

CLASSIFICATION:		UNCLASSIFIED							
EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION						DATE February 2008			
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4			R-1 ITEM NOMENCLATURE 0603582N/COMBAT SYSTEM INTEGRATION						
COST (In Millions)			FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost			58.418	53.872	54.401	40.257	39.520	39.275	38.811
0164 / COMBAT SYSTEM INTEGRATION			57.447	52.282	54.401	40.257	39.520	39.275	38.811
9999 / CONGRESSIONAL ADDS			0.971	1.590	0.000	0.000	0.000	0.000	0.000
A. MISSION DESCRIPTION:									
Project 0164: Combat System Integration:									
<p>COMNAVSEASYS COM (SEA 05W) is assigned central responsibility for interoperability, directing the development of policy and architecture for Strike Force warfare systems engineering and implementation of a common warfare systems engineering process. Furthermore, SEA 05W provides top level direction and execution for certification and assessments which support capability and quality for ships and submarines. SEA 05W has developed processes and tools including the establishment of a force-level warfare systems engineering process, stewardship of the introduction of C5I modernization and improvement into the Fleet Response Plan (FRP), Command & Control, Communications, Computers, & Combat Systems Installation Master Plan (C5IMP) process, configuration management and certification processes, and force-level interoperability assessments using the Distributed Engineering Plant (DEP) land-based testing tool. This project funds the core elements required to conduct Warfare Systems Integration and Interoperability Testing (WSI2T) in accordance with the Naval Warfare Systems Certification Policy (NWSCP), Joint NAVSEA, NAVAIR, and SPAWAR SYSCOM Instruction.</p> <p>This project funds Strike Force (SF) requirements engineering and analysis. This includes SF configuration management through the Fleet Response Plan (FRP), shore based testing and Warfare System Integration and Interoperability Testing (WSI2T) certification of operational computer systems in a test environment similar to their ultimate shipboard operational environment, and Interoperability Assessments which are a prerequisite for operational certification of the ships in Strike Force configurations prior to deployment. Force Certification of deploying ships in Strike Force configurations is accomplished through the utilization of the Navy's Distributed Engineering Plant (DEP), which provides operational configurations for all Naval combat systems located at multiple (15) Navy & Industry land-based sites located across the country and connected via ATM networking technology. The DEP provides the only opportunity for comprehensive interoperability testing of combat system and C5I configuration items prior to shipboard delivery for operational use in surface combatant platforms and battle group units. It is a Fleet Forces Command requirement that all Strike Forces undergo Interoperability Certification testing in the DEP prior to deployment. Further, the DEP provides the mechanism to support the Navy's participation in the Joint testing environments (JDEP/JMETC) as well as the coalition forces through the Combined Forces Battle Laboratories (CFBL) network to allow for assessments of both Joint and Coalition interoperability.</p> <p>As the Navy embarks on Navy Open Architecture (OA), Common Network Interface (CNI) has been selected for upgrade on the LHA, LHD, and LSD ship classes. The program's development included a land based demonstration performed in April 2005 and an at-sea demonstration performed in February 2007. Production will commence in late FY07 with installations spirals planned in FY08 for both LHA and LHD class ships. Future software modifications will begin in FY07 and continue through the FYDP. CNI is an open</p>									

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<p>interface system that modernizes legacy amphibious ships that support the Expeditionary Strike Group (ESG). CNI uses Commercial Off The Shelf (COTS) hardware and common interoperable software compliant with the Navy's OA standards to integrate the data from ship's sensors, external links, and FORCENet sources into an operational picture for the war fighter. CNI provides rapid operational capability upgrades via a Rapid Capability Insertion Process (RCIP) using primarily software upgrades. CNI allows for the implementation of the Integrated Architecture Behavior Model (IABM), FORCENet and Network centric connectivity by providing the necessary fleet support activities which include: systems engineering support, software support, and integrated logistics support (ILS) to ensure proper coordination and connectivity of hardware and software components for accurate operation.</p> <p>9999/Congressional Adds: These FY08 funds resource two distinct projects, Visualization & Service-Oriented Architecture for Strike Force Interoperability and Automated Test and Retest, that provide end-to-end support for the management and execution of a Department of Defense effort to monitor, manage and enforce interoperability of Command, Control, Computers, Communications and Intelligence (C4I) and Combat Systems Command, Control, Computers Communications and Intelligence (C5I) systems installed aboard US Navy vessels and those installed or in use at shore stations and joint and coalition units operating with those vessels.</p> <p>9A02N Visualization & Service-Oriented Architecture for Strike Force Interoperability: Funds provide end-to-end support for the management and execution of a Department of Defense effort to monitor, manage and enforce interoperability of Command, Control, Computers, Communications and Intelligence (C4I) and Combat Systems Command, Control, Computers Communications and Intelligence (C5I) systems installed aboard US Navy vessels and those installed or in use at shore stations and joint and coalition units operating with those vessels.</p>		

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B. PROGRAM CHANGE SUMMARY:				
Funding:	FY 2007	FY 2008	FY 2009	
Previous President's Budget (FY2008 PRES Controls)	61.797	53.427	53.435	
Current President's Budget (FY 2009 PRES Controls)	58.418	53.872	54.401	
Total Adjustments	-3.379	0.445	0.757	
Navigation System Certification (NAVCERT) in Support o NW	0.000	0.000	1.500	
SEWIP Increase II AccelerationP Increase	0.000	0.000	-0.204	
Defense Security Services	0.000	0.000	-3.060	
PDM II INCREASE TO BRACV	0.000	0.000	2.676	
Small Bus. Innov. Research	-1.582	0.000	0.000	
Fed Tech. Transfer Tax	-0.050	0.000	0.000	
Navy Working Capital Fund (NWCF) Rate	0.000	0.000	0.209	
Sec. 8097: Contractor Efficiencies	0.000	-0.086	0.000	
Sec. 8104: Revised Economic Assumptions	0.000	-0.254	0.000	
Sec. 8025: FFRDC Reduction	0.000	-0.004	0.000	
Navy Working Capital Fund (NWCF) Rate	0.000	0.000	-0.155	
Execution Realignments by Fund Holder (BTR FACT)	-2,640	0.000	0.000	
Cancelled Accounts Liabilities	-0.078	0.000	0.000	
Exec Realign SB Issue	0.000	-0.801	0.000	
9999N Automated Test Re-Test	0.000	1.600	0.000	
Sec. 8097: Contractor Efficiencies	0.000	-0.002	0.000	
Sec. 8104: Revised Economic Assumptions	0.000	-0.008	0.000	
9999N OA/MFOP	1.295	0.000	0.000	
Sec. 8106 Revised Economic Assumptions	0.005	0.000	0.000	
Open Architecture/Maintenance Free Operating Period -OA/MFO	-1.300	0.000	0.000	
9A02N Visualization & Service-Oriented ArchcFor SF	0.996	0.000	0.000	
Small Bus. Innov. Research	-0.025	0.000	0.000	
Schedule: See R4/R4A Schedule.				
Technical: Funds encompass a sustainable Navigation Certification effort in support of VSYSCOM instruction and certification of platform/strike force interoperability in accordance with CFFC direction meeting 75% of deploying force requirements.				

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DATE

February 2008

APPROPRIATION/BUDGET ACTIVITY

RD TEN/BA 4

R-1 ITEM NOMENCLATURE

0603582N/COMBAT SYSTEM INTEGRATION**C. OTHER PROGRAM FUNDING SUMMARY:**

Related RDT&E: Computer programs developed under these programs are tested in their integrated configuration.

PE 0204571N (Consolidated Training Systems Development)

PE 0205620N (Surface ASW Combat System Technology)

PE 0603382N (Advanced Combat System Technology)

PE 0603755N (Ship Self Defense Dem/Val)

PE 0603658N (Cooperative Engagement)

PE 0604307N (AEGIS Combat Systems Engineering)

PE 0604755N (Ship Self Defense - EMD)

PE 0604518N (Combat Information Center Conversion)

PE 0603879N (Single Integrated Air Picture (SIAP) System Engineering (SE))

Related Procurement:

Line Item No. and Name	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
OPN 296000 (ICSTF/DEP): Integrated Combat System Test Facilities/Distributed Engineering Plant)	\$4.3	\$4.5	\$4.6	\$4.7	\$4.9	\$5.0	\$5.1		

D. ACQUISITION STRATEGY:

RD TEN funding under this line supports independent certification of the integration of major capability upgrades acquired by Program Executive Offices (PEOs) into host Navy Platforms and Strike Forces. The RD TEN engineering and certification activities at field sites does not involve direct procurement of equipment or engineering services, and hence no acquisition strategy is required. The major capability upgrades evaluated under this program fall under their associated PEOs' acquisition strategies.

E. MAJOR PERFORMERS:

Naval Surface Warfare Center - Distributed Engineering Plant (DEP), Strike Force Interoperability Requirements (SFIR) and Platform/Strike Force Certification efforts.

General Dynamics - Advanced Information Systems (GD-AIS) Digital Systems Resources, Inc. (DSR), Fair Lakes, VA- Prime contractor for Common Network Interface (CNI).

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APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603582N/COMBAT SYSTEM INTEGRATION			PROJECT NUMBER AND NAME 0164/COMBAT SYSTEM INTEGRATION		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	57.447	52.282	54.401	40.257	39.520	39.275	38.811
RDT&E Articles Qty	0	0	0	0	0	0	0

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As the Navy embarks on Navy Open Architecture (OA), Common Network Interface (CNI) has been selected for upgrade on the LHA, LHD, and LSD ship classes. The program's development included a land based demonstration performed in April 2005 and an at-sea demonstration performed in February 2007. Production will commence in late FY07 with installations spirals planned in FY08 for both LHA and LHD class ships. Future software modifications will begin in FY07 and continue through the FYDP. CNI is an open interface system that modernizes legacy amphibious ships that support the Expeditionary Strike Group (ESG). CNI uses Commercial Off The Shelf (COTS) hardware and common interoperable software compliant with the Navy's OA standards to integrate the data from ship's sensors, external links, and FORCEnet sources into an operational picture for

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<p>the war fighter. CNI provides rapid operational capability upgrades via a Rapid Capability Insertion Process (RCIP) using primarily software upgrades. CNI allows for the implementation of the Integrated Architecture Behavior Model (IABM), FORCEnet and Network centric connectivity by providing the necessary fleet support activities which include: systems engineering support, software support, and integrated logistics support (ILS) to ensure proper coordination and connectivity of hardware and software components for accurate operation.</p>		

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B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
	FY 2007	FY 2008	FY 2009
SF Requirements Engineering and Analysis	2.890	2.900	3.000
RDT&E Articles Quantity	0	0	0
In FY07 the program developed multi-mission strike scenarios and evaluated interoperability performance. Development of these standards are essential to the evaluation of emerging combat system capabilities, such as Open Architecture, CVN 77, CVN 21, and LCS. In FY 08 and FY 09, the program will implement the above mentioned multi-mission scenarios and interoperability test requirements, evaluate interoperability performance, and advise the Fleet of critical interoperability capabilities and limitations. Implementation of these standards are essential to evaluate emerging combat system capabilities, such as Open Architecture baselines in CG/DDG modernization, LCS, CVN 77, DDG 1000, and CVN 21. In addition to the above, funding is also dedicated to develop and implement interoperability fixes to combat systems, and to validate and certify completed fixes at the platform and Strike Force level through land-based testing. In accordance with DEPSECDEF Guidance of Oct 2001, interoperability problem corrections are evaluated according to their ability to improve the operational performance of deploying Strike Forces. There is no funding programmed for future interoperability fix packages per ASN (RDA) direction.			
	FY 2007	FY 2008	FY 2009
Platform/Strike Force Certification	10.047	15.082	15.500
RDT&E Articles Quantity	0	0	0
Conduct Systems Engineering Events (SEE) for root-cause determination of key interoperability problems and support development of new force-level warfare system capabilities. Conduct Interoperability Development (IO DEV) and Interoperability Certification events (IO CERT) in support of the Naval Warfare System Certification Plan (NWSCP). In FY07, one IO DEV was conducted for CVN 68OA, two IO Cert.'s for CVN 76/69 and LHD 7 and three SEE's in support of CNI and SGS programs. In FY08, three SEE's are planned to support root cause determination of current fleet interoperability issues, CVN 78 and Common Network Interface Flight 0+ development. Two IO DEV's are scheduled for Cruiser Modernization and SSDS platforms and two IO Cert.'s are planned in support of AWS 7.1R and CVN 68OA. In FY 09 anticipate the same level of effort for IO Dev and IO Cert testing while expanding the number of SEE events from three to five in order to continue support for CVN 78 interoperability assessment, fleet issue resolution, CNI, Shipboard Gridlock System and other associated programs under development. FY10 and beyond, continue to support interoperability assessment and interoperability systems engineering.			
	FY 2007	FY 2008	FY 2009
FRP	5.110	7.500	8.001
RDT&E Articles Quantity	0	0	0
In FY07 plans are to continue implementing the Fleet Response Plan (FRP) by providing support from the Strike Force Interoperability Teams which include On-Site-Reps, Project Engineers, Fleet Liaisons, Strike Force Interoperability Officers and support the FRP milestones relating to Command Control Communication Computer and Combat Systems Modernization Process (C5IMP). In FY08 and beyond, 25 + Strike Groups are being evaluated in some phase of the Fleet Response Plan (FRP). Continue development and distribution of Strike Group Capabilities and Limitations documentation for each Strike Force identified in the FRP process deployment cycle. This will include support to meet Emergency Surge, Surge, and Normal Deployment, and include limited CSCS training events with updated material from documented findings/results of underway and I/O Certification test events. Over 27 Capabilities and Limitations documents will be delivered, and over 12,000 configuration change requests will be processed.			

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	FY 2007	FY 2008	FY 2009	
Combat Systems Cert ISO Platform Certification	9.024	4.800	5.500	
RDT&E Articles Quantity	0	0	0	
In FY07 plans include Warfare System Integration and Interoperability Testing (WSI2T) of Ship Self Defense System (SSDS) MK-2 Mods 1-2, Advance Combat Direction System (ACDS) BLOCK 0 & 1, combat direction systems, and associated elements for CVN/LHD/LHA/LPD ship classes and Test Bed Validation. In FY08-FY13, continue planning for out-year testing to include the above and CVN 77, LCS, LPD 17, CVN 21, Open Architecture combat systems as well as integration of new combat system capabilities and Next Generation C2P.				
	FY 2007	FY 2008	FY 2009	
Navigation System Certification (NAVCERT)	0.000	0.000	1.500	
RDT&E Articles Quantity	0	0	0	
NAVSEA inst. 9420.4, dated May 02, requires periodic (every five years) navigation system certifications (NAVCERTs) to verify navigation system performance and accuracy. Scope includes TOMAHAWK, Standard Missile, Ballistic Missile and Theater Ballistic Missile alignment and re-certification, and Aircraft Inertial Alignment System (AIAS). Navigation Certification is a pre-requisition for full warfare systems certification of deploying platforms is VSYSCOM Naval Warfare Systems Certification Policy NAVSEA Inst. 9410.1. Fleet Message CNSF 211506Z, dated Nov 05, highlights the need to validate safety of navigation as critical to assurance of operational readiness. The NAVCERT ensures ships have systems that can safely perform navigation, weapons firing and aircraft launch and recovery. In FY09-FY13, there is a minimum number (27, 27, 28, 25, 35 respectively) of ships requiring NAVCERTs based on a five-year periodicity re-cert requirement. In FY 09 specifically, there are eight cruiser-destroyer (CRUDES), five amphibs, ten fast frigates (FFGs), three aircraft carriers, and one auxiliary (AUX).				
	FY 2007	FY 2008	FY 2009	
DEP Engineering and Operations	5.392	7.500	7.400	
RDT&E Articles Quantity	0	0	0	
Performs systems engineering, and operations functions to ensure DEP infrastructure supports testing of combat system baselines. Conduct systems engineering to identify simulation/stimulation requirements necessary to achieve required fidelity for DEP testing at Navy laboratory sites through verification, validation and accreditation. Evaluates network requirements for distributed test events, work with other Service R&D laboratories to identify system and test requirements supporting evaluation of joint system interoperability and the development of open system architecture baselines. Funds critical technical activity in force interoperability necessary to support all user communities of this important land-based test capability. i.e. acquisition; fleet; and industry. In FY07-FY09 projected nodes include SSC Charleston in support of OA testing and CVN 21 Joint and Coalition events will be supported through FY07 and beyond.				
	FY 2007	FY 2008	FY 2009	
JDEP	4.784	0.000	0.000	
RDT&E Articles Quantity	0	0	0	
Funds Navy participation in Joint Distributed Engineering Plant (JDEP) and related land-based test events and systems engineering activities. The Defense Planning Guidance (DPG) updated for FY 2002-2007 states that the JDEP program was established as a DoD-wide effort to link existing service and joint combat system engineering and test sites.				

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The JDEP is the lead infrastructure used for the evaluation of coordinated, joint engineering events, which include the validation of next-generation algorithms implementing the Single Integrated Air Picture (SIAP). Funds support Navy participation in JDEP approved test events and test bed improvements needed to conduct testing. FY07 events include JCHE Phase 4, Joint player participation in core Navy DEP certification event, and Joint OA experiments. No funding is available in FY 08 and beyond.			
	FY 2007	FY 2008	FY 2009
CNI/OA Transformation Roadmap	20.200	14.500	13.500
RDT&E Articles Quantity	0	0	0
<p>FY07 Plan: Continue systems engineering support, software support, and integrated logistics support (ILS) to ensure proper coordination and connectivity of hardware and software components for accurate operation.</p> <p>FY08 Plan: Continue systems engineering support, software support, and integrated logistics support (ILS) to ensure proper coordination and connectivity of hardware and software components for accurate operation.</p> <p>FY09 Plan: Continue systems engineering support, software support, and integrated logistics support (ILS) to ensure proper coordination and connectivity of hardware and software components for accurate operation.</p>			

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS										DATE		
										February 2008		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME					
RD TEN/BA 4		0603582N/COMBAT SYSTEM INTEGRATION					0164/COMBAT SYSTEM INTEGRATION					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost (\$000)	FY 2007 Cost (\$000)	FY 2007 Award Date	FY 2008 Cost (\$000)	FY 2008 Award Date	FY 2009 Cost (\$000)	FY 2009 Award Date	Cost to Complete (\$000)	Total Cost (\$000)	Target Value of Contract
SF Requirements Engineering & Analysis	WX/RX/PD	Various NSWCs	0.757	1.100	OCT-06	1.100	OCT-07	1.100	OCT-08	TBD	4.002	0.000
SF Requirements Engineering & Analysis	WX/RX/PD	Various Non-NSWCs	1.432	1.790	OCT-06	0.660	OCT-07	0.660	OCT-08	TBD	3.354	0.000
FRP	WX/RX/PD	Various NSWCs	5.441	4.960	OCT-06	6.010	OCT-07	6.734	OCT-08	TBD	22.269	0.000
FRP	WX/RX/PD	Various Non-NSWCs	0.000	0.150	OCT-06	0.188	OCT-07	0.187	OCT-08	TBD	0.515	0.000
Combat Systems Cert iso Platform Cert	WX/RX/PD	Various NSWCs	6.784	4.271	OCT-06	2.300	OCT-07	2.450	OCT-08	TBD	15.805	0.000
Combat Systems Cert iso Platform	WX/RX/PD	Various Non-NSWCs	1.666	0.217	OCT-06	0.000	N/A	0.000	N/A	TBD	1.883	0.000
Platform/Strike Force Cert	WX/RX/PD	Various NSWCs	10.200	4.350	OCT-06	6.300	OCT-07	6.350	OCT-08	TBD	27.154	0.000
Platform/Strike Force Cert	WX/RX/PD	Various Non-NSWCs	0.000	5.697	OCT-06	8.500	OCT-07	8.650	OCT-08	TBD	23.011	0.000
Navigation System Certification	WX/RX/PD	Various NSWCs	0.000	0.000	N/A	0.000	N/A	1.500	OCT-08	TBD	1.500	0.000
DEP Engineering and Operations	WX/RX/PD	Various NSWCs	6.141	2.030	OCT-06	2.660	OCT-07	2.660	OCT-08	TBD	13.491	0.000
DEP Engineering and Operations	WX/RX/PD	Various Non-NSWCs	0.000	3.362	OCT-06	4.644	OCT-07	4.730	OCT-08	TBD	12.982	0.000
JDEP	WX/RX/PD	Various NSWCs	3.295	2.766	OCT-06	0.000	N/A	0.000	N/A	TBD	6.237	0.000
JDEP	WX/RX/PD	Various Non-NSWCs	1.305	2.018	OCT-06	0.000	N/A	0.000	N/A	TBD	3.323	0.000
CNI/Design Agent	CPAF	General Dynamics	18.276	11.000	APR-07	10.300	OCT-07	9.300	OCT-08	TBD	48.876	0.000
CNI/Software Engineering	WX/RX/PD	NSWC Dahlgren	1.775	2.608	DEC-07	2.000	OCT-07	2.000	OCT-08	TBD	8.383	0.000
CNI/Test and Evaluation	WX/RX/PD	CDSA	1.022	1.100	DEC-07	0.800	OCT-07	1.000	OCT-08	TBD	3.922	0.000
CNI/Systems Engineering	WX/RX/PD	NSWC PHD	0.000	1.645	JAN-07	0.500	OCT-07	0.500	OCT-08	TBD	2.645	0.000
CNI/Miscellaneous	WX/RX/PD	VARIOUS	2.082	3.847	APR-07	0.900	APR-08	0.700	APR-09	TBD	6.456	0.000
OA Test and Retest	WX	Various NSWCs	8.500	0.000	N/A	0.000	N/A	0.000	N/A	CONT	8.500	0.000
Contract Engineering Support	VARIOUS	VARIOUS	2.571	2.838	NOV-06	3.750	NOV-07	4.210	NOV-08	TBD	16.031	0.000
Contract Program Mgt Support	VARIOUS	VARIOUS	0.643	1.398	NOV-06	1.370	NOV-07	1.370	NOV-08	TBD	4.781	0.000
Travel	PD	NAVSEA TRAVEL	0.250	0.300	SEP-07	0.300	SEP-08	0.300	SEP-09	TBD	1.150	0.000
Interoperability Fixes	WX/RX/PD	Various NSWCs	1.500	0.000	N/A	0.000	N/A	0.000	N/A	CONT	1.500	0.000
Subtotal Product Development			73.640	57.447		52.282		54.401		CONT	CONT	0.000

Remarks: NAVSEA implemented standard document issuance to streamline and reduce the number of documents executed which was approved by FMB and OMB. Forms explained below:

WX: WR & RCP Combination (Form 2276A)
RX: RCP
PD: Program Directive

CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-4, SCHEDULE PROFILE

DATE

February 2008

APPROPRIATION/BUDGET ACTIVITY
RD TEN/BA 4

PROGRAM ELEMENT NUMBER AND NAME
0603582N/COMBAT SYSTEM INTEGRATION

PROJECT NUMBER AND NAME
0164/COMBAT SYSTEM INTEGRATION

Fiscal Year	2007				2008				2009				2010				2011				2012				2013			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
AWS 7.1C Interop Dev Test (Unfunded)						2																						
AWS 7.1C Interop Cert Test (Unfunded)										2																		
DDG (M) Interop Dev/Cert Test					1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
DD(X) (TBD)													TBD	TBD	TBD	TBD												
CVN 21 (TBD)													TBD	TBD	TBD	TBD												
LCS 2 WSI2T					1																							
LPD 17/18/19/20 WSI2T	1	2	3		1				1								1											
CVN 68 Interop Dev Test			3										2	3			1	2										
CVN 68 Interop Cert Test							3																					
CVN 73 WSI2T		2																										
CVN 76/69 Interop Cert Test				4																								
CVN 69 WSI2T		2	3	4																								
SEE -01		2			1				2				1				2				1				2			
SEE -02			3			2				3				2				3				2				3		
SEE -03				4				4			4				3				4				3				4	
LHA 1/5 WSI2T							3	4																				
LHA 6 WSI2T (LHA R)																			4	1								
FFG Level 13 WSI2T			3				3				3				3				3				3				3	
CVN 76 WSI2T	1	2	3						2	3																		

The shaded bars reflect test windows and are not indicators of progress.

CLASSIFICATION:		UNCLASSIFIED																															
EXHIBIT R-4, SCHEDULE PROFILE																										DATE							
APPROPRIATION/BUDGET ACTIVITY																										February 2008							
RD TEN/BA 4					PROGRAM ELEMENT NUMBER AND NAME														PROJECT NUMBER AND NAME														
					0603582N/COMBAT SYSTEM INTEGRATION														0164/R4 Page 2 Combat Integration														
Fiscal Year		2007				2008				2009				2010				2011				2012				2013							
Quarter		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
LSD 41/49 WSI2T (Funded by Program Office)					4												4	1															
LHD 24/5 WSI2T		1	2				2	3			2	3			2	3			2	3			2	3							2	3	
CVN 77 WSI2T							2	3																									
CVN 77 Interop Dev Test					4																												
CVN 77 Interop Cert Test											1																						
LHA 4 WSI2T		1	2				2	3							2	3																	
CVN 74 WSI2T			2	3																													
LPD 21/22/23			2	3			1				2	3			1																		
CVN 65/71/71/75 WSI2T (65/71 Only)		1				1	2	3	4					1	2	3	4		2	3													
LHD 7 WSI2T										1	2																						
CVN 70 WSI2T									4																								
CVN 68 WSI2T			2	3	4	1	2	3	4																								
LHD 8 WSI2T								3	4																								
NAVY JOINT TEST			2	3	4																												
LCS 1 WSI2T			2	3	4	1																											
LHD 6 WSI2T			2	3				3																									
AEGIS CG MOD WSI2T										1																							
AEGIS CG MOD Interop Cert Test											2																						
LCS 2 Interop Cert Test							2																										
CG MOD Interop Dev Test							2																										
LPD 21 Interop Dev Test									4																								
CVN 76/69 Interop Dev Test									4																								
Coalition Event						1								1																1			
Joint DEP Events								3	4																								

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CLASSIFICATION:		UNCLASSIFIED						
EXHIBIT R-4a, SCHEDULE DETAIL						DATE		
						February 2008		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME				
RD TEN/BA 4	0603582N/COMBAT SYSTEM INTEGRATION			0164/COMBAT SYSTEM INTEGRATION				
Schedule Profile	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	
AWS 7.1C Interop Dev Test (Unfunded)		2Q						
AWS 7.1C Interop Cert Test (Unfunded)			2Q					
DDG (M) Interop Dev/Cert Test		1Q, 2Q, 3Q, 4Q	1Q, 2Q, 3Q, 4Q	1Q, 2Q, 3Q, 4Q	1Q, 2Q, 3Q, 4Q	1Q, 2Q, 3Q, 4Q	2Q, 3Q, 4Q	
DD(X)				TBD	TBD	TBD	TBD	
CVN 21				TBD	TBD	TBD	TBD	
LCS 2 WSI2T		1Q						
LPD 17/18/19/20 WSI2T	1Q, 2Q, 3Q	1Q	1Q		1Q			
CVN 68 Interop Dev Test	3Q			2Q, 3Q	1Q, 2Q			
CVN 68 Interop Cert Test		3Q						
CVN 73 WSI2T	2Q							
CVN 76/69 Interop Cert Test	4Q							
CVN 69 WSI2T	2Q, 3Q, 4Q							
SEE - 01	2Q	1Q	2Q	1Q	2Q	1Q	2Q	
SEE - 02	3Q	2Q	3Q	2Q	3Q	2Q	3Q	
SEE - 03	4Q	4Q	4Q	3Q	4Q	3Q	4Q	
LHA 1/5 WSI2T		3Q, 4Q						
LHA 6 WSI2T (LHA R)					4Q	1Q		
FFG Level 13 WSI2T	3Q	3Q	3Q	3Q	3Q	3Q	3Q	
CVN 76 WSI2T	1Q, 2Q, 3Q		2Q, 3Q					

CLASSIFICATION:		UNCLASSIFIED						
EXHIBIT R-4a, SCHEDULE DETAIL						DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4		PROGRAM ELEMENT NUMBER AND NAME 0603582N/COMBAT SYSTEM INTEGRATION			PROJECT NUMBER AND NAME 0164/R4 Page 2 Combat Integration			
Schedule Profile		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
LSD 41/49 WSI2T (Funded by Program Office)		4Q			4Q	1Q		
LHD 2/4/5 WSI2T		1Q,2Q	2Q,3Q	2Q,3Q	2Q,3Q	2Q,3Q	2Q,3Q	2Q,3Q
CVN 77 WSI2T			2Q,3Q					
CVN 77 Interop Dev Test		4Q						
CVN 77 Interop Cert Test				1Q				
LHA 4 WSIT2		1Q,2Q	2Q,3Q		2Q,3Q			
CVN 74 WSI2T		2Q,3Q						
LPD 21/22/23		2Q,3Q	1Q	2Q,3Q	1Q			
CVN 65/71/72/75 WSI2T		1Q	1Q,2Q,3Q,4Q		1Q,2Q,3Q,4Q	2Q,3Q		
LHD 7 WSI2T				1Q,2Q				
CVN 70 WSI2T			4Q					
CVN 68 WSI2T		2Q,3Q,4Q	1Q,2Q,3Q,4Q					
LHD 8 WSI2T			3Q,4Q					
NAVY JOINT TEST		2Q,3Q,4Q						
LCS 1 WSI2T		2Q,3Q,4Q	1Q					
LHD 6 WSI2T		2Q,3Q	3Q					
AEGIS CG MOD WSI2T				1Q				
AEGIS CG MOD Interop Cert Test				2Q				
LCS 2 Interop Cert Test			2Q					
CG MOD Interop Dev Test			2Q					
LPD 21 Interop Dev Test			4Q					
CVN 76/69 Interop Dev Test			4Q					
Coalition Event			1Q		1Q			1Q
Joint DEP Events			3Q,4Q					

CLASSIFICATION:		UNCLASSIFIED	
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION			DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 4	PROGRAM ELEMENT NUMBER AND NAME 0603582N/COMBAT SYSTEM INTEGRATION	PROJECT NUMBER AND NAME 9999/CONGRESSIONAL ADDS	
B. ACCOMPLISHMENTS/PLANNED PROGRAM:			
	FY 2007	FY 2008	FY 2009
Visualization & Service-Oriented Architecture for Strike Force Interop	0.971	0.000	0.000
RDT&E Articles Quantity	0	0	0
These funds were provided by Congressional Plus Up. Project 9A02N. Funds provide end-to-end support for the management and execution of a Department of Defense effort to monitor, manage and enforce interoperability of Command, Control, Computers, Communications and Intelligence (C4I) and Combat Systems Command, Control, Computers Communications and Intelligence (C5I) systems installed aboard US Navy vessels and those installed or in use at shore stations and joint and coalition units operating with those vessels. It includes business process modeling, program management systems support, requirements analysis, architectural design, systems engineering support, web application development within existing web applications, visualization tool development, configuration management, testing and results analysis.			
	FY 2007	FY 2008	FY 2009
Open Architecture Automates Test and Re-Test Capability	0.000	1.590	0.000
RDT&E Articles Quantity	0	0	0
Automated Test and Re-Test Capability: Funds added to program to support software engineering upgrades to enable rapid test and re-test of open architecture software modules and associated improvements. During FY07 methodology was further developed with the intent to transition to program in FY10. Being in FY07, funding is being utilized to define and develop methodology for automating the test of Combat Systems. The maturing of this effort intends to transition the programming of Automated Testing and Re-Testing (ATRT) capability by FY10.			