

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification

DATE:

February 2006

APPROPRIATION/BUDGET ACTIVITY

RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7

R-1 ITEM NOMENCLATURE

0303158N Joint Command and Control (JC2) Program

COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	0.000	4.925	5.073	5.078	4.938	4.922	4.883
3146 JOINT COMMAND AND CONTROL (JC2)	0.000	4.925	5.073	5.078	4.938	4.922	4.883
Quantity of RDT&E Articles							

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Joint Command and Control (JC2) capability will contain the fundamental building blocks and common applications for all fielded Department of Defense (DoD) Command and Control Systems. JC2 will provide the warfighter: (1) timely access to battlefield information, and (2) state-of-the-art information processing capability to support the Command and Control of DoD, Allied and coalition forces through a combination of communications, intelligence and combat system interfaces. Global Command and Control System Maritime (GCCS-M) will begin migration to Joint Command and Control (JC2) development in coordination with the Joint Command and Control (JC2) Program. Efforts in FY06-07 will support migration of GCCS-M capabilities to commercial best practices as the JC2 architecture is further refined.

JC2 will include all Command and Control Command, Control, Communications, Computers, & Intelligence (C4I) applications required to fully support Navy/joint interoperability in the littoral environment, and includes all common functions such as track database management, message processing, display implementation, correlation and system architecture migration in order to ensure a coherent and consistent implementation of C4I architectures in the Fleet. The Joint Command and Control (JC2) capability will be the DoD principal command and control (C2) information technology system. JC2 will provide agile C2 capabilities allowing joint forces to achieve a tempo of operations, decision-making, and command that adversaries cannot match. JC2 will enable decision superiority via advanced collaborative information sharing achieved through vertical/horizontal joint C2 interoperability. Transformation to future warfighting capabilities requires enhanced battlespace awareness, timely information exchange, and net-centric forces to support critical joint and multinational operations.

Global Command and Control System (GCCS) including GCCS-M, will evolve from its current state of joint and Service variants to a single joint C2 architecture and capabilities-based implementation comprised of joint mission capability packages and Service-unique applications based on Global Information Grid (GIG) enterprise services enabling shared access to Service/Agency/joint-provided data sources. The first step in this evolution is the creation of a DoD Program Element and transfer of some funding from each of the services' GCCS program lines, beginning in FY 06. JC2 will support force-level planning, execution, monitoring, and assessment of joint and multinational operations. JC2 will employ a secure, collaborative, web-enabled, and tailored C2 architecture that provides decision superiority and vertical/horizontal interoperability. Users will access shared data sources through common Internet Protocol (IP) based network services, common data representations, and common catalogs/directories capable of utilizing intelligent thin and ubiquitous (e.g., wireless, personal digital assistant (PDA)) clients.

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R-1 ITEM NOMENCLATURE

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0303158N Joint Command and Control (JC2) Program

(U) B. PROGRAM CHANGE SUMMARY:

(U) Funding:	FY 2005	FY 2006	FY 2007
FY06 President's Budget	0.000	5.000	5.000
FY07 President's Budget	0.000	4.925	5.073
Total Adjustments	0.000	-0.075	0.073
Summary of Adjustments			
Navy Working Capital Fund (NWCF) CIVPERS Efficiencies			-0.050
Enhancement to JC2			0.100
Inflation rate change			0.022
CIVPERS Pay Raise Rate Changes			0.001
Sec. 8125: Revised Economic Assumptions		-0.023	
Congressional Action 1% Reduction		-0.052	
Subtotal	0.000	-0.075	0.073

(U) Schedule:

Not Applicable

(U) Technical:

Not Applicable

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0303158N Joint Command and Control (JC2) Program			PROJECT NUMBER AND NAME 3146 Joint Command and Control (JC2)			
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	0.000	4.925	5.073	5.078	4.938	4.922	4.883
RDT&E Articles Qty							

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Joint Command and Control (JC2) capability will contain the fundamental building blocks and common applications for all fielded DoD Command and Control Systems. JC2 will provide the warfighter: (1) timely access to battlefield information, and (2) state-of-the-art information processing capability to support the Command and Control of DoD, Allied and coalition forces through a combination of communications, intelligence and combat system interfaces. GCCS-M will begin migration to Joint Command and Control (JC2) development in coordination with the Joint Command and Control (JC2) Program. Efforts in FY06-07 will support migration of GCCS-M capabilities to commercial best practices as the JC2 architecture is further refined.

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Global Command and Control System (GCCS) including GCCS-M, will evolve from its current state of joint and Service variants to a single joint C2 architecture and capabilities-based implementation comprised of joint mission capability packages and Service-unique applications based on Global Information Grid (GIG) enterprise services enabling shared access to Service/Agency/joint-provided data sources. The first step in this evolution is the creation of a DoD Program Element and transfer of some funding from each of the services' GCCS program lines, beginning in FY 06. JC2 will support force-level planning, execution, monitoring, and assessment of joint and multinational operations. JC2 will employ a secure, collaborative, web-enabled, and tailored C2 architecture that provides decision superiority and vertical/horizontal interoperability. Users will access shared data sources through common Internet Protocol (IP) based network services, common data representations, and common catalogs/directories capable of utilizing intelligent thin and ubiquitous (e.g., wireless, PDA) clients.

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EXHIBIT R-2a, RDT&E Project Justification		DATE:	February 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N / BA-5	0303158N Joint Command and Control (JC2) Program	3146 Joint Command and Control (JC2)	
(U) B. Accomplishments/Planned Program			
	FY 05	FY 06	FY 07
Accomplishments/Effort/Subtotal Cost	0.000	4.925	5.073
RDT&E Articles Quantity			
<p>FY 06 - Migrate GCCS-M capabilities to commercial standards and architectures envisioned to be used by the JC2 capability.</p> <p>FY 07 - Migrate additional GCCS-M capabilities to standards-based architectures.</p>			

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EXHIBIT R-2a, RDT&E Project Justification						DATE: February 2006			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME				
RDT&E, N / BA-5		0303158N Joint Command and Control (JC2) Program			3146 Joint Command and Control (JC2)				
(U) C. OTHER PROGRAM FUNDING SUMMARY:									
<u>Line Item No. & Name</u>	<u>FY 2005</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>	To <u>Complete</u>	Total <u>Cost</u>
N/A									
(U) D. ACQUISITION STRATEGY:									
N/A									
(U) E. MAJOR PERFORMERS:									
Space & Naval Warfare Systems Command Systems Center (SPAWARSYSCEN) San Diego provides support as the Government research and development facility.									

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Exhibit R-3 Cost Analysis (page 1)

DATE:

February 2006

APPROPRIATION/BUDGET ACTIVITY

PROGRAM ELEMENT

PROJECT NUMBER AND NAME

RDT&E, N / BA 5

0303158N Joint Command and Control (JC2) Program

3146 Joint Command and Control (JC2)

Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development											0.000	0.000
Ancillary Hardware Development											0.000	0.000
Systems Engineering	WX	SSC SD				1.175		1.250		Continuing	Continuing	0.000
Licenses											0.000	0.000
Tooling											0.000	0.000
GFE											0.000	0.000
Award Fees											0.000	0.000
Subtotal Product Development			0.000	0.000		1.175		1.250		Continuing	Continuing	0.000

Remarks:

Development Support	WX	SSC SD				0.625		0.625		Continuing	Continuing	0.000
Software Development	WX	SSC SD				0.625		0.625		Continuing	Continuing	0.000
Training Development											0.000	0.000
Integrated Logistics Support											0.000	0.000
Configuration Management											0.000	0.000
Technical Data											0.000	0.000
GFE											0.000	0.000
Subtotal Support			0.000	0.000		1.250		1.250		Continuing	Continuing	0.000

Remarks:

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Exhibit R-2, RDTEN Budget Item Justification
(Exhibit R-2, page 6 of 9)

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Exhibit R-3 Cost Analysis (page 2)											DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5			PROGRAM ELEMENT 0303158N Joint Command and Control (JC2) Program			PROJECT NUMBER AND NAME 3146 Joint Command and Control (JC2)						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	SSC SD				1.250		1.323		Continuing	Continuing	0.000
Operational Test & Evaluation											0.000	0.000
Live Fire Test & Evaluation											0.000	0.000
Test Assets											0.000	0.000
Tooling											0.000	0.000
GFE											0.000	0.000
Subtotal T&E			0.000	0.000		1.250		1.323		Continuing	Continuing	0.000
Remarks:												
Contractor Engineering Support											0.000	0.000
Government Engineering Support	WX	SSC SD				1.250		1.250		Continuing	Continuing	0.000
Program Management Support											0.000	0.000
Travel											0.000	0.000
Subtotal Management			0.000	0.000		1.250		1.250		0.000	2.500	0.000
Remarks:												
Total Cost			0.000	0.000		4.925		5.073		Continuing	Continuing	0.000
Remarks:												

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EXHIBIT R4, Schedule Profile																			DATE:									
February 2006																												
APPROPRIATION/BUDGET ACTIVITY									PROGRAM ELEMENT NUMBER AND NAME								PROJECT NUMBER AND NAME											
RDT&E, N / BA-5									0303158N Joint Command and Control (JC2) Program								3146 Joint Command and Control (JC2)											
Fiscal Year	2005				2006				2007				2008				2009				2010				2011			
	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			4.0 FRP ▲						4.2 /JC2 Inc 1 MS B ▲									4.2 /JC2 Inc 1 MS C ▲		4.2/JC2 Inc 1 FRP ▲								
			4.1 MS B ▲						4.1 MS C ▲		4.1 FRP ▲							4.3 /JC2 Inc 2 MS B ▲				4.3/JC2 Inc 2 MS C ▲						
Software Deliveries	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
Test & Evaluation Milestones								4.1 DT ▲										4.2/JC2 Inc 1 DT ▲							4.3/JC2 Inc 2 DT ▲			
Development Test																												
Operational Test	4.0 OT ▲								4.1 OT ▲									4.2/JC2 Inc 1 OT ▲							4.3/JC2 Inc 2 OT ▲			
Production Milestones																												
Deliveries																												

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