



American Society of Naval Engineers Fleet Maintenance and Modernization Symposium

Panel: Readiness vs. Funding Tradeoffs Balance vs. Risk

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Not Your Father's SPAWAR

Fleet Readiness and Sustainment Focus

	2010	Today	To Be
Current Fleet Readiness	<ul style="list-style-type: none"> Multiple Fleet points of entry Inconsistent approach toward Readiness Inconsistent Training, metrics, and Root Cause Analysis 	<ul style="list-style-type: none"> SPAWAR Fleet Readiness Directorate (FRD) provides Fleet "Single Point of Entry" Tailored Training / Grooms augment Fleet Readiness Training Plan (FRTP) "Pulsed" Readiness focus on deployed units 	<ul style="list-style-type: none"> Proactive and metric driven sustainment Tailored Training / Groom Events integrated into FRTP
Sustainment of In-Service C4I Systems	<ul style="list-style-type: none"> Limited advocacy for sustainment ISEAs aligned to systems Fleet Support Teams Established 	<ul style="list-style-type: none"> FRD advocacy for sustainment to Surface Warfare Enterprise/ Naval Aviation Enterprise / OPNAV Transitioning to Capability Based-ISEAs and Fleet Support Teams 	<ul style="list-style-type: none"> Capabilities-based ISSAs and Fleet Support Teams drive sustainment Budget line items consolidated by capability

SPAWAR FRD Provides Flag / SES Engagement with the Fleet



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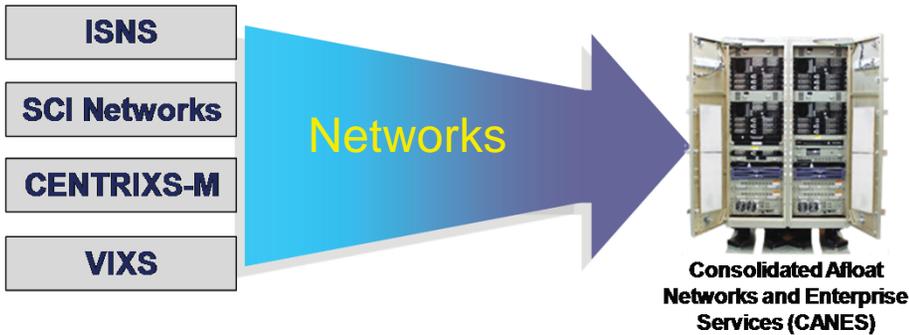
Improved Modernization - Installations

	2010	Today	To Be
Planning & Design	<ul style="list-style-type: none"> Late ship checks On time Ship Installation Drawings (SID): < 60% 	<ul style="list-style-type: none"> Improved ship checks On time SIDs: 89% Flag handoff at A-7 	<ul style="list-style-type: none"> Coordinate all programs into a single, on-time ship check On time SIDs
Contracts	<ul style="list-style-type: none"> Late Alteration Installation Team (AIT) contract awards 	<ul style="list-style-type: none"> Improved AIT contract award 	<ul style="list-style-type: none"> On time contract award Improved contract strategies
Execution / Test	<ul style="list-style-type: none"> Not integrated in basic package at RMC Frequently missed Production Completion Date (PCD) Poor coordination of SOVTs 	<ul style="list-style-type: none"> Improved integration in basic package Improved PCD performance Improved integration of SOVTs Added test officers to coordinate SOVTs 	<ul style="list-style-type: none"> Fully integrated in basic package Assigned FRD reps at RMCs FRD test officers to execute integrated SOVTs SOT on CANES ships
Organization	<ul style="list-style-type: none"> Distributed accountability Insufficient oversight 	<ul style="list-style-type: none"> Single SPAWAR POC Increased waterfront presence 	<ul style="list-style-type: none"> Single POC aligned with IMO Fully manned for workload

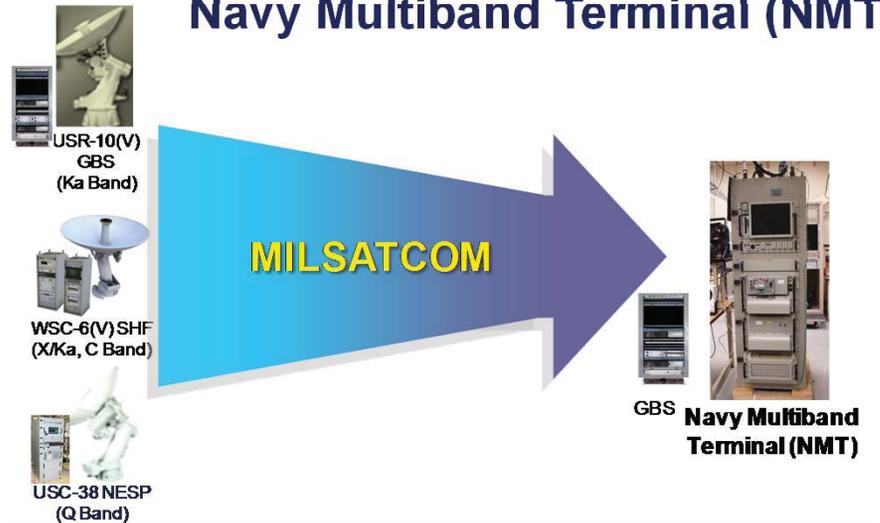


System Consolidation Reduces Variance

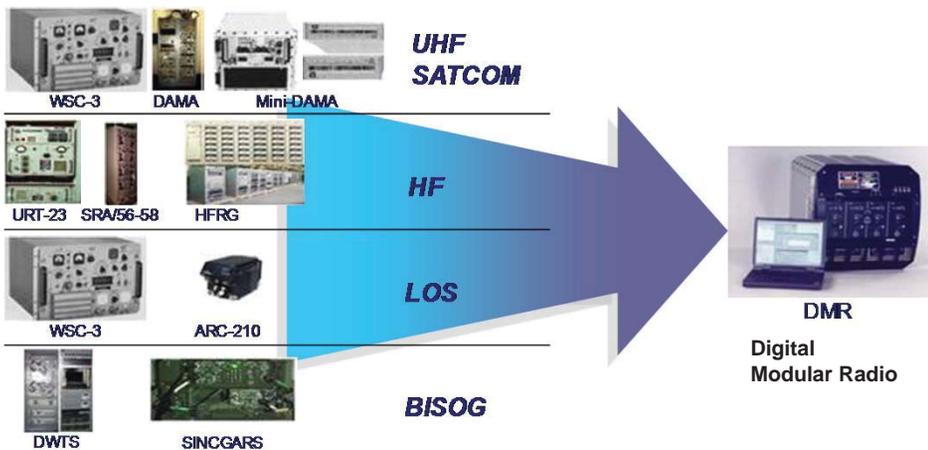
Consolidated Afloat Networks & Enterprise Services (CANES)



Navy Multiband Terminal (NMT)



Digital Modular Radio (DMR)



Commercial Broadband Satellite Program (CBSP)



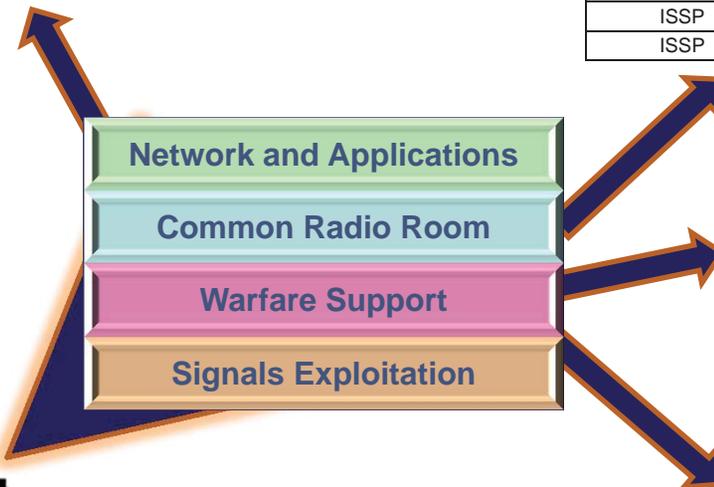


C4I Capability Builds – DDG Example

DDG Modernization FY14-15

Network and Applications		FY 14-15
Program	Variant/Version	
CANES	AN/USQ-208(V)1 CANES HW v1	
CANES	AN/USQ-208(V)1 CANES SW v1	
ADNS	AN/USQ-144K(V)2 ADNS INC III SP1/ SP2/ SP3	
GCCS-M	V4.1	
NTCSS	NTCSS Patriot v800-02.03.30	
NAVMACS	AN/SYQ-26(V)7 NAVMACS II Tech Refresh	
MFOM	MFOM Casualty Report Toolbox v2.0.1/ v2.1	
MFOM	MFOM Maintenance Toolbox v2.0.1/ v2.1	
BASELINE APPS	CANES Application Package	

Common Radio Room		FY 14-15
Program	Variant/Version	
NMT	AN/WSC-9(V)2 NMT (Q/X/Ka)	
GBS	AN/USR-10A(V)7	
ADNS	AN/USQ-144K(V)2 ADNS INC III SP1/ SP3	
CRYPTO	KIV-7M COMSEC Serial Crypto Replacement Phase I	
CRYPTO	KIV-7M COMSEC Serial Crypto Replacement Phase II	
UHF SATCOM	MD-1324A w/ IW	
DMR	DMR 6.4.x	
LINK 16	AN/URC-107 4.11 / AN/URC-141 BC 5	
BFTN	AN/USQ-195(V)1	
ISSP	EKMS Phase 5	
ISSP	KMI Spiral 2	



Warfare Support Systems		FY 14-15
Program	Variant/Version	
C2P	CDLMS 3.8	
NAVSTAR GPS	NAVSSI 4.2.0 or 4.2.1	
NAVSTAR GPS	NAVSSI 4.2.0.55R2 or 4.2.0.56 or 4.2.1.97R3	
NAVSTAR GPS	SEA NAVWAR ADAP	
JTT-M	AN/USQ-151 Block 6	

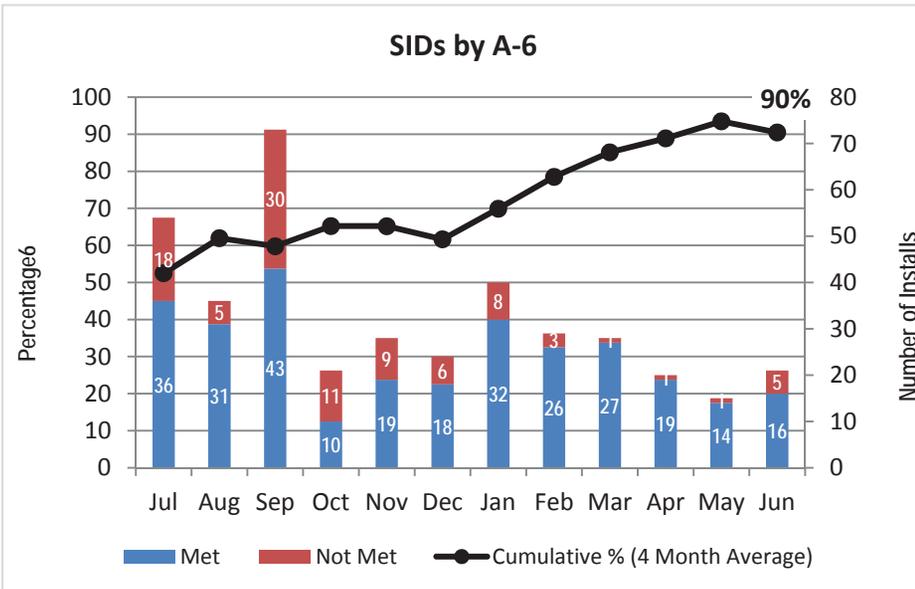
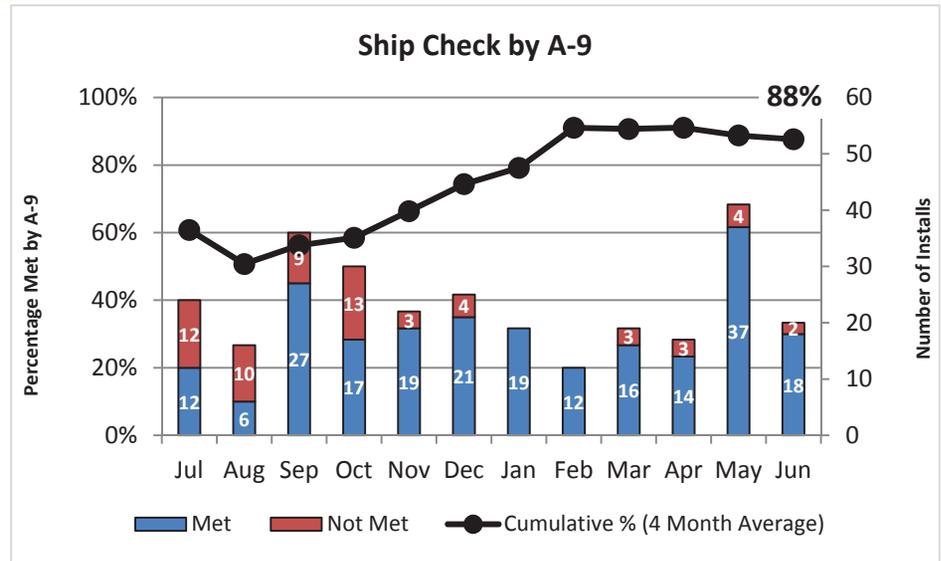
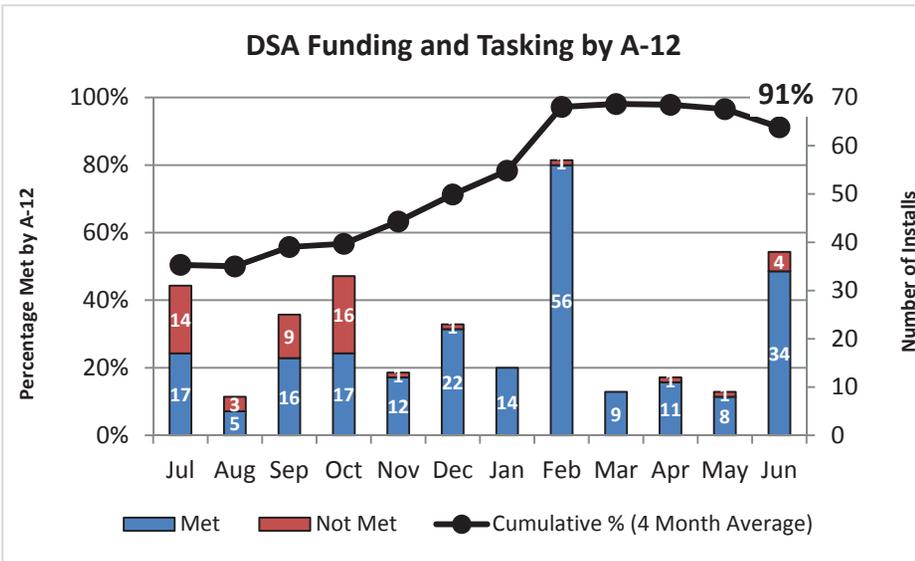
Signals Exploitation		FY 14-15
Program	Variant/Version	
SSEE Inc F	AN/SSQ-130(V) SSEE Inc F	



Four C4I Capability Builds with systems from the Platform Baseline



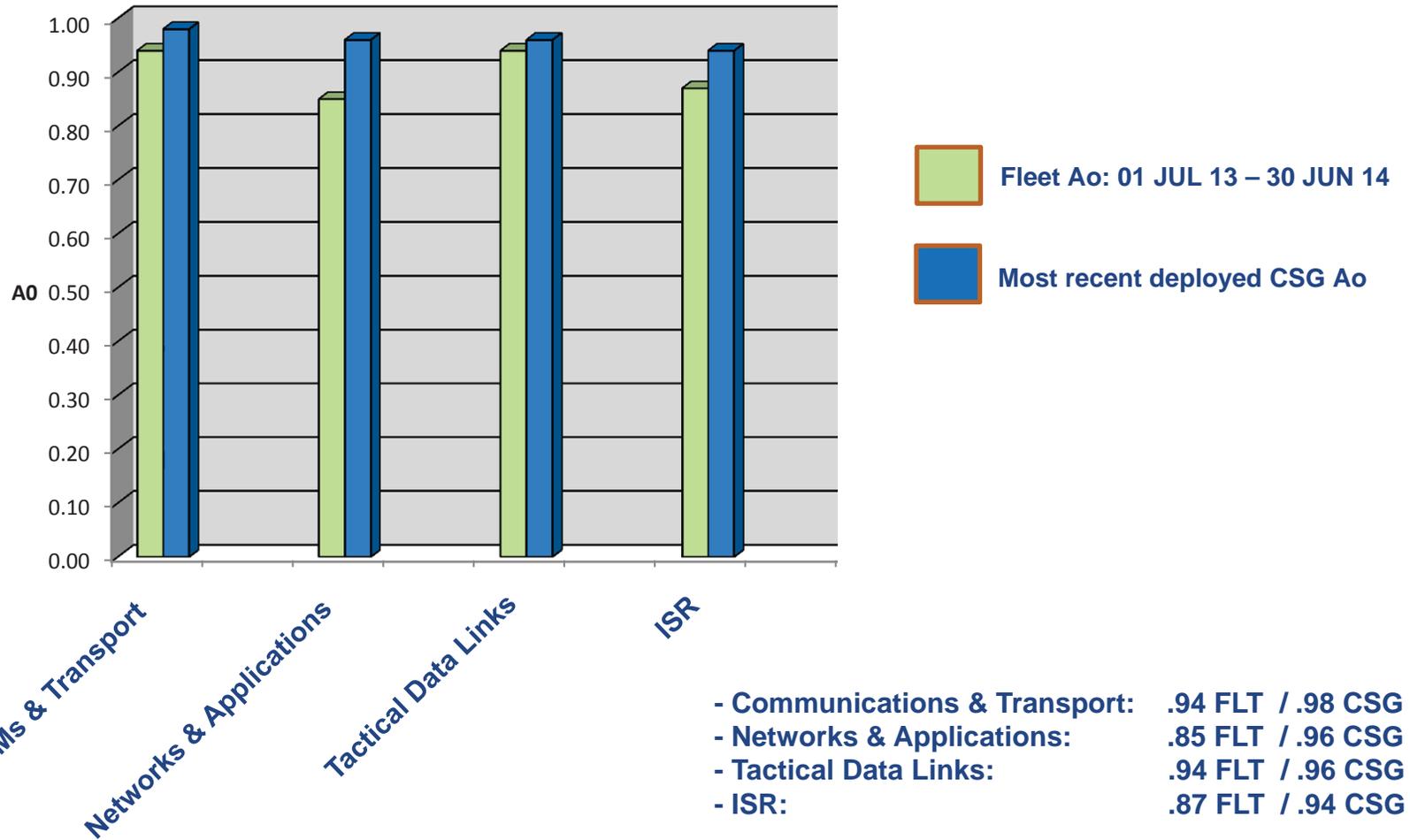
Improving Naval Modernization (NMP) Process Milestones



- ▼ Metrics show a clear correlation between earlier funding and on-time Ship Check & SID IAW NMP milestones
- ▼ Dedicated effort by FRD Design Management Team has dramatically improved SPAWAR performance



Overall vs. Deployed System Availability



"Pulsed" Readiness Focus Improved CY14 Deployed Readiness



BACK UP





System Operational Testing (SOT)

- ▼ C5I SOT pilot is mission based test of C4I suite vs systems test
- ▼ Exercises C4I suite before end of availability
- ▼ Provides opportunity for Ship's Force to understand C5I capabilities; increases crew confidence
- ▼ Maximizes efficiencies gained in performance, cost and scheduling
- ▼ Properly aligns shipboard assessments (e.g., TSRA, BMD TSOT, etc...) following an availability
- ▼ Opportunity for RMC SMEs to gain exposure and training on newly fielded systems

"I am confident that my ship can now go over the horizon and successfully perform our operational mission." – CDR Jonn Schmitz, CO, USS FITZGERALD

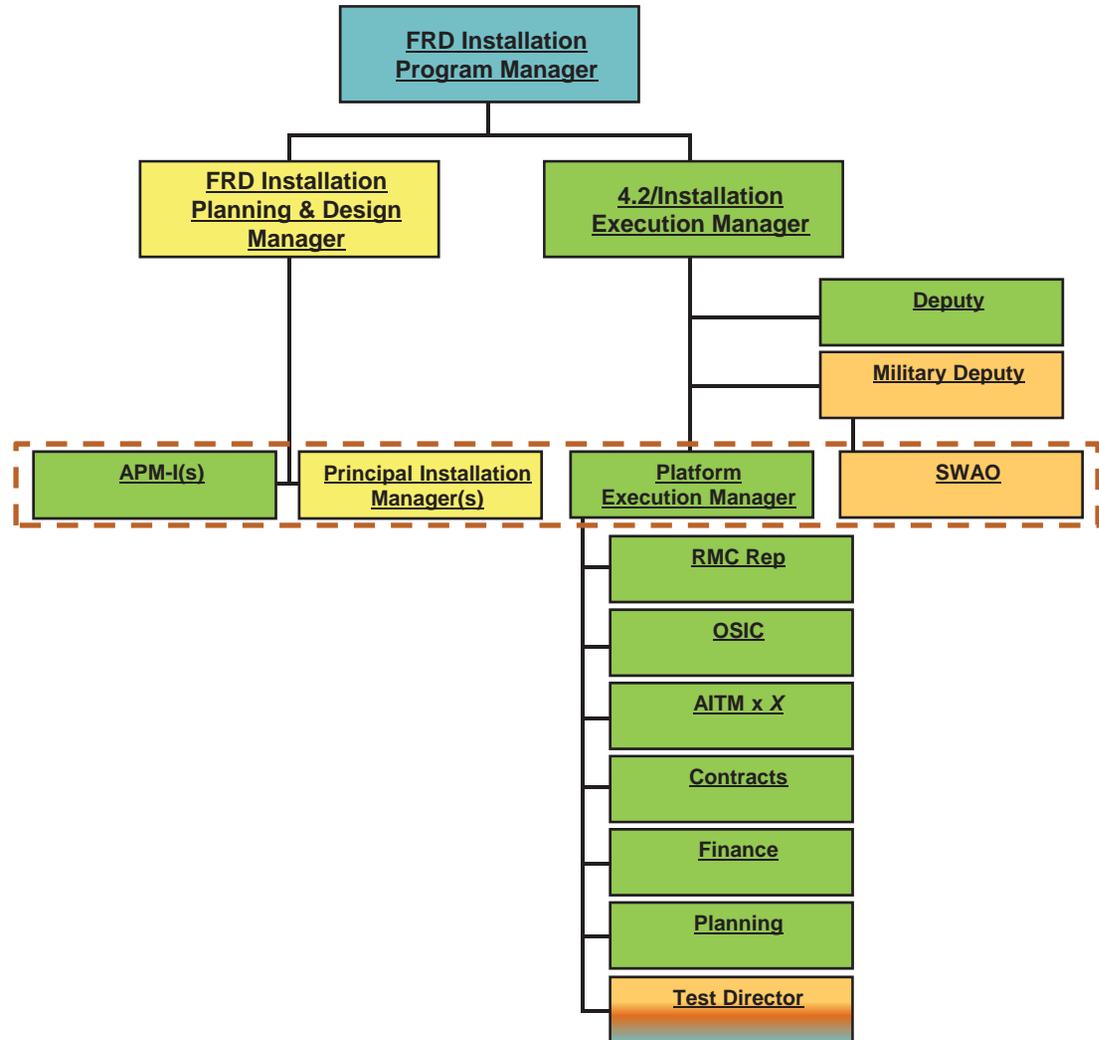


Waterfront Execution OPCON

ECH II CIV
MIL ECH II
MIL ECH III
ECH III CIV

Process

- ▼ At A-7* FRD stands up platform execution team accountable for CNO avail. Flag handoff.
- ▼ Coincides with PEO to FRD turnover of installation baseline and A-195 IPTD



 = Communication and Coordination

* A-12 timeframe for Undersea; A-6 timeframe for Shore