

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification						DATE:		
						February 2007		
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA4				R-1 ITEM NOMENCLATURE 0603237N Deployable Joint Command & Control (DJC2)				
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	40.640	16.321	9.475	7.998	8.172	8.316	8.454	8.596
3050 Deployable Joint Command & Control	40.640	16.321	9.475	7.998	8.172	8.316	8.454	8.596
Quantity of RDT&E Articles								
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: Deployable Joint Command and Control (DJC2) is a Secretary of Defense (SECDEF) and Chairman, Joint Chiefs of Staff (CJCS) priority DoD transformation initiative that provides a deployable, scalable and tailorable headquarters command and control (C2) capability for selected Regional Combatant Commander (RCC). It is the materiel solution to Standing Joint Force Headquarters (SJFHQ), a new capability to be implemented at each RCC starting in FY05. DJC2 will ensure that Joint Force Commanders (JFC) are equipped, as well as trained and organized, to carry out their C2 responsibilities. The DJC2 program addresses both the Quadrennial Defense Review (QDR) finding that a joint command and control architecture needs to be developed for standing Joint Task Forces (JTFs) at each of the RCCs and the need for a deployable Joint Command and Control System described in the Transformation Study Report presented to the Secretary of Defense in April 2001. It integrates lessons learned from U.S. Central Command's deployable headquarters funded from the FY 2001 Emergency Supplemental Act for Recovery from and Response to Terrorist Attacks on the United States. The JCS/Joint Requirement Oversight Council (JROC) has approved the DJC2 Mission Needs Statement (MNS), Operational Requirements Document (ORD) and a Capabilities Production Document (CPD).</p> <p>DJC2 seeks to provide standing, and standardized, joint C2 systems that can be deployed by RCCs or JTFs and the new SJFHQ concept and doctrine being developed by Joint Forces Command in coordination with other RCCs and the Joint Staff, as tasked by Defense Program Guidance (DPG). RCC and JTF commanders will use a deployable joint command and control capability for day-to-day operations, as well as when deployed for training or contingency operations. The capability is intended for all levels of conflict and will be reconfigurable to meet specific RCC and JTF mission requirements. This capability must be interoperable with higher and adjacent echelons of command (to include coalition allies) as well as with supporting elements to include joint forces.</p> <p>DJC2 will utilize Global Command and Control System (GCCS) in its core suite of applications, ensuring interoperability with the worldwide-installed base of GCCS-J.</p>								

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<p>The RDT&E line supports an evolutionary acquisition strategy. The intent of this strategy is to develop a system based upon a current understanding of joint requirements, rapidly field systems based upon those requirements, analyze operational utilization of the systems, and roll the results of the analysis into periodic upgrades of the systems to maintain currency and maximize operational effectiveness. Maximum use will be made of commercial technologies; technology insertion of each DJC2 suite will be made approximately every three years. The baseline Increment I configuration will be based upon existing Science and Technology (S&T) initiatives, Advanced Concepts Technology Demonstration (ACTD) Programs, programs of record, and fielded capabilities of the services and defense agencies, scaled to the Regional Combatant Commander (RCC) level. Subsequent deliveries will include newly developed capabilities based on emergent, joint requirements and operational feedback from utilization of earlier delivered systems, as well as incorporation of new commercial technologies.</p> <p>(U) A. JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES because it develops and integrates hardware and software for experimental tests related to specific applications.</p>		

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME			
RDT&E, N / BA 4	0603237N Deployable Joint Command & Control	3050 Deployable Joint Command & Control (DJC2)			
(U) B. PROGRAM CHANGE SUMMARY:					
(U) Funding:		FY 2006	FY 2007	FY 2008	FY 2009
FY07 President's Budget		40.841	16.383	41.741	7.883
FY08/09 President's Budget Submit		40.640	16.321	9.475	7.998
Total Adjustments		-0.201	-0.062	-32.266	0.115
Summary of Adjustments					
Program Adjustments		-0.201		-32.037	0.061
BRAC - Create an Integrated Weapons & Armaments Specialty Site for Guns & Ammo					0.009
BRAC - Create Naval Int. Weapons & Arm. Research, Dev & Acq, Test & Eval Center				-0.001	-0.008
BRAC 05 Mitigation Strategy Balancer				0.001	0.008
FY 08 / FY 09 NWCF Rate Adjustments - Naval Surface Warfare Center				-0.005	-0.003
FY 08 / FY 09 NWCF Rate Adjustments - SPAWAR Systems Centers				0.007	0.002
Sec. 8106: Revised Economic Assumptions			-0.062		
Non-Purchase Inflation Adj.				-0.231	0.046
Subtotal		-0.201	-0.062	-32.266	0.115
(U) Schedule:					
Not Applicable					
(U) Technical:					
Not Applicable					

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA 4	PROGRAM ELEMENT NUMBER AND NAME 0603237N Deployable Joint Command & Control	PROJECT NUMBER AND NAME 3050 Deployable Joint Command & Control (DJC2)

(U) B. Accomplishments/Planned Program

Systems Engineering & Integration	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	20.236	4.616	3.443	3.700
RDT&E Articles Quantity				

FY06: Conducted assessments and began detailed planning for follow-on increment and methodology necessary to implement design into the engineering test bed, as well as the Joint Forces Command (JFCOM), Pacific Command (PACOM), and US Central Command (CENTCOM) systems. Refined Architecture views necessary to support follow-on Increment Information Support Plan, Cost Documentation, Testing, and Capabilities Production Document. Performed necessary requirements decomposition using Rational Unified Process, driving toward a production level specification. Began testing and integrating service based architecture, refining knowledge management procedures necessary for incorporation into the Global Information Grid Enterprise Services (GIG-ES) Model. Evaluated and began transition of hardware toward Internet Protocol 6.0. Identified solution for Multi-Level Security and evaluated impact on IT server size and deployability. Determined impact on bandwidth and refinement of data reach back procedures to specified Centers of Excellence, optimizing only handling information once (OHIO). Conducted necessary design reviews to validate proposed design. Continued analysis and architectural design for technologies identified as part of the technology insertion process for Increment I. Began to prototype and test small scale, two man portable, two secure network rapidly response command and control capability(R2C2). Began development of an Everything Over Internet Protocol (EOIP) transition capability for DJC2 as part of the migration toward net-centricity.

FY07: Complete prototyping and testing of R2C2 capability. Complete development of EOIP capability for DJC2 as part of the migration toward net-centricity.

FY08: Identify upgrades to the Increment I DJC2 Systems. Continue Increment I migration to Net-Centricity and update design documentation and training material to reflect changes driven by emerging and required Enterprise Services Key Information Profiles. Update system to meet Transport KIP requirements mandated by the Net Ready Key Performance Parameter levied on DJC2 by the Joint Requirements Oversight Council. Obtain prototype upgrade equipment and conduct trade studies per the system engineering guidelines. Document system performance and finalize a design for DJC2 Increment I Upgrade. Conduct Critical Design Review for upgrade plan and upon design approval, prepare the mandatory Engineering Change Proposal, identifying all testing, training, support and sparring requirements. Construct, integrate and test an alternative packing capability for DJC2. Identify, integrate and test world-wide power modification to DJC2.

FY09: Complete Critical Design Reviews for upgrade plan. Continue with system engineering analysis and Integration activities. Operational test technology insertion/technology refresh design modifications.

DJC2 RDT&E Test Bed	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	4.396	6.892	4.032	3.048
RDT&E Articles Quantity				

FY06: Developed and implemented changes in the DJC2 RDT&E test bed based on lessons learned in Advanced Concepts Technology Demonstrations (ACTDs) and operations/exercises. Utilized the test bed in realistic military demonstrations, and on that basis, made assessments of the military utility.

FY07: Continue to develop and implement changes in the DJC2 RDT&E test bed based on lessons learned in ACTDs and operations/exercises. Utilize the test bed in realistic military demonstrations and, on that basis, make assessments of the military utility.

FY08: Conduct field testing and developmental testing of final Increment I Upgrade system. Test integrated alternate C2 packaging arrangement. Upgrade the Developmental Test Unit to production representation in order to be used for operational testing. Support the operational testing of the new design in a operational scenario to validate measures of effectiveness and measures of suitability.

FY09: Identify and incorporate changes in the DJC2 test bed based upon lessons learned from fielded systems and operational testing

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EXHIBIT R-2a, RDT&E Project Justification		DATE: February 2007		
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(U) B. Accomplishments/Planned Program				
Acquisition Documentation Activities				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	3.900	2.383	1.350	0.800
RDT&E Articles Quantity				
<p>FY06: Analyzed, prepared, and performed Milestone B, In-Process Review (IPR), and Milestone C activities.</p> <p>FY07: Continue to analyze, prepare, and perform In-Process Review (IPR), and Milestone acquisition activities.</p> <p>FY08: Continue to analyze, prepare, and perform In-Process Review (IPR), and Milestone acquisition activities.</p> <p>FY09: Continue to analyze, prepare, and perform In-Process Review (IPR), and Milestone acquisition activities.</p>				
Technology Investigation / Requirements definition				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	10.129	0.000	0.000	0.000
RDT&E Articles Quantity				
<p>FY06: Validated technical concepts and technologies for recommendation for inclusion into follow-on increments.</p> <p>FY07: Not Applicable.</p> <p>FY08: Not Applicable.</p> <p>FY09: Not Applicable.</p>				
CONOPS Experimentation System				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	1.979	2.430	0.650	0.450
RDT&E Articles Quantity				
<p>FY06: Began technology refresh and component upgrade for the Continuity Of Operations (CONOPS) Experimentation System at JFCOM</p> <p>FY07: Complete technology refresh and component upgrade for the CONOPS Experimentation System at JFCOM</p> <p>FY08: Component upgrade for CONOPS System at JFCOM</p> <p>FY09: Continue Component upgrade for CONOPS System at JFCOM</p>				

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(U) C. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. & Name</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
OPN BLI 2804	27,501	0	0	11,116	11,020	11,520	12,014	12,408	Cont.	Cont.

(U) D. ACQUISITION STRATEGY:

This RDT&E line supports an evolutionary acquisition strategy. The intent of this strategy is to: develop a system based upon a current understanding of joint requirements; rapidly field systems based upon those requirements; analyze operational utilization of the systems; and roll the results of the analysis into periodic upgrades of the systems to maintain currency and maximize operational effectiveness. The Increment I configuration will be based upon existing C4I systems, scaled to the Combatant Command level. The follow-on configurations will include newly developed capabilities based on emergent, joint requirements and operational feedback based upon utilization of earlier delivered systems.

(U) E. METRICS:

Earned Value Management (EVM) is used for metrics reporting and risk management.

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Exhibit R-3 Cost Analysis (page 1)						DATE: February 2007						
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDTE, N / BA 4			0603237N Deployable Joint Command & Control			3050 Deployable Joint Command & Control (DJC2)						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware Development	VAR	NSWC, Crane, USA, & VAR	15.931	2.430	VAR	0.650	VAR	0.450	VAR	Continuing	Continuing	
Ancillary Hardware Development												
Aircraft Integration												
Ship Integration												
Ship Suitability												
Systems Engineering	VAR	VAR	37.390	2.116	VAR	2.443	VAR	2.400	VAR	Continuing	Continuing	
Training Development												
Engineering Facility Development	WX	NSWC, CSS	23.945	2.337	VAR	2.000	VAR	1.941	VAR	Continuing	Continuing	
Tooling												
GFE												
Award Fees												
Subtotal Product Development			77.266	6.883		5.093		4.791		Continuing	Continuing	
Remarks:												
Development Support												
Software Integration	VAR	NSWC, CSS & VAR	35.149	2.500	VAR	1.000	VAR	1.300	VAR	Continuing	Continuing	
Integrated Logistics Support												
Configuration Management												
Technical Investigations	VAR	NTA & VAR	12.309	1.117	VAR					Continuing	Continuing	
Trade-off Studies & Analyses	VAR	NTA & VAR	9.000							Continuing	Continuing	
GFE												
Award Fees												
Subtotal Support			56.458	3.617		1.000		1.300		Continuing	Continuing	
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)							DATE: February 2007					
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RDT&E, N / BA 4			0603237N Deployable Joint Command & Control			3050 Deployable Joint Command & Control (DJC2)						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	MPR	46th Test Wing & VAR	7.000	1.000	VAR	1.000	VAR	0.500	VAR	Continuing	Continuing	
Operational Test & Evaluation	VAR	OPTEVFOR & VAR	7.500	1.438	VAR	1.032	VAR	0.607	VAR	Continuing	Continuing	
Live Fire Test & Evaluation												
Test Assets	MPR	Eglin AFB & VAR	3.000	1.000	VAR					Continuing	Continuing	
Tooling												
GFE												
Award Fees												
Subtotal T&E			17.500	3.438		2.032		1.107		Continuing	Continuing	
Remarks:												
Contractor Engineering Support												
Government Engineering Support												
Program Management Support	VAR	NSWC, CSS & VAR	26.358	2.383	VAR	1.350	VAR	0.800	VAR	Continuing	Continuing	
Travel												
Transportation												
Subtotal Management			26.358	2.383		1.350		0.800		Continuing	Continuing	
Remarks:												
Total Cost			177.582	16.321		9.475		7.998		Continuing	Continuing	
Remarks:												

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EXHIBIT R4, Schedule Profile																										DATE: February 2007										
APPROPRIATION/BUDGET ACTIVITY					PROGRAM ELEMENT NUMBER AND NAME												PROJECT NUMBER AND NAME																			
RDT&E, N / BA 4					0603237N Deployable Joint Command & Control												3050 Deployable Joint Command & Control (DJC2)																			
Fiscal Year	2005				2006				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	1	2	3	4	1	2	3	4
Acquisition Milestones																																				
MILESTONE C																																				
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Test & Evaluation Milestones																																				
Development Test																																				
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Production Milestones																																				
Deliveries																																				

