Exhibit R-2, RDT&E Budget Item Justificati	on		DATE: Februar	ry 2006				
APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMEN	NCLATURE				
RDT&E, Defense-Wide/05			Joint Command and Control /PE 0303158K					
COST (in Millions)	FY05	FY06	FY07	FY08	FY09	FY10	FY11	
Joint Command and Control	2.905	15.358	47.031	53.120	26.874	27.573	28.430	
(JC2)/JC01				1				

A. <u>Mission Description & Budget Item Justification</u>: Joint Command and Control (JC2) Capability is the next generation of command and control for the Department of Defense (DoD). JC2 Capability is the follow-on to the Global Command and Control System (GCCS) Family of Systems including the DISA-provided GCCS-J, the current Joint C2 system of record for the Department. JC2 Capability is a key DoD Transformation effort that will provide a wide range of strategic, operational and theater-level Command and Control (C2) capabilities to the warfighter based on a more net-centric, webbased, open system standards architecture. It will leverage the technologies and Core Enterprise Services provided by the Net-Centric Enterprise Services (NCES) and other net-centric providers. JC2 Capability is based on the Joint Requirements Oversight Council (JROC)-approved Operational Requirements Document (ORD), dated 22 August 2003, and the Draft JC2 Capability Development Document (CDD) currently being finalized by Joint Forces Command (JFCOM). JC2 will provide capabilities in eight Mission Capability Packages: Situational Awareness, Force Readiness, Force Projection, Intelligence, Force Protection, Force Employment (Air/Space Operations), Force Employment (Land Operations), and Force Employment (Maritime/Littoral Operations). The requested RDT&E funding is critical to supporting DoD Transformation in the area of joint command and control. Accordingly, this program element is under Budget Activity 05.

In accordance with DoD goals, next generation C2 efforts merged with JC2 in FY 2006 and beyond: Net-Centric Capabilities Pilot (NCCP) (PE 0604764K, AITS-JPO/Project T26) and C2 Community of Interest (COI) Services/User Defined Operational Picture (UDOP) (PE 0303149K, C4I For the Warrior/Project T55). JC2 will also use the NCES Core Enterprise Services (CES) and/or NCES Evaluation Capability Modules (ECM) as they become available. These components will support Global Information Grid (GIG) requirements of the Combatant Commanders (COCOM) and the Joint Task Forces (JTF). This project supports JC2 major milestone activities to include concept exploration, program planning, and technology risk reduction through prototyping, development, integration, evaluation and limited operational use for evaluation.

Accomplishments/Planned Program:

	FY 05	FY 06	FY 07
Subtotal Cost	2.905	14.358	47.031

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JC2-related pilot capabilities will prove net-centric warfighting mission capabilities for the C2 Community of Interest (COI) based on Combatant Commander defined Joint Mission Threads (JMT) and a services oriented (web-based) architecture. JMT is a JFCOM-led effort that will develop comprehensive descriptions of architectural elements (including associated operational requirements and the systems engineering approach) that define how the joint force will execute key warfighting mission threads. FY 2005 funding supported JC2 concept refinement activities: developing the Technology Development Strategy, Test and Evaluation Strategy, Clinger Cohen Act compliance, and Information Assurance Strategy. FY 2006 through FY 2007 funding will support the Technology Development phase activities and the pre-MS B activities necessary to reduce the risk across the life cycle of the program. Two FY 2005 DISA projects have merged with JC2 Capability beginning in FY06, Net-Centric Capabilities Pilot (NCCP) (PE 0604764K, AITS-JPO/Project T26) and C2 Community of Interest (COI) Services/User Defined Operational Picture (UDOP) (PE 0303149K, C4I For the Warrior/Project T55).

- DISA sponsored Net-Centric Capabilities Pilot (NCCP) began in FY 2004. It started a discovery process and a dialogue with the warfighting, development and acquisition communities on how to build, test, certify and operate effective, robust, and secure net-centric warfighting capabilities. This piloting effort is compliant with DODD 5000.1 and supports JC2 Capability concept exploration, technology risk reduction, and provided insight in developing the JC2 Technology Development Strategy (TDS) and Test and Evaluation Strategy (TES). As part of the JC2 Technology Development (TD) phase, NCCP activities will be transitioned into the JC2 Joint Program Management Office (JPMO). These activities will include periodic demonstration events to showcase selected mission threads, which describe how capabilities will enable a key joint warfighting capability or mission area and identify operational needs for those capabilities to Combatant Commanders (COCOMs), DoD senior leadership, and others such as coalition partners.
- User-Defined Operational Picture (UDOP) capabilities will provide a tailored relevant operational context that enables users to share a common understanding, improve their situational awareness, and conduct mission threads more effectively. Capabilities will be achieved within a services-oriented architecture that leverages GIG Enterprise Services (GES). The resulting capability will provide improved situational awareness, planning, collaboration and execution. JC2 capability's situational awareness/UDOP capabilities will be more flexible and extensible than the currently deployed client-server based GCCS Family of Systems' (FOS) Common Operational Picture (COP). The UDOP will provide increased agility for the user by generating an operational context from net-centric sources and services using a variety of web-based situational awareness tools as opposed to a hierarchical-COP generated by a single command authority.

Exhibit R-2, RDT&E Budget Item Justificati	on	1	DATE: Februa	ry 2006			
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RDT&E, Defense-Wide/05	ı	Joint Command and Control /PE 0303158K					
COST (in Millions)	FY05	FY06	FY07	FY08	FY09	FY10	FY11
Joint Command and Control (JC2)/JC01	2.905	15.358	47.031	53.120	26.874	27.573	28.430

- JC2 Technology Development phase capabilities are being developed, integrated, tested and certified in a joint, distributed, collaborative development environment. Mission thread capabilities demonstrated in NCCP are composed from many Combatant Command/Service/Agency web-enabled data sources and services (e.g., DISA to include available NCES Core Enterprise Service (CES) pilot services and some C2 COI UDOP services, Service development and research commands, other agencies, Advanced Concept Technology Demonstrations (ACTDs), Programs of Record, and industry). These capabilities will continue to evolve as JC2 capabilities. Pilot/demonstration capabilities are made available to users on the classified network for evaluation, maturation and limited operational use (through a participating Program of Record) per ASD (NII) direction.

JC2 Capability Development and Strategic Planning - JC2 Capability will build upon and expand the capabilities developed and integrated in the GCCS Family of Systems, and migrate the capabilities to a more modern, net-centric architecture. FY 2005 activities focused on several JC2 Capability pre-Milestone A tasks assigned to DISA by OASD (NII). These tasks included preparing the JC2 TDS and TES. DISA also supported the OASD(NII)-led JC2 Analysis of Alternatives (AoA). DISA was formally designated by (ASD (NII) memorandum of 2 September 2005) as the JC2 Capability lead component. As the Lead Component, DISA has concurrently stood up a Joint Program Executive Office (JPEO) and Joint Program Management Office (JPMO) and project a MS A decision in FY2006 followed by entry into the Technology Development (TD) phase activities. The TD phase is forecasted for FY06 through FY08. These activities include: 1) acquisition management, 2) system engineering and architectural analysis, 3) establish/operate/validate the Federated Development and Certification Environment, 4) technical risk reduction piloting efforts, and 5) planning for MS B and the System Development and Demonstration Phase.

JC2 increase in FY06 for operational security.

Exhibit R-2, RDT&E Budget Item Justification	DATE: February 2006							
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COST (in Millions)	FY05	FY06	FY07	FY08	FY09	FY10	FY11	
Joint Command and Control (JC2)/JC01	2.905	15.358	47.031	53.120	26.874	27.573	28.430	

B. Program Change Summary:			
	<u>FY 05</u>	<u>FY 06</u>	FY 07
Previous President's Budget	3.905	14.580	<u>FY 07</u> 19.674
Current Submission	2.905	15.358	47.031
Total Adjustments	-1.000	0.778	27.357

Change Summary Explanation:

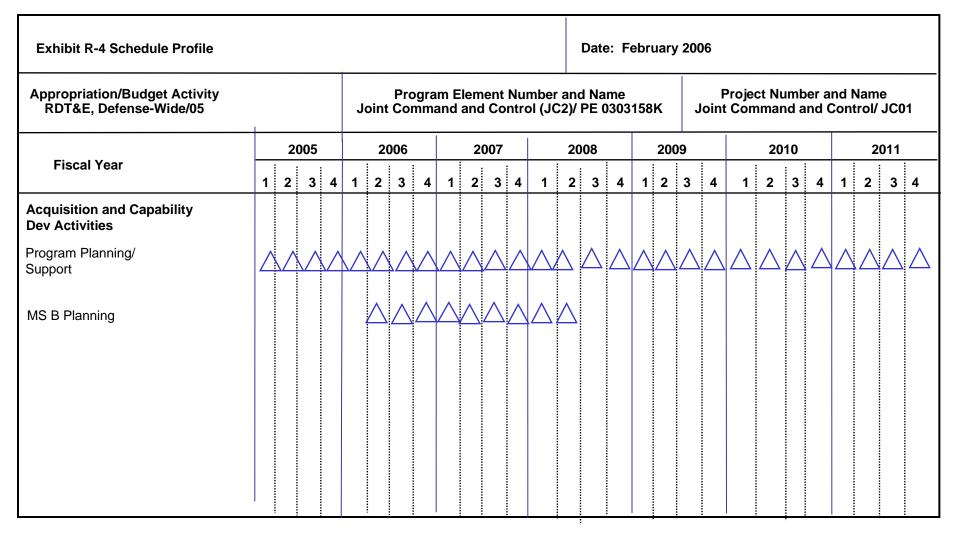
The FY 2005 change is due to transfer of funds to the Navy for an Internet Protocol v.6 testbed project. FY 2006 change is due to a Congressional add of \$1.0 million for Operational Security as well as undistributed Congressional reductions to the Defense-Wide RDT&E appropriation. FY 2007 increase is due to a Departmental decision to complete JC2 Technology Development Phase activities.

C. Other Program Funding Summary:

FY 05	<u>FY 06</u>	<u>FY 07</u>	<u>FY 08</u>	<u>FY 09</u>	<u>FY 10</u>	<u>FY 11</u>	
O&M, DW	0.408	8.440	6.008	6.559	6.787	6.659	6.743

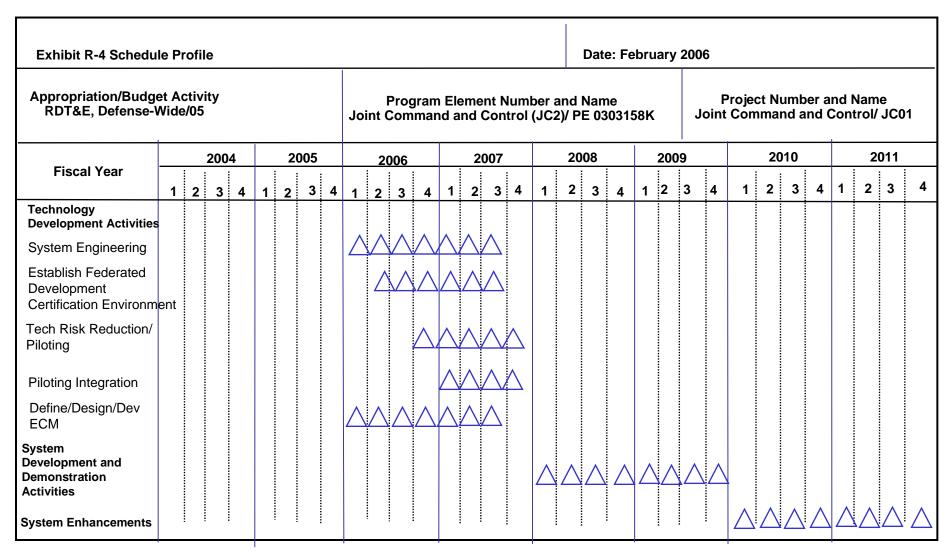
- D. <u>Acquisition Strategy</u>: JC2 Capability will utilize existing IDIQ contract vehicles during the Technology Development phase. Support will span a wide array of areas to include acquisition planning, systems engineering, tech piloting, and test/certification activities. During this timeframe, the JPMO will build an acquisition strategy for the program. Performance based contracts will be used when applicable.
- E. <u>Performance Metrics</u>: JC2 Capability supports several DISA Balanced Scorecard measures including net-centric compliance and providing Community of Interest (COI) capabilities to the warfighter. An internal project level Earned Value Management System has been implemented. The Program Manager will exercise oversight of contractor performance relative to established project cost, schedule, and performance milestones. Monthly In Process Reviews (IPRs) and routine program reviews will continue to be used to provide timely information on contractor expenditures. Routine status will also be provided through the OSD Integrated Product Team (IPT) structure.

Exhibit R-3 Cost Analysis				DATE: February 2006						
APPROPRIATION/BUDGET ACT	TIVITY	PROGRAM ELE	MENT	PROJECT NAME AND NUMBER						
RDT&E, Defense-Wide/05		Joint Comma	nd and Conti	col/ Pi	€	J	Joint Com	mand and Cor	ntrol/J	TC01
		0303158K								
		·								
Cost Category	Contract	Performing	Total		FY 06		FY07			Target
	Method	Activity &	PYs	FY 06	Award	FY07	7 Award	Cost To	Total	Value of
	& Type	Location	Cost	Cost	<u>Date</u>	Cost	<u>Date</u>	<u>Complete</u>	Cost	Contract
JC2 Technical Risk Reduction & Piloting	TRD	TBD	0.000	2.500	Mar-06	7.900	0 Mar-07	Conta	Conta	10.400
JC2 Acquisition Support	TBD	TBD	0.000	1.500	Mar-06	5.700		Contg	Contg	7.200
System Engineering	OTF&O	MITRE, FFRDC	1.595	1.728	Oct-05	2.257		Contg	Contg	5.580
		McLean, VA								
JC2 Program Planning Support	F&O	BAH Arlington, VA	0.830	0.000	N/A	0.000	0 N/A	0	0.830	0.830
JC2 Program Planning Support	F&O	KeyLogic Systems	0.480	0.000	N/A	0.000	0 N/A	0	0.480	0.480
302 i Togram i Tariming Support	1 40	Columbia, MD	0.400	0.000	14/73	0.000	O N/A	O	0.400	0.400
Engineering Support	MOA	JPL, FFRDC	0.000	0.300	Jan-06	2.300	0 Jan-07	Contg	Contg	2.600
		San Diego, CA						_	_	
Pilot Integration	TBD	SAIC-APEX-968	0.000	1.425	Mar-06	2.200	0 Mar-07	Contg	Contg	3.625
C2IM Testing	MOA	McLean, VA SSC-SD GOVT	0.000	0.240	Feb-06	2.500	0 Feb-07	Contg	Contg	2.740
Czlivi Testing	WOA	San Diego, CA	0.000	0.240	1-60-00	2.500	0 Feb-07	Conty	Conig	2.740
SW Dev & Tech Suppt	F&O	Various	0.000	3.275	Various	18.034	4 Oct-06	Contg	Contg	21.309
								Ü	· ·	
C2 Visualization/Portal	F&O	Various	0.000	0.540	Various	1.800	0 Oct-06	Contg	Contg	2.340
SW Svs Orchestration	F&O	NextGen-Solers, Rosslyn, VA	0.000	0.891	Mar-06	0.000	0 N/A	0	0.891	0.891
Engineering Support	F&O	NextGen-FGM	0.000	0.750	Mar-06	0.000		0	0.750	0.750
Linging Support	1 40	Reston, VA	0.000	0.700	war oo	0.000	5 14/71	· ·	0.700	0.700
Architecture/Engineering		S&T Assoc., Arlington, VA	0.000	0.675	Mar-06	0.000		0	0.675	0.675
Engineering/Tech Svcs	MOA	SSC-CH GOVT MOA/MIPR	0.000	0.534	Oct-05	4.340	0 Oct-06	Contg	Contg	4.874
Congressional Add	TDD	Suitland, MD	0.000	1 000	TDD	0.000	O NI/A	0	1 000	1.000
Congressional Add	TBD	TBD	0.000	<u>1.000</u>	TBD	0.000	<u>0</u> N/A	0	1.000	1.000
	Total		2.905	15.358		47.03	31			



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R-1 Line Item No. 107



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Exhibit R-4a Schedule Detail	DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT	PROJECT NAME AND NUMBER
RDT&E, Defense-Wide/05	Joint Command and Control (JC2) / PE 0303158K	Joint Command and Control / JC01

Schedule Profile	FY2005	FY2006	FY2007	FY2008	FY2009	FY 2010	FY 2011
JC2 Capability Acquisition & Development							
Program Planning/Support MS B Planning	1Q-4Q	1Q-4Q 2Q-4Q	1Q-4Q 1Q-4Q	1Q-4Q 1Q-2Q	1Q-4Q	1Q-4Q	1Q-4Q
Technology Development Activities							
System Engineering		1Q-4Q	1Q-3Q				
Establish Federated Development Certification Environm	ent	2Q-4Q	1Q-3Q				
Tech Risk Reduction/Piloting		4Q	1Q-4Q				
Piloting Integration			1Q-4Q				
Define/Design/Dev ECM		1Q-4Q	1Q-3Q				
System Demonstration and Development Activities				1Q-4Q	1Q-4Q		
System Enhancements						1Q-4Q	1Q-4Q