST1000					●			ADMS ST1000
	790	Teleport	Teleport	Teleport (Overall)					●			Teleport / Teleport GEN III
	790	Teleport	Teleport GEN I	GEN I					●			Teleport GEN I
	790	Teleport	Teleport GEN II	GEN II					●			Teleport GEN II
	790	Teleport	Teleport GEN III	GEN III					●			Teleport GEN III

Portfolio	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
Name					Force	Group	Unit	Sub	Shore	Air	Aux											
	160	CANES	CANES	CONSOLIDATED AFLOAT NETWOKS ENTERPRISE SERVICES	●	●	●	●	●													
	160	CANES Inc 1	CANES (V)X	CONSOLIDATED AFLOAT NETWOKS ENTERPRISE SERVICES	●	●	●	●	●													
	160	CANES Inc 2	CANES (V)Y	CONSOLIDATED AFLOAT NETWOKS ENTERPRISE SERVICES	●	●	●	●	●													
	160	VIXS A(V)R?			●	●																
	160	ISNS - Inc 0 ATM	AN/USQ-153(V)1,2,3,9	TACTICAL LAN INFRASTRUCTURE	●	●																
	160	ISNS - Inc 0 100MB	AN/USQ-153(V)3	TACTICAL LAN INFRASTRUCTURE			●															
	160	ISNS - Inc 0 GIGE BF	AN/USQ-153(V)1/2 with EC017R3	TACTICAL LAN INFRASTRUCTURE	●	●	●															
	160	ISNS - Inc 0 SCN GIG-E DDGs 89-102	AN/USQ-153B(V)9	TACTICAL LAN INFRASTRUCTURE			●															
	160	ISNS - Inc 0 CFCP	AN/USQ-153(V)4/5	TACTICAL LAN INFRASTRUCTURE			●															
	160	ISNS - Inc 0/1	AN/USQ-153A(V)X/(V)8/B(V)2/9	TACTICAL LAN INFRASTRUCTURE	●	●	●															
	160	ISNS - Inc I	AN/USQ-153A(V)1	TACTICAL LAN INFRASTRUCTURE	●		●															
	160	ISNS - Inc I	AN/USQ-153A(V)2	TACTICAL LAN INFRASTRUCTURE	●																	
	160	ISNS - Inc I	AN/USQ-153A(V)5	TACTICAL LAN INFRASTRUCTURE (PC VARIANTS)			●															
	160	ISNS - Inc I	AN/USQ-153A(V)9	TACTICAL LAN INFRASTRUCTURE	●	●																
	160	ISNS - Inc I	AN/USQ-153(V)8	TACTICAL LAN INFRASTRUCTURE (MCM)			●															
	160	ISNS - Inc I	AN/USQ-153B(V)2	TACTICAL LAN INFRASTRUCTURE	●																	
	160	ISNS - Inc I	AN/USQ-153X(V)10	TACTICAL LAN INFRASTRUCTURE	●	●																
	160	ISNS - Inc I	AN/USQ-153B(V)10	TACTICAL LAN INFRASTRUCTURE	●																	
	160	ISNS - Inc I	AN/USQ-153(V)10	TACTICAL LAN INFRASTRUCTURE			●															
	160	ISNS - Inc I	AN/USQ-153C(V)10	TACTICAL LAN INFRASTRUCTURE	●																	
	160	ISNS - Inc I	AN/USQ-153C(V)X	TACTICAL LAN INFRASTRUCTURE. Initial Server Consolidation	●	●	●															
	160	ISNS - Inc I	AN/USQ-153C(V)1	TACTICAL LAN INFRASTRUCTURE	●		●															
	160	ISNS - Inc I	AN/USQ-153C(V)9	TACTICAL LAN INFRASTRUCTURE	●	●																

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site) Force	Group	Unit	Sub	Shore	Air	Aux	Timeline FY07–FY17+
Networks Afloat	160	ISNS - Inc I MOD I	AN/USQ-153C(V)	TACTICAL LAN INFRASTRUCTURE	●	●	●					ISNS - Inc I MOD I
	160	ISNS - Inc I	AN/USQ-153B/C/D(V)X	TACTICAL LAN INFRASTRUCTURE. Expansion of Server Consolidation	●	●	●					AN/USQ-153 B/C/D(V)X
	160	ISNS - Inc I	AN/USQ-153D(V)1	TACTICAL LAN INFRASTRUCTURE	●							D(V)1
	160	ISNS - Inc I	AN/USQ-153D(V)2	TACTICAL LAN INFRASTRUCTURE	●							D(V)2
	160	ISNS - Inc I	AN/USQ-153D(V)9	TACTICAL LAN INFRASTRUCTURE		●	●					D(V)9
	160	WRBS	AN/SSQ-131	WIRELESS REACH BACK SYSTEM		●	●					WRBS
	160	WRBS (V)1	AN/SSQ-131(V)1	WIRELESS REACH BACK SYSTEM		●	●					WRBS (V)1
	160	WRBS A(V)1	AN/SSQ-131A(V)1	WIRELESS REACH BACK SYSTEM		●	●					WRBS A(V)1
	160	WRBS B(V)1	AN/SSQ-131B(V)1	WIRELESS REACH BACK SYSTEM		●	●					WRBS B(V)1
	160	SCI NETWORKS - AFLOAT	AN/USQ-148	NA	●	●	●	●	●			SCI NETWORKS - AFLOAT
	160	SCI NETWORKS - AFLOAT	AN/USQ-148A(V)2	LEGACY GROUP LEVEL	●							AN/USQ-148A(V)2
	160	SCI NETWORKS - AFLOAT	AN/USQ-I48B(V)2	LEGACY FORCE LEVEL	●							AN/USQ-I48B(V)2
	160	SCI NETWORKS - AFLOAT	AN/USQ-148C(V)2	LEGACY CARRY-ON		●	●					AN/USQ-148C(V)2
	160	SCI NETWORKS - AFLOAT	AN/USQ-148D(V)2	NT EOL SURFACE SHIPS		●	●					AN/USQ-148D(V)2
	160	SCI NETWORKS - AFLOAT	AN/USQ-148E(V)2	NT EOL DDG 72-95	●							AN/USQ-148E(V)2
	160	SCI NETWORKS - AFLOAT	AN/USQ-148F(V)2	CARRY-ON		●	●					AN/USQ-148F(V)2
	160	SCI NETWORKS - EA	AN/USQ-148G(V)2	NA		●	●					SCI N/WS EA
	160	SCI NETWORKS - EA	AN/USQ-148G(V)2	FORCE LEVEL EA	●							AN/USQ-148G(V)2
	160	SCI NETWORKS - EA	AN/USQ-148H(V)2	GROUP LEVEL EA	●							AN/USQ-148H(V)2
	160	SCI NETWORKS - SUB	AN/USQ-148	NA				●	●			SCI NETWORKS - SUBMARINE
	160	SCI NETWORKS - SUB	AN/USQ-148(V)3	LEGACY SSN688CL				●				AN/USQ-148(V)3
	160	SCI NETWORKS - SUB	AN/USQ-148A(V)3	LEGACY SSBN				●				AN/USQ-148A(V)3
	160	SCI NETWORKS - SUB	AN/USQ-148B(V)3	NT EOL REPLACEMENT SSN688CL				●				AN/USQ-I48B(V)3

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
	160	SCI NETWORKS - SUB	AN/USQ-148(V)5	LEGACY SCI/TS BCA					●			AN/USQ-I48B(V)5										
	160	SCI NETWORKS - SUB	AN/USQ-148A(V)5	NT EOL REPLACEMENT SCI BCA					●					AN/USQ-I48B(V)3								
	160	SCI NETWORKS - SHORE	AN/USQ-148	NA								AN/USQ-148(V)1			JSQ-148A(V)1							
	160	SCI NETWORKS - SHORE	AN/USQ-148(V)1	LEGACY NOC								AN/USQ-148(V)1										
	160	SCI NETWORKS - SHORE	AN/USQ-148A(V)1	NOC UPGRADE											I/USQ-148A(V)1							
	160	SUBLAN	AN/USQ-177(V)1	UNCLAS and SECRET Submarine LAN on SSN 688s					●			SUBLAN on SSN 688										
	160	SUBLAN	AN/USQ-177(V)5	TIDS-2 to SUBLAN 1 Upgrade on SSN 688s					●													
	160	SUBLAN	AN/USQ-177(V)1	UNCLAS and SECRET Submarine LAN on SSN 688s					●			AN/USQ-177(V)1										
	160	SUBLAN	AN/USQ-177A(V)1	TOP SECRET Enclave NT EOL Upgrade on SSN 688s					●				AN/USQ-177A(V)1										
	160	SUBLAN	AN/USQ-177B(V)1	Grade A Mission-Critical Upgrade on SSN 688s					● (yellow)			Grade A	AN/USQ-177B(V)1										
	160	SUBLAN	AN/USQ-177C(V)1	SubLAN MLS, includes CENTRIXS, SCI and TS network enclaves on SSN 688					● (red)			MLS	AN/USQ-177C(V)1										
	160 770	SUBLAN	AN/USQ-177D(V)1	SubLAN EA with Propulsion Plan Monitoring System (PPMS) on SSN 688s					● (red)				AN/USQ-177D(V)1										
	160	SUBLAN	AN/USQ-177(V)2	UNCLAS and SECRET Submarine LAN on SSN 21s					● (red)			SUBLAN on SSN-21											
	160	SUBLAN	AN/USQ-177(V)2	UNCLAS and SECRET Submarine LAN on SSN 21s					●			AN/USQ-177(V)2											
	160	SUBLAN	AN/USQ-177A(V)2	TOP SECRET Enclave Upgrade on SSN 21s					● (yellow)				AN/USQ-177A(V)2										
	160	SUBLAN	AN/USQ-177B(V)2	Grade A Mission-Critical Upgrade on SSN 21s					● (red)				Grade A	AN/USQ-177B(V)2									
	160	SUBLAN	AN/USQ-177C(V)2	SubLAN MLS, includes CENTRIXS, SCI and TS network enclaves on SSN 21					● (red)				MLS	AN/USQ-177C(V)2									
	160 770	SUBLAN	AN/USQ-177D(V)2	Propulsion Plan Monitoring System (PPMS) on SSN 21s					● (red)					AN/USQ-177D(V)2									
	160	SUBLAN	AN/USQ-177(V)3	UNCLAS and SECRET Submarine LAN on SSBNs					● (red)			SUBLAN on SSBN											
	160	SUBLAN	AN/USQ-177(V)3	UNCLAS and SECRET Submarine LAN on SSBNs					●			AN/USQ-177(V)3											
	160	SUBLAN	AN/USQ-177A(V)3	TOP SECRET Enclave Upgrade on SSBNs					● (yellow)				AN/USQ-177A(V)3										
	160	SUBLAN	AN/USQ-177B(V)3	Grade A Mission-Critical Upgrade on SSBNs					● (red)							Grade A	.N/USQ-177B(V)3					
	160	SUBLAN	AN/USQ-177C(V)3	SubLAN MLS, includes CENTRIXS, SCI and TS network enclaves on SSBNs					● (red)							MLS	N/USQ-177C(V)3					

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site) Force	Group	Unit	Sub	Shore	Air	Aux	Timeline (FY07–FY17+)
	160 770	SUBLAN	AN/USQ-177D(V)3	Propulsion Plan Monitoring System (PPMS) on SSBNs				●				AN/USQ-177D(V)3
	160	SUBLAN	AN/USQ-177(V)4	UNCLAS and SECRET Submarine LAN on SSGNs				●				SUBLAN on SSGN
	160	SUBLAN	AN/USQ-177A(V)4	TOP SECRET Enclave Upgrade on SSGNs				●				AN/USQ-177A(V)4
	160	SUBLAN	AN/USQ-177B(V)4	SubLAN EA & SubLAN MLS (merged); includes transition to Grade A; includes PPMS. (SSGN only)				●				EA & PPMS on SSGN / AN/USQ-177B(V)4
	160	SUBLAN	AN/USQ-177B(V)7	Submarine LAN on SSN 774s; equivalent to SubLAN Grade A				●				AN/USQ-177C(V)5 (SSN 774)
	160	CENTRIXS	AN/USQ-185	COALITION INFORMATION SHARING LAN	●	●	●		●			CENTRIXS
	160	CENTRIXS-M INC 0	AN/USQ-185(V)1	COALITION INFORMATION SHARING LAN		●						Blk 0 - Unit (Legacy)
	160	CENTRIXS-M INC 0	AN/USQ-185(V)1	COALITION INFORMATION SHARING LAN				●				Blk 0 - Unit (Legacy)
	160	CENTRIXS-M INC 0	AN/USQ-185A(V)1	COALITION INFORMATION SHARING LAN	●				●			Blk 1 - Force (Legacy)
	160	CENTRIXS-M INC 0	AN/USQ-185(V)2	COALITION INFORMATION SHARING LAN	●							Blk II Force (Legacy)
	160	CENTRIXS-M Inc I--Force	AN/USQ-185A(V)2	COALITION INFORMATION SHARING LAN	●							Inc I--Force
	160	CENTRIXS-M PC	AN/USQ-185B(V)1	COALITION INFORMATION SHARING LAN					●			AN/USQ-185(V)1
	160	CENTRIXS-M Inc I--Unit	AN/USQ-185B(V)2	COALITION INFORMATION SHARING LAN		●						Inc I - Unit
	160	CENTRIXS-M Blk 0 - Submarine	AN/USQ 185(V)3	COALITION INFORMATION SHARING LAN				●				Block 0 - Submarine
	160 750	TacMobile - CENTRIXS-M (FAK)	AN/USQ-185(V)A	Secure Mobile Coalition Communications System					●			FAK
	160	NCE	NCE	Non-Classified collaboration supporting L/E, Intel, and DoD					●			NCE / Fly Away Kits
Command & Control	750	TacMobile Inc 2.0							●			TacMobile Inc 2.0
Defend the GIG	160	CND		COMPUTER NETWORK DEFENSE	●	●	●	●	●			CND / Inc 1 / Inc 2

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site) Force	Group	Unit	Sub	Shore	Air	Aux	Timeline (FY07–FY17+)
C2 Networks Ashore	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219(V)1 FLTNOC (PR U)	PRNOC NIPRNET					●			AN/FSQ-219(V)1
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219A(V)1 FLTNOC (PR U)	PRNOC NIPRNET					●			AN/FSQ-219A(V)1
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219B(V)1 FLTNOC (PR U)	PRNOC NIPRNET					○			AN/FSQ-219B(V)1
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219C(V)1 FLTNOC (PR U)	PRNOC NIPRNET					○			AN/FSQ-219C(V)1 FLTNOC (PR
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219D(V)1 FLTNOC (PR U)	PRNOC NIPRNET					○			AN/FSQ-219D(V)1
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219(V)2 FLTNOC (PR S)	PRNOC SIPRNET					●			AN/FSQ-219(V)2
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219A(V)2 FLTNOC (PR S)	PRNOC SIPRNET					●			AN/FSQ-219A(V)2
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219B(V)2 FLTNOC (PR S)	PRNOC SIPRNET					○			AN/FSQ-219B(V)2
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219C(V)2 FLTNOC (PR S)	PRNOC SIPRNET					○			AN/FSQ-219C(V)2
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219D(V)2 FLTNOC (PR S)	PRNOC SIPRNET					○			AN/FSQ-219D(V)2
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219(V)8 FLTNOC (UAR U)	UARNOC NIPRNET					●			AN/FSQ-219(V)8
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219A(V)8 FLTNOC (UAR U)	UARNOC NIPRNET					○			AN/FSQ-219A(V)8
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219B(V)8 FLTNOC (UAR U)	UARNOC NIPRNET					○			AN/FSQ-219B(V)8
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219C(V)8 FLTNOC (UAR U)	UARNOC NIPRNET					○			AN/FSQ-219C(V)8
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219D(V)8 FLTNOC (UAR U)	UARNOC NIPRNET					○			AN/FSQ-219D(V)8
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219(V)3 FLTNOC (UAR S)	UARNOC SIPRNET					●			AN/FSQ-219(V)3
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219A(V)3 FLTNOC (UAR S)	UARNOC SIPRNET					●			AN/FSQ-219A(V)3
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219B(V)3 FLTNOC (UAR S)	UARNOC SIPRNET					○			AN/FSQ-219B(V)3
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219C(V)3 FLTNOC (UAR S)	UARNOC SIPRNET					○			AN/FSQ-219C(V)3
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219D(V)3 FLTNOC (UAR S)	UARNOC SIPRNET					○			AN/FSQ-219D(V)3
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219(V)4 FLTNOC (IOR U)	IORNOC NIPRNET					○			AN/FSQ-219(V)4
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219B(V)4 FLTNOC (IOR U)	IORNOC NIPRNET					○			AN/FSQ-219B(V)4
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219C(V)4 FLTNOC (IOR U)	IORNOC NIPRNET					○			AN/FSQ-219C(V)4

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site) Force	Group	Unit	Sub	Shore	Air	Aux	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219D(V)4 FLTNOC (IOR U)	IORNOC NIPRNET					●											AN/FSQ-219D(V)4 →		
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219(V)5 FLTNOC (IOR S)	IORNOC SIPRNET					●			AN/FSQ-219(V)5										
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219B(V)5 FLTNOC (IOR S)	IORNOC SIPRNET					●				AN/FSQ-219B(V)5									
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219C(V)5 FLTNOC (IOR S)	IORNOC SIPRNET					●								AN/FSQ-219C(V)5					
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219D(V)5 FLTNOC (IOR S)	IORNOC SIPRNET					●											AN/FSQ-219D(V)5 →		
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219(V)6 FLTNOC (ECR U)	ECRNOC NIPRNET					●			AN/FSQ-219(V)6										
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219B(V)6 FLTNOC (ECR U)	ECRNOC NIPRNET					●				AN/FSQ-219B(V)6									
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219C(V)6 FLTNOC (ECR U)	ECRNOC NIPRNET					●								AN/FSQ-219C(V)6					
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219D(V)6 FLTNOC (ECR U)	ECRNOC NIPRNET					●										AN/FSQ-219D(V)6 →			
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219(V)7 FLTNOC (ECR S)	ECRNOC SIPRNET					●			AN/FSQ-219(V)7										
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219B(V)7 FLTNOC (ECR S)	ECRNOC SIPRNET					●				AN/FSQ-219B(V)7									
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219C(V)7 FLTNOC (ECR S)	ECRNOC SIPRNET					●								AN/FSQ-219C(V)7					
	790	IT-21 Fleet Network Operations Center (FLTNOC)	AN/FSQ-219D(V)7 FLTNOC (ECR S)	ECRNOC SIPRNET					●											AN/FSQ-219D(V)7 →		
	790	IT-21 Fleet Network Operations Center (FLTNOC)	NTWAN	PE Router					●			NTWAN →										

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
Shore Telephony	790	Telephony	Telephony	Telephony (Overall)					🔴				Telephony ➡									
	790	Telephony	Telephony Switch Moderization	NNWC claimancy switch modernization					🔴				Telephony Switch Modernization ➡								
	790	Telephony	Telephony RTOC	RTOC implementation					🟢					Telephony RTOC							
	790	Telephony	Telephony Enterprise Moderizaton	EnterpriseTMS implementation					🔴								Telephony Enterprise TMS Implementation ➡			

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
Shore Network Management	790	NMS/ENMS	AN/FSQ-221(V)X NMS/ENMS NMS/ENMS						◐			Inc IIA Inc IIB				Inc III						
	790	NMS	AN/FSQ-221(V)1-3 NMS Inc I Inc I						●			NMS Inc I										
	790	ENMS	AN/FSQ-221(V)1-3 ENMS Inc Inc IIA IIA						●			ENMS Inc II.										
	790	ENMS	AN/FSQ-221(V)1-3 ENMS Inc Inc IIB IIB						●				ENMS Inc IIB									
	790	ENMS	AN/FSQ-221(V)X ENMS Inc Inc III III						◐							ENMS Inc III						

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
Networks Afloat Management	160	CANES Inc 1	CANES (V)X	CONSOLIDATED AFLOAT NETWOKS ENTERPRISE SERVICES	●	●	●	●	●			CANES Inc 1										
	160	CANES Systems Management	CANES	Systems Management	●		●	●	●							CANES Systems Management						
	160	INM Pro	INM Pro	Network Management	●		●	●				INM Pro										
	160	NMS	NMS 1.X, 2.X	Network Management (WUG is the core component of NMS)	●	●	●	●				WUG (ISNS)	WUG v11	WUG v14								
	160	Vanilla WUG	Vanilla WUG	Network Management (COMPOSE 2.0.3 and above) (non-tailored)	●	●	●					VANILLA-WUG										
	160	ISNS NMS	ISNS NMS 1.X	Network Management (ISNS Inc 1) (Tailored WUG V11)	●	●	●						WUG v11									
	160	ISNS NMS	ISNS NMS 2.X	Network Management (ISNS Inc 1) (Tailored WUG V14)	●	●	●							WUG v14								
	160	SCI NMS	SCI NMS 2.X	Network Management (SCI G(V)2 & H(V)2) (Tailored WUG V14)	●	●	●							WUG v14								
	160	SUBLAN NMS	SUBLAN NMS 1.X	Network Management (Configured for COMPOSE 3.0.1) (Tailored WUG V11)				●					WUG v11									
	160	SUBLAN NMS	SUBLAN NMS 2.X	Network Management (Tailored WUG V14)				●						WUG v14								

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
Comms Circuit Management	790	HF Modernization to USAF		HF Modernization					●			HF Modernization to USAF										
	790	ANCC/ATC	ANCC/ATC	ANCC/ATC					○			ANCC/ATC										
	790	EMS	EMS	EMS					●			EMS										

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
Hosting Environment	160	CANES Inc 1	CANES (V)X	CONSOLIDATED AFLOAT NETWOKS ENTERPRISE SERVICES	●	●	●	●	●			CANES Inc 1										
	160	CANES Operating System Environment	CANES OSE	OPERATING ENVIRONMENT	●	●	●	●	●							OPERATING ENVIRONMENT						
	160	COMPOSE	COMPOSE	COMMON PC OPERATING SYSTEM ENVIRONMENT	●	●	●	●				COMPOSE 3.0.	COMPOSE 3.5.0	COMPOSE 4.0.0								
	160	COMPOSE 2.0.3	COMPOSE 2.0.3	COMMON PC OPERATING SYSTEM ENVIRONMENT	●	●	●	●				COMPOSE 2.0.3										
	160	COMPOSE 3.0.0	COMPOSE 3.0.0	COMMON PC OPERATING SYSTEM ENVIRONMENT	●	●	●					COMPOSE 3.0.0										
	160	COMPOSE 3.0.1	COMPOSE 3.0.1	COMMON PC OPERATING SYSTEM ENVIRONMENT	●	●	●					COMPOSE 3.0.1										
	160	COMPOSE 3.5	COMPOSE 3.5	COMMON PC OPERATING SYSTEM ENVIRONMENT	●	●	●					COMPOSE 3.5.0										
	160	COMPOSE 4.0	COMPOSE 4.0	COMMON PC OPERATING SYSTEM ENVIRONMENT	●	●	●								COMPOSE 4.0.0							

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							Timeline (FY07–FY17+)
					Force	Group	Unit	Sub	Shore	Air	Aux	
Positioning Navigation and Timing	170	WRN-6	AN/WRN-6	Stand alone GPS receiver with limited point-to-point positioning, velocity, and timing data distribution	●	●	●	●			●	NAVSTAR GPS WRN-6
	170	NAVSSI	AN/SSN-6(V)2	Shipboard Positioning, Navigation, and Timing system. Receives GPS feed from WRN-6		●						NAVSSI Block 2
	170	NAVSSI	AN/SSN-6(V)3	Shipboard integrated GPS positioning, navigation, and timing system	●	●	●		●			NAVSSI Block
	170	NAVSSI	AN/SSN-6(V)4	Shipboard Improved GPS Positioning, Navigation, and Timing system	●	●	●		●			NAVSSI Block 4
	170	GPNTS	GPNTS	Next generation GPS based Position, Navigationing, and Timing Service. SAASM capable	●	●	●	●	●			GPNTS
	170	Navy Air MGUE	Airborne Receiver	M-Code capable Airborne GPS receiver						●		GPS Air MGUE
	170	NAVWAR Air Antennas	GAS-1, ADAP	GPS receiver for naval avionics platforms							●	GPS Air GAS-1/ADAP Antennas

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
Core Services (Tactical Edge)	160	CANES Inc 1	CANES(V)	CONSOLIDATED AFLOAT NETWOKS ENTERPRISE SERVICES	●	●	●	●	●			CANES Inc 1										
	160	CANES AFLOAT CORE SERVICES	ACS(V)1.1	SAME AS CANES (FOR FIELDING)	●	●	●	●	●					ACS(V)1.1								
	160	ISNS CORE SERVICES	CS(V)		●	●	●					CS(V)1.0	CS(V)1.1									
	160	ISNS CORE SERVICES 1.0	CS(V)1.0	SAME AS ISNS INC I (FOR FIELDING)	●	●	●					CS(V)1.0										
	160	ISNS AFLOAT CORE SERVICES 1.1	ACS(V)1.1	SAME AS ISNS INC I (FOR FIELDING)	●	●	●							ACS(V)1.1								

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
Logistics	160	CANES	CANES	CONSOLIDATED AFLOAT NETWOKS ENTERPRISE SERVICES	●	●	●	●	●			CANES Inc 1 →										
	150	NTCSS	NTCSS	Admin/Logistics Command Support System	●	●	●	●	●	●	●	NTCSS →										
	150	Ported SNAP II	AN/UYK-158B(V)2	Admin/Logistics Command Support System			●	●			●	Ported SNAP II										
	150	NTCSS "CY04"	AN/UYK-163(V)1	Admin/Logistics Command Support System	●	●	●	●	●			NTCSS Optimized CY04										
	150	NTCSS "Charger"	AN/UYK-164(V)2	Admin/Logistics Command Support System		●	●	●				NTCSS Optimized "Charger"										
	150	NTCSS "Viking"	AN/UYK-164(V)3	Admin/Logistics Command Support System	●	●	●	●	●			NTCSS Optimized "Viking" →										
	150	NTCSS "Patriot"	AN/UYK-164(V)4	Admin/Logistics Command Support System	●	●	●	●	●								NTCSS Optimized "Patriot" →					
	150	NTCSS TBD (Maint Release)	AN/UYK-164(V)5	Admin/Logistics Command Support System	●	●	●	●	●							NTCSS Optimized TBD →						
	150	OOMA 5.X	OMA	Organizational Maintenance System	●				●	●		OOMA →										
	150	OOMA 5.10	AN/UYK-158(V)2	Organizational Maintenance System	●							OOMA 5.10 →										
	150	OOMA 5.11		Organizational Maintenance System	●							OOMA 5.11 →										
	150	OOMA 5.20		Organizational Maintenance System	●							OOMA 5.20 →										
	150	OOMA 5.30		Organizational Maintenance System	●				●	●		OOMA 5.30 →										

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site) Force	Group	Unit	Sub	Shore	Air	Aux	Timeline
Organizational Messaging	790	Legacy Messaging Phase-Out	Legacy Messaging Phase-Out	Legacy Messaging					●			TSw-Legacy Msg. Phase-Out
	790	DMS Classic	N/A	Defense Message System					●			DMS Client/Server
	790	TMG	N/A	Tactical Messaging Gateway					●			TMG
	790	NREMS	N/A	Shore Web-Based Org Messaging					●			NREMS
	790	C2 Official Info Exchange	N/A	C2 OIE Ashore and Afloat Nodes	●	●	●		●			C2 OIE Ashore + Afloat
	790	Nova Workstation	Nova Workstation	Sustainable replacement for PCMT					●			Nova W/S
	790	MMS	N/A	Legacy Shore Communication					●			MMS
	790	PCMT	N/A	Legacy Shore Communication					●			PCMT
	790	CUDIXS	N/A	Afloat / Ashore Communication					●			CUDIXS
	790	FSM	N/A	Afloat IP Communication	●	●	●		●			FSM
	790	Nova Genser	N/A	Legacy Shore Communication					●			Nova Genser
	790	Nova EAM	N/A	Legacy Shore Communication					●			Nova EAM
	790	MCS	N/A	Legacy Shore Communication					●			MCS
	790	FMX	N/A	Legacy Shore Communication					●			FMX
	790	NAVMACS	NAVMACS	Afloat Genser Communication	●	●	●	●	●			NAVMACS
	790	NAVMACS	NAVMACS 7(V)2	Afloat Genser Communication				●				NAVMACS 7(V2)
	790	NAVMACS	NAVMACS II 7(A)/(B)	Afloat Genser Communication	●	●	●	●				NAVMACS II 7A/7B
	790	NAVMACS	NAVMACS PC	Afloat Genser Communication	●	●	●					NAVMACS II 7B(PC)
	790	NAVMACS	NAVMACS II/SMS 26(V) 1-6	Afloat Genser Communication	●	●	●		●			NAVMACS 26(V) 1-6
	790	Sub SMS	NAVMACS II/SMS 28(V) 1-2	Submarine Single Messaging Solution				●				Sub SMS 28(V)1-2
	770	ISDS	ISDS	Information Screening and Delivery Subsystem				●	●			ISDS 4.0 / ISDS 4.2 Client / ISDS 5.0
	770	ISDS	ISDS 4.0 / 4.1 Client	Information Screening and Delivery Subsystem				●	●			ISDS 4.0 / 4.1 CLIENT
	770	ISDS	ISDS 4.2 Client	Information Screening and Delivery Subsystem				●	●			ISDS 4.2 Client

Timeline columns: FY07, FY08, FY09, FY10, FY11, FY12, FY13, FY14, FY15, FY16, FY17+

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)						FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
	770	ISDS	ISDS 5.0 Client & Server	Information Screening and Delivery Subsystem				●	●				ISDS 5.0 CLIENT SERVER									
	770	ISDS	ISDS 4.1.X Server	Information Screening and Delivery Subsystem					○			ISDS 4.1.X SERVER										
Strategic Messaging	770	CSRR	CSRR	Common Submarine Radio Room				●			CSRR	Inc 1 ver 1		Inc 1 ver 2			Inc 1 ver 3			Inc 1 ver 4		

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							Timeline (FY07–FY17+)
					Force	Group	Unit	Sub	Shore	Air	Aux	
Org. Messaging	770	ISDS	ISDS	Information Screening and Delivery Subsystem				● (yellow)	● (yellow)			ISDS 4.0 → ISDS 4.2 Client → ISDS 5.0
Strategic Messaging	770	NC3 HS	NC3 HS (shore only)	Nuclear Command and Control Hybrid Solution					●			NC3 HYBRID SOLUTION
	770	NC3 LTS	NC3 LTS (shore only)	Nuclear Command and Control Long Term Solution					● (red)			NC3 LTS
	770	Shore receivers for AN/BST-1 buoy (SSBNs)	CMRS (shore only)	Clarinet Merlin Receive System. HF circuit used for emergency reportback.					● (blue)			CLARINET MERLIIN
	160	KG 333	KG 333	USAF Led				●	●			KG 333
	160	KG 3X	KG 334						●			KG334 / KOV17 REPROG
	160	KG 3X	KOV 17 (sub)	Also installed on Sub Tenders				●				KOV 17
	160	KG 3X	KG 34 (shore)						●			KG 34
	770	LBUCS	AN/URT-(V)(X)	Low Band Universal Communications System , Transmit only					●			LBUCS Transmit (Shore)
	770	FSBS	FSBS	Fixed Submarine Broadcast System (FSBS)					●			FSBS Heavy Metal antennas & Transmitter sites
	770	SWAN (COOP)	SWAN (shore only)	Submarine Operating Authorities Wide Area Network					● (blue)			SWAN with COOP
	770 / 392	Towed Buoy Antenna	AN/BRR-6B	Towed buoy; PMW 770 program to fix obsolescense to 392 program				●				Towed Buoy Antenna
	770	Floating Wire Antenna (FWA)	OE-315	Submarine Antenna Modernization System				●				OE-315 FWA → OE-315 with T/R switch for HF Transmit
	770	OE-592 Increment 1	OE-592	OE-538 version that is installed on on SSBNs.				●				OE-592 Increment 1
	770	CSRR	CSRR	Common Submarine Radio Room				●				CSRR, Inc 1 ver 1, Inc 1 ver 2, Inc 1 ver 3, Inc 1 ver 4
	770	SLVR	AN/WRR-12	Submarine VLF/LF VME Receiver				●	●			SLVR
	770	LBUCS	AN/WRR-(V)(X)	Low Band Universal Communications System , Receive capability				● (blue)	●			LBUCS Receive

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							Timeline
					Force	Group	Unit	Sub	Shore	Air	Aux	FY07–FY17+
Networks Afloat	160	CANES Inc 1	CANES (V)X	CONSOLIDATED AFLOAT NETWOKS ENTERPRISE SERVICES	●	●	●	●	●		●	CANES Inc 1
Intelligence, Surveillance, and Reconnaissance	120	JSIPS-N	AN/SYQ-23 A/B	Shipboard Imagery Exploitation & Processing	●				●			JSIPS
	120	JSLEP	AN/SYQ-23 C/D	JSIPS Service Life Extension Program	●				●			JSLEP
	120	DCGS-N	AN/SSQ-128	IMINT, GEOINT, SIGINT, & Targeting Support (with I3)	●				●			DCGS-N / Inc 1 Block 1 / Inc 1 Blk 2 / Inc 2
	120	DCGS-N Increment 1 Block 1	AN/SSQ-128(V)A	IMINT, GEOINT, SIGINT, & Targeting Support (with I3)	●				●			Inc 1 Block 1
	120	DCGS-N Increment 1 Block 2	AN/SSQ-128(V)B	IMINT, GEOINT, SIGINT, & Targeting Support (with I3)	●				●			Inc 1 Block 2
	120	DCGS-N Increment 2	AN/SSQ-128(V)C	IMINT, GEOINT, SIGINT, & Targeting Support (with I3)	●				●			Inc 2
	120	AIS Increment 1 Phase 1A	AN/URN-31 (V)1	Ships Position, Movement, & Identifier	●	●	●					AIS Inc 1, Ph 1A
	120	AIS Increment 1 Phase 2B	AN/URN-31 (V)A	Ships Position, Movement, & Identifier	●				●			AIS Inc 1, Ph 2B
	120	AIS Increment 2	AN/URN-31 (V)2	Ships Position, Movement, & Identifier	●	●	●	●	●			AIS Increment 2
	120	CTT	AN/USQ-143	Tactical Situation Awareness & Targeting	●	●						CTT
	120	JTT	AN/USQ-151	Tactical Situation Awareness & Targeting	●	●						JTT
	120	NEIBS		Tactical Situation Awareness & Targeting	●							NEIBS
Command & Control	750	TacMobile Inc 3.0							●			TacMobile Inc 3.0

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
Information Operations	120	SSEE Inc E	AN/SSQ-137(V)	Shipboard Tactical SIGINT & IO	●	●			●			SSEE Inc E										
	120	SSEE Inc F	AN/SSQ-130	Shipboard Tactical SIGINT & IO	●	●			●			SSEE Inc F										
	120	SSEE Inc G	AN/SSQ-X	Shipboard Tactical SIGINT & IO	●	●			●										SSEE Inc G			
	120	CCOP	CCOP	SIGINT Precision Geo-location	●	●	●		●	●		CCOP (SPCS)										
	120	DRT	DRT	SIGINT Multi-protocol Receiver	●	●	●	●	●	●		DRT										
	120	HITS	HITS	Precision Geolocation Targeting System	●	●	●	●	●	●		HITS										
	120	CCOP Legacy Systems	CCOP Legacy Systems	SIGINT Precision Geo-location	●	●	●		●	●		CCOP Legacy Systems										
	120	COBLU	AN/SSQ-124(V)1-8	Tactical SIGINT Threat Recognition	●	●			●			COBLU										
	120	CDF	AN/SRS-1(V)1-8	SIGINT & Direction Finding	●	●			●			CDF										

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site) Force	Group	Unit	Sub	Shore	Air	Aux	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
Networks Afloat	160	CANES Inc 1	CANES (V)X	CONSOLIDATED AFLOAT NETWOKS ENTERPRISE SERVICES	●	●	●	●	●		●	CANES Inc 1										
Environmental	170	ESRP/SMQ-11	AN/SMQ-11	Ship Environmental Satellite Receiver Processor	●							SMQ-11										
	170	ESRP/FMQ-17	AN/FMQ-17	Shore Environmental Satellite Receiver Processor					●			FMQ-17										
	120	LBS-UUV (LBS-G)	LBS-G	Ocean sensing using gliders							●			LBS-G								
	120	LBS-UUV (LBS-AUV)	LBS-AUV	Ocean sensing using AUVs							●				LBS-AUV							
	120	METMF(R)	AN/TMQ-44A(V)1	Mobile Weather Support Facility for USMC Expeditionary Forces					●			METMF(R)										
	120	METMF(R) NEXGEN	METMF(R) NEXGEN	Next Generation Mobile Weather Support Facility for USMC Expeditionary Forces					●			METMF(R) NEXGEN										
	120	NITES IV	AN/UMK-4A(V)1	PC-based METOC applications and decision aids	●				●			NITES										
	120	NITES-Next	NITES-Next	Tactical Net-centric METOC Capabilities	●	●			●				NITES-NEXT									
	120	METOC FUTURE	AN/UMK-4	FMC (Future METOC Capability) Project develops, tests and installs METOC modeling and data					●	●		METOC FUTURE										
	120	PTA	PTA	PTA (Precise Time and Astrometry) Project modernizes US Master Clock and Earth Orientation Parameters					●			PTA										
	120	TOC/USW	TOC/USW	TOC/USW (Tactical Oceanography Capabilities/Undersea Warfare) Project develops oceanographic	●	●	●	●	●	●		TOC/USW										
	120	OBCI	OBCI	OBCI (Ocean Bottom Characterization Initiative) Project develops USW sensing and ocean bottom	●	●	●	●				OBCI										
	120	CORIOLIS (Windsat)	CORIOLIS (Windsat)	Satellite-based sensing capability that measures ocean surface wind speed and direction					●	●		CORIOLIS										
	120	GFO-2	GFO	GFO-2 (Geodetic Follow-on Satellite) measures dynamic surface ocean topography					●	●					GFO-2							
	120	Navy DMSP/SSMIS	DMSP	Navy Defense Meteorological Satellite Program/System Sensor Microwave Imager-Sounder (Navy DMSP/SSMIS)					●	●		Navy DMSP/SSMIS										
	120	Navy POPS and OIS	NOAA	Navy POESS Readiness Project acquires, integrates and tests hardware and sensor data processing					●	●		NPOESS										
	120	ASOS	ASOS	Shore-based surface automated weather observation system					●			ASOS										
	120	MRS	AN/UMQ-12A	Ship/shore-based upper air observation system	●				●			MRS										
	120	NEXRAD OPUP	NEXRAD	Aviation Safety System: Next Generation Radar (Principal User Processor)					●			NEXRAD OPUP										
	120	SWR	AN/FPS-131	Shore-based surface weather radar system					●			SWR										

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)						FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux										
Maritime Domain Awareness	120	MDA SP1P	MDA SP1P	Maritime Domain Awareness Spiral 1 Prototype					●			MDA SP1P									
	120	MFAS	MDA FAS	MDA Fusion and Analysis Services					●						MFAS						

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site) Force	Group	Unit	Sub	Shore	Air	Aux	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
Narrowband	170	Navy M/FS JTRS	Navy M/FS JTRS	Software reprogrammable multi-band/multi-mode radio	●	●	●	●	●			JTRS							JTRS Inc 1			
Broadcast	170	GBS	AN/USR-10	Military Ka-band Receive-only Broadcast	●	●	●	●	●			GBS RBM										
	170	TV-DTS	OE-556	Commercial C-band Receive-only TV	●		●					TV-DTS										
Network WAN Gateway	160	ADNS Inc III	AN/USQ-144K(V)	ADNS OR TACTICAL WAN (INC III Overview)	●	●	●	●	●	●		ADNS Inc III										
Networks Afloat	160	CENTRIXS	AN/USQ-185	COALITION INFORMATION SHARING LAN	●	●	●					○ CENTRIXS										
	160 750	TacMobile - CENTRIXS-M (FAK)	AN/USQ-185(V)A	Secure Mobile Coalition Communications System				●				FAK ○										
	150	GCCS-M 3.X	AN/USQ-119(V)1	Maritime Command and Control System	●	●	●	●	●			GCCS-M 3.X										
	150	GCCS-M 4.0.X	Various (roll-up)	Roll up of the 4.0.x baselines for Maritime Command and Control System - Martime	●	●	●	●	●			GCCS-M 4.0.X										
	150	GCCS-M 4.0.X	AN/USQ-172(V)2	Global Command and Control System - Maritime Afloat variant	●	●	●	●	●			AN/USQ-172(V)2										
	150	GCCS-M 4.0.X	AN/USQ-184(V)	Global Command and Control System - Maritime Ashore variant					●			AN/USQ-184(V)										
	150	GCCS-M 4.0.X	AN/USQ-187(V)	Global Command and Control System - Maritime Training variant					●			AN/USQ-187(V)										
	150	GCCS-M 4.1 Force Level	TBD	Global Command and Control System - Maritime Force Level Afloat variant	●							GCCS-M 4.1 FL										
	150	GCCS-M 4.1 Group/ Unit Level	TBD	Global Command and Control System - Maritime materiel solution for Group and Unit level		●	●	●				GCCS-M 4.1 GL / UL										
	150	New POR	TBD	Proposed Maritime materiel solution for Group and Unit level and Force level interfaces	●	●	●	●				Projected Navy C2 New Start										
	150 (JPEO C2C)	NECC	TBD	Net Enabled Command Capability Inc 1	●			●				NECC						RDTE shortfall for development				
	160	CANES Inc 1	CANES (V)X	CONSOLIDATED AFLOAT NETWOKS ENTERPRISE SERVICES	●	●	●	●	●		●	CANES Inc 1										
	150 (JPEO C2C)	GCCS-J	AN/USQ-187(V)	Global Command and Control System	●			●				GCCS-J										
	750	TBMCS	TBMCS	Maritime Command and Control System	●							TBMCS										
	160	CANES	CANES	CONSOLIDATED AFLOAT NETWOKS ENTERPRISE SERVICES	●	●	●	●	●			CANES Inc 1							CANES Inc 2			
	150	GCCS-M 4.0.X	AN/USQ-172(V)1 AN/USQ-184(V) Shore AN/USQ-187(V)	Maritime Command and Control System	●	●	●	●	●			GCCS-M 4.0.X										
	150	GCCS-M 4.1 Group/ Unit Level		Maritime Command and Control System		●	●					GCCS-M 4.1 GL / UL										
	150 (JPEO C2C)	NECC		Net Enabled Command Capability	●							NECC										
	750	TacMobile Inc 1.0						●				TacMobile Inc 1.0										

Enclosure (1)

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
Command and Control	750	TacMobile Inc 1.0	TacMobile Inc 1.0 (V) MTOC	MTOC					●													
	750	TacMobile Inc 1.0	TacMobile Inc 1.0 (V) TOC	TOC					●													
	750	TacMobile Inc 1.0	TacMobile Inc 1.0 (V) JMAST	JMAST					●													
	750	TacMobile Inc 2.0							●													
	750	TacMobile Inc 2.0	TacMobile Inc 2.0 (V) MTOC	MTOC					●													
	750	TacMobile Inc 2.0	TacMobile Inc 2.0 (V) TOC	TOC					●													
	750	TacMobile HF-IP	TacMobile HF-IP	P2P HF-IP System					●													
	750	TacMobile-SHF Terminal Integration	TacMobile-SHF Terminal	SATCOM Terminal					●													
	750	TacMobile TCDL	TacMobile TCDL	Mobile ISR Ground System					●													
	750	TacMobile ROVER III	TacMobile ROVER III	Mobile Mini-ISR Ground System					●													
	PMA 264	ASPECT	ASPECT	Environmental Mission Planning Tool					●													
	PMA 281	JMPS	JMPS	Mission Planning Tool					●													
	750	TacMobile Tech Refresh							○													
	750	TacMobile Tech Refresh	TacMobile Tech Refresh (V) MTOC	MTOC					○													
	750	TacMobile Tech Refresh	TacMobile Tech Refresh (V) TOC	TOC					○													
	750	TacMobile Inc 2.1							○													
	750	TacMobile Inc 2.1	TacMobile Inc 2.1 (V) MTOC	MTOC					○													
	750	TacMobile Inc 2.1	TacMobile Inc 2.1 (V) TOC	TOC					○													
	750	TacMobile Inc 2.1	TacMobile Inc 2.1 (V) JMAST	JMAST					○													
	750	TacMobile Inc 3.0							○													
	750	TacMobile Inc 3.0	TacMobile Inc 3.0 (V) MTOC	MTOC					○													
	750	TacMobile Inc 3.0	TacMobile Inc 3.0 (V) TOC	TOC					○													
	750	TacMobile Inc 3.0	TacMobile Inc 3.0 (V) JMAST	JMAST					○													

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site) Force	Group	Unit	Sub	Shore	Air	Aux	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
	750	TacMobile-Link-16 Infc Dev	TacMobile-Link-16	LOS Data Link					●				Link-16									
	750	TacMASS	TacMASS	Acoustic Mission Replay System					●			TacMASS										
	750	FTAS	AN/FXQ-3	Acoustic Mission Replay System					●			FTAS										
	750	TacMobile-SHF (Baseband) Infc Dev	TacMobile-SHF Baseband	SATCOM Baseband					◐				SHF (Baseband)									
	750	TacMobile P-8A Interface/Support	TacMobile P-8A Infc/Supp	Pre-Flight Insertion Device (PID) Loading System					◐				P-8A Interface / Suppo									
	750	TacMobile SOA Adaptors	TacMobile SOA Adaptors	Service Oriented Architecture (SOA) Enablers					●				SOA Adaptors									
	750	TacMobile BAMS UAS Interface/Support	TacMobile BAMS UAS Infc/Supp	Unmaned Persistent Maritime ISR					◐					BAMS UAS Interface / Support								
	PMS (IWS5)	USW-DSS	USW-DSS	USW C2 Tool					●					USW-DSS								
	790	MOC	MOC	MOC	◐				◐				MOC									
	790	MOC	MOC Spiral 08	Spiral 08	●				●				Sprial 08									
	790	MOC	MOC Spiral 10	Spiral 10	◐				◐					Spiral 10								

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
Assured Information Sharing	160	CANES Inc 1	CANES (V)X	CONSOLIDATED AFLOAT NETWOKS ENTERPRISE SERVICES	●	●	●	●	●			CANES Inc 1										
	160	CANES Cross Domain Solutions		SAME AS CANES (FOR FIELDING) CDS TBD for CANES	●	●	●	●	●						CANES Cross Domain Solutions						
	160	Radiant Mercury		Radiant Mercury	●	●		●	●			Radiant Mercury			RM (V) 5.0		RM (V) 5.X		RM (V) 6.0		RM (V) 6.X
	160	Radiant Mercury	RM (V) 5.0	Radiant Mercury	●	●		●	●					RM (V) 5.0							
	160	Radiant Mercury	RM (V) 5.X	Radiant Mercury	●	●		●	●							RM (V) 5.X						
	160	Radiant Mercury	RM (V) 6.0	Radiant Mercury	●	●		●	●								RM (V) 6.0				
	160	Radiant Mercury	RM (V) 6.X	Radiant Mercury	●	●		●	●										RM (V) 6.X		

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							Timeline (FY07–FY17+)
					Force	Group	Unit	Sub	Shore	Air	Aux	
Integrity Non-Repudiation	160	PKI ISEA SUPPORT	Validation	PKI CERTIFICATE VALIDATION & CAC SUPPORT	●	●	●	●	●			ActivClient 6.1 → ActivClient 6.2
	160	CAC SUPPORT	ActivClient (V)6.1	PKI CERTIFICATE VALIDATION & CAC SUPPORT	●	●	●		●			ActivClient 6.1
	160	CAC SUPPORT	ActivClient (V)6.2		●	●	●	●	●			ActivClient 6.2
	160	OCSP	OCSP	PKI CERTIFICATE VALIDATION	●	●	●		●			NCVI I
	160	ONE NET NCVI	ONE NET NCVI (V)1.0	PKI CERTIFICATE VALIDATION					●			NCVI (V)1.0
	160	ONE NET NCVI	ONE NET NCVI (V)2.0	PKI CERTIFICATE VALIDATION					●			NCVI 2.0
	160	MVA	MVA V(1.0)	MASTER VALIDATION AUTHORITY					●			MVA (V)1.0
	160	MVA	MVA V(2.0)	MASTER VALIDATION AUTHORITY					●			MVA (V)2.0
	160	Fleet NCVI	NCVI	PKI CERTIFICATE VALIDATION	●	●	●					FLEET NCVI 2.0
	160	RAPIDS	Deployable RAPIDS	AFLOAT CAC ISSUANCE AND MAINTENANCE SYSTEM	●	●	●					RAPIDS v6.5 / RAPIDS v7.X
	160	CRYPTOGRAPHIC LOG ON	n/a	CRYPTOGRAPHIC LOG ON	●	●	●		●	●	●	CRYPTOGRAPHIC LOG-ON
	160	Alt Token	Alt Token	PKI CERTIFICATE VALIDATION and ALTERNATE LOGON TOKEN SUPPORT					●			ALT TOKEN
	160	CAC	n/a	NIPR LOGON TOKEN	●	●	●		●	●	●	RAPIDS v7.X
	160	SIPRNet Token Pilot	n/a	Approved SIPRNet Token					●			SIPRNet Token

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							Timeline
					Force	Group	Unit	Sub	Shore	Air	Aux	FY07–FY17+
Networks Afloat	160	ISNS - Inc I	AN/USQ-153C(V)X	TACTICAL LAN INFRASTRUCTURE. Initial Server Consolidation	●	●	●					ISNS - Inc I
	160	ISNS - Inc I MOD I	AN/USQ-153C(V)	TACTICAL LAN INFRASTRUCTURE	●	●	●					ISNS - Inc I MOD I
Defend the GIG	160	CANES	CANES	CONSOLIDATED AFLOAT NETWOKS ENTERPRISE SERVICES	●	●	●	●	●			CANES Inc 1 / CANES Inc 2
	160	CND		COMPUTER NETWORK DEFENSE	●	●	●	●	●			CND Inc 1 / Inc 2
	160	CND INC 1 AFLOAT	AN/UYQ-96	COMPUTER NETWORK DEFENSE: INC 1 AFLOAT	●	●	●					Inc 1 Afloat
	160	CND INC 1 AFLOAT	AN/UYQ-96(V)1	CND - INTRUSION DETECTION SYSTEM	●	●						AN/UYQ-96(V)1
	160	CND INC 1 AFLOAT	AN/UYQ-96(V)6/7	CND - IA TOOLS SYSTEM	●	●	●					AN/UYQ-96(V)6/7
	160	CND INC 1 AFLOAT	ECO5/6	CND - OPERATING SYSTEM ENVIRONMENT	●	●	●					ECO5/6
	160	CND INC 2 AFLOAT	AN/UYQ-96(V)X	COMPUTER NETWORK DEFENSE: INC 2 AFLOAT - ENTERPRISE SECURITY SERVICES	●	●	●	●				Inc 2 Afloat
	160	CND INC 1 SHORE	AN/FYC-23	COMPUTER NETWORK DEFENSE: INC 1 SHORE					●			Inc 1 - SHORE
	160	CND INC 2 SHORE	AN/FYC-23(V)X	COMPUTER NETWORK DEFENSE: INC 2 SHORE -INFORMATION ASSURANCE COMMAND CONTROL					●			Inc 2 -SHORE (IA C2)

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site)							FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
					Force	Group	Unit	Sub	Shore	Air	Aux											
Confi-dentiality	160	EKMS	EKMS	ELECTRONIC KEY MANAGEMENT SYSTEM	●	●	●	●	●	●		EKMS KMI (PROJECT)										
	160	EKMS (PROJECT) LMD/KP	PHASE 4.0.3.2	ELECTRONIC KEY MANAGEMENT SYSTEM	●	●	●	●	●	●		PHASE 4.0.3.2										
	160	EKMS LMD/KP	PHASE 5.1.0.5	ELECTRONIC KEY MANAGEMENT SYSTEM	●	●	●	●	●	●		PHASE 5.1.0.5										
	160	KMI MGC/AKP	KMI MGC/AKP	NET CENTRIC KEY MANAGEMENT ARCH NSA ACAT I	●	●	●	●	●	●		KMI (PROJECT) / NSA ACAT I MGC/AKP										

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site) Force	Group	Unit	Sub	Shore	Air	Aux	Timeline (FY07–FY17+)
	160	KG 333	KG 333	USAF Led				●	●	●	●	KG 333 / 361
	160	KG 3X	KGV 61 A							●		KGV 61
	160	KG 3X	KG 33							●		KG 33
	160	KG 3X	KG 334						●			KG334/KOV17REPROG
	160	KG 3X	KOV 17 (sub)					●		●		KOV 17
	160	KG 3X	KG 34 (shore)						●			KG 34
	160	KG 45A	KG 45A			●	●		●	●		KG 45A
	160	KG 45	KG 45			●	●		●	●		KG 45
	160	WALBURN	KIV 7M (WAL)	Ship, Shore, Aircraft Sec Voice and Data	●	●	●		●	●	●	KIV 7M (WAL)
	160	WALBURN	KG-94/94A		●	●	●		●	●		KG 94/94A
	160	WALBURN	KG-194/194A		●	●	●		●		●	KG 194/194A
	160	WALBURN	KIV-19/19A		●	●	●		●		●	KG 19/19A
	160	WALBURN	KG-95-2		●	●			●			KG 95-2
	160	WALBURN	KG 81		●				●			KG 81
	160	KL 51M	KL 51M						●	●		KIV 7M (KL 51M)
	160	KL 51	KL 51						●	●		KL 51
	160	SAVILLE DATA	KIV 7M (SAV)	Ship, Shore, Aircraft Sec Data	○		○		○	○		KIV 7M (SAV)
	160	SAVILLE DATA Strategic	KG 84A/C		●	●	●		●	●	●	KG 84A/C
	160	SAVILLE DATA Strategic	KIV 7HS/HSB		●	●	●		●	●		KIV 7HS/HSB
	160	SAVILLE DATA Tactical	KG 84A/C		●	●	●		●	●	●	KG 84A/C
	160	SAVILLE DATA Tactical	KIV 7HS/HSB		●	●	●		●		●	KIV 7HS/HSB
	160	VACM		Ship, Shore, Aircraft Sec Voice - USAF led	○	○			○	○	○	VACM
	160	VACM Strategic	KY 100	VACM KY-100 FF					●	●		KY 100

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Platform (Site) Force	Group	Unit	Sub	Shore	Air	Aux	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17+
Encryption	160	VACM Strategic	KY 57	VACM KY-57 FF	●	●	●		●			KY 57										
	160	VACM Strategic	KY 58	VACM KY-58 FF	●	●	●		●	●	●	KY 58										
	160	VACM Strategic	KY 99A	VACM KY-99 FF	●				●	●		KY 99A										
	160	VACM Strategic	KYV 5	VACM KYV 5 FF	●	●	●		●	●	●	KYV 5										
	160	VACM Strategic / FI	SY 57	VACM KY-57 FF	●	●	●		●			SY 57										
	160	VACM Strategic / FI	SY 58		●	●	●		●			SY 58										
	160	VACM Strategic / FI	SYV 5	VACM KYV 5 FF	●	●	●		●	●	●	SYV 5										
	160	VACM Tactical	KY 100	VACM KY-100 FF					●	●	●	KY 100										
	160	VACM Tactical	KY 57	VACM KY-57 FF	●	●	●		●			KG 84A/C										
	160	VACM Tactical	KY 58	VACM KY-58 FF	●	●	●		●	●	●	KY 58										
	160	VACM Tactical	KY 99A	VACM KY-99 FF	●				●	●		KY 99A										
	160	VACM Tactical	KYV 5	VACM KYV 5 FF	●	●	●		●	●	●	KYV 5										
	160	VACM Tactical	SY 57	VACM KY-57 FF	●	●	●					SY 57										
	160	VACM Tactical	SYV 5	VACM KYV 5 FF	●	●	●		●	●	●	SYV 5										
	160	STE w/ECC (KSV-21 card)	STE w/ECC (KSV-21 card)		●	●	●	●	●	●		STE w/ECC (KSV 21 card)										
	160	STU	STU		●	●	●	●	●	●		STU										
	160	KOV 14	KOV 14		●	●	●	●	●			KOV 14										
	160	CSRR	CSRR Version #3 (Walburn, Saville Data/Voice, KW46)	CSRR Inc 2 (Walburn, Saville Data/Voice, KW46)				●	●			CSRR	Inc 1 ver 1	Inc 1 ver 2			Inc 1 ver 3				Inc 1 ver 4	
	160	WALBURN	KIV 7M (WAL)					●	●			KIV 7M (WAL)										
	160	WALBURN	KG-194/194A					●	●			KG 194/194A										
	160	WALBURN	KIV-19/19A					●	●			KG 19/19A										
	160	SAVILLE DATA	KIV 7M (SAV)					●	●			KIV 7M (SAV)									KIV 7M	
	160	SAVILLE DATA Strategic / Tac	KG 84A/C					●	●			KG 84A/C										

Portfolio Name	PMW	System Name	Variant Name	Descriptor	Force	Group	Unit	Sub	Shore	Air	Aux	Timeline (FY07–FY17+)
	160	SAVILLE DATA Strategic / Tac	KIV 7HS/HSB					●	●			KIV 7HS/HSB
	160	KW 46M	KIV 7M (w/ KW 46M)					●	●			KIV 7M (w/ KW 46M)
	160	KW 46	KW-46 FSBS					●	●			KW 46 FSBS
	160	SAVILLE VOICE	VACM KY-99 FF					○	○			VACM KY 99 FF
	160	SAVILLE VOICE	KY 100					●	●			KY 100
	160	SAVILLE VOICE	KY 57					●	●			KY 57
	160	SAVILLE VOICE	KY 58					●	●			KY 58
	160	SAVILLE VOICE	KY 99A					●	●			KY 99A
	160	SAVILLE VOICE	KYV 5					●	●			KYV 5
	160	KG 175D (TACLANE MICRO)	KG 175D		●	●	●	●	●	●	●	KG 175D (TACLANE MICRO)
	160	NETWORK ENCRYPTION SYSTEM	MOT NE1		●	●	●		●			MOT NE1 (NES)
	160	KG 175	KG 175		●	●	●	●	●	●		KG 175
	160	KG 235	KG 235		●	●	●		●			KG 235
	160	KG 75	KG 75		●	●	●	●	●			KG 75

Other Systems Program Roadmaps

Undersea Warfare Decision Support System (USW-DSS) (AN/UYQ-100),
is programmed for installation on DDG-51, CG, CVN, LCC, SSN, and
ocean surveillance(T-AGOS) class ships and maritime patrol
aircraft (P-3C). Shipboard Build (BLD) 2.0 has two baselines,
one hosted on the Integrated Shipboard Network System (ISNS),
and one which is adapted to legacy networks. Shipboard BLD 3.0
is hosted on the Consolidated Afloat Network and Enterprise
Services (CANES) infrastructure, and is a software application.
The USW-DSS program roadmap is illustrated in figure 3 below.
The shipboard installation schedule is coordinated with the
Aegis Capability BLD (ACB) schedule. P-3C and shore variants
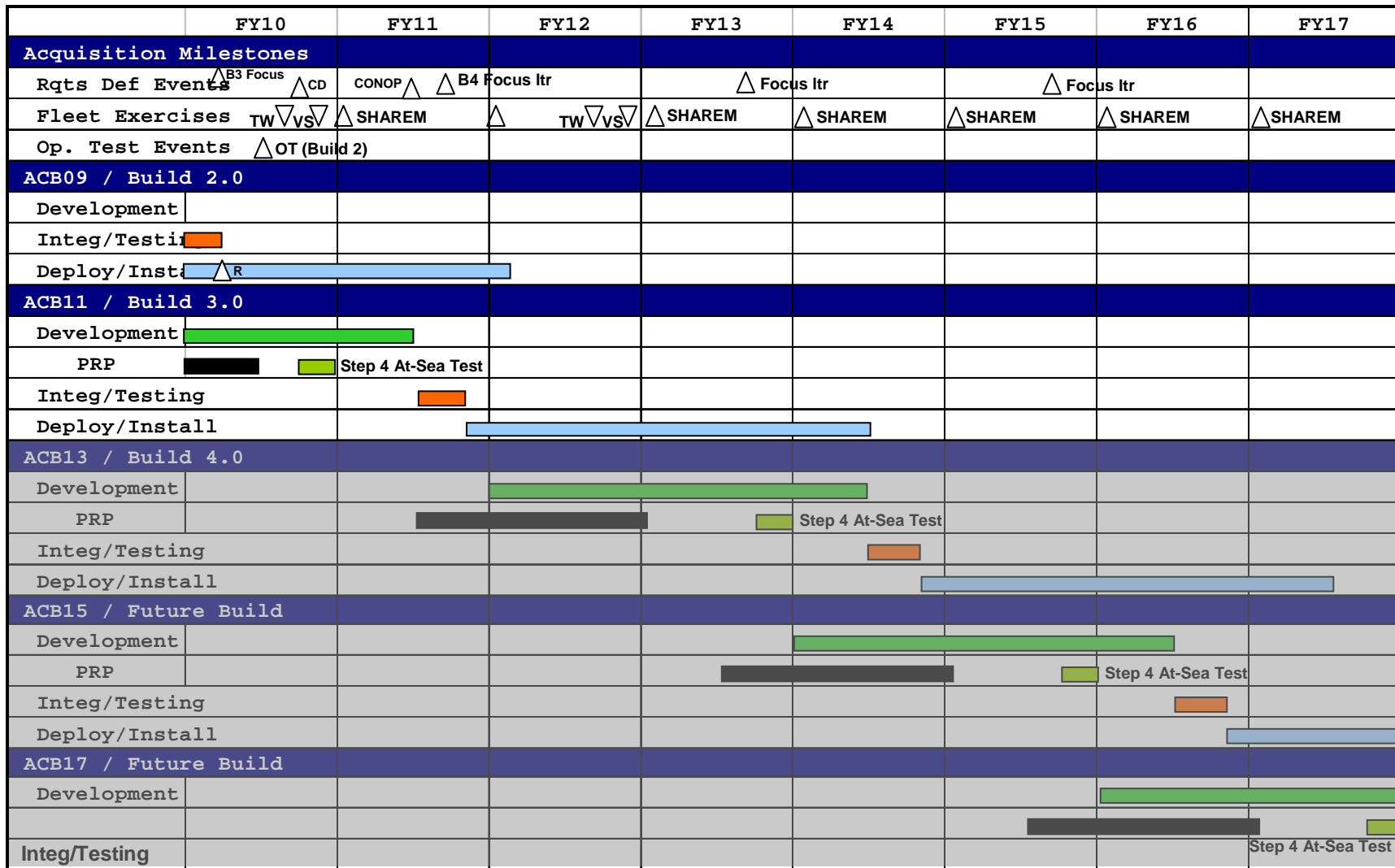are tailored to their particular network environments.

	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17
Acquisition Milestones								
Rqts Def Events	△B3 Focus △CD	CONOP △ △B4 Focus ltr		△ Focus ltr		△ Focus ltr		
Fleet Exercises	TW▽VS▽ △SHAREM		△ TW▽VS▽ △SHAREM	△SHAREM	△SHAREM	△SHAREM	△SHAREM
Op. Test Events	△OT (Build 2)							
ACB09 / Build 2.0								
Development								
Integ/Testing	▬							
Deploy/Install	△R ▬▬▬							
ACB11 / Build 3.0								
Development	▬▬▬▬							
PRP	▬▬	▬ Step 4 At-Sea Test						
Integ/Testing		▬						
Deploy/Install		▬▬▬▬▬▬						
ACB13 / Build 4.0								
Development			▬▬▬▬▬					
PRP			▬▬▬▬	▬ Step 4 At-Sea Test				
Integ/Testing					▬			
Deploy/Install					▬▬▬▬▬▬			
ACB15 / Future Build								
Development				▬▬▬▬▬				
PRP				▬▬▬▬		▬ Step 4 At-Sea Test		
Integ/Testing						▬		
Deploy/Install						▬▬▬▬		
ACB17 / Future Build								
Development						▬▬▬▬▬▬		
						▬▬▬▬		▬
Integ/Testing								Step 4 At-Sea Test

Figure 3: AN/UYQ-100 Under Sea Warfare Decision Support System Program Roadmap

PRP = production readiness plan; TTE = tactical training equipment; KPT = Key Port; SD = San Diego; HI = Hawaii; NRVA = Norfolk, Virginia; CTG = commander task group; CTF = commander task force; MOC = maritime operations center; RDT&E = research, development, test and evaluation.