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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 The Joint Staff **DATE:** February 2010

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303149J: <i>Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW)</i>
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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	3.652	4.081	2.261	0.000	2.261	2.315	2.369	2.419	2.470	Continuing	Continuing
P001: <i>Communication Requirements Development Support</i>	0.331	0.866	0.886	0.000	0.886	0.887	0.896	0.905	0.959	Continuing	Continuing
P002: <i>Coalition Warrior Interoperability Demo</i>	1.352	1.672	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
P003: <i>Communications Operations Analysis and Integration</i>	1.969	1.543	1.375	0.000	1.375	1.428	1.473	1.514	1.511	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW) vision evolved into the Department's Global Information Grid (GIG) as a means to achieve Information Superiority. The GIG is the globally interconnected, end-to-end set of information capabilities, associated processes, and personnel for collecting, processing, storing, disseminating and managing information on-demand to warfighters, policy makers, and support personnel. The GIG includes all owned and leased communications and computing systems and services, software (including applications), data, security services, and other associated services necessary to achieve Information Superiority. It also includes National Security Systems as defined in section 5142 of the Clinger-Cohen Act of 1996. The GIG supports all DOD, National Security, and related Intelligence Community missions and functions (strategic, operational, tactical and business), in war and in peace. The GIG also provides capabilities from all operating locations (bases, posts, camps, stations, facilities, mobile platforms, and deployed sites). Finally, the GIG provides interfaces to coalition, allied, and non-DOD users and systems.

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B. Program Change Summary (\$ in Millions)

	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>
Previous President's Budget	3.901	4.081	0.000	0.000	0.000
Current President's Budget	3.652	4.081	2.261	0.000	2.261
Total Adjustments	-0.249	0.000	2.261	0.000	2.261
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Program Transfer	-0.249	0.000	2.261	0.000	2.261

Change Summary Explanation

In FY2011, Coalition Warrior Interoperability Demonstration (CWID) program transfers from the Joint Staff to Director of Defense Research and Engineering and Navy for USJFCOM consistent with program management responsibility.

The DoD did not estimate FY2011 cost when the FY2010 President's Budget was prepared.

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>			R-1 ITEM NOMENCLATURE PE 0303149J: <i>Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW)</i>					PROJECT P001: <i>Communication Requirements Development Support</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
P001: <i>Communication Requirements Development Support</i>	0.331	0.866	0.886	0.000	0.886	0.887	0.896	0.905	0.959	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW) vision evolved into the Department's Global Information Grid (GIG) as a means to achieve Information Superiority. The GIG is the globally interconnected, end-to-end set of information capabilities, associated processes, and personnel for collecting, processing, storing, disseminating and managing information on-demand to warfighters, policy makers, and support personnel. The GIG includes all owned and leased communications and computing systems and services, software (including applications), data, security services, and other associated services necessary to achieve Information Superiority. It also includes National Security Systems as defined in section 5142 of the Clinger-Cohen Act of 1996. The GIG supports all DOD, National Security, and related Intelligence Community missions and functions (strategic, operational, tactical and business), in war and in peace. The GIG also provides capabilities from all operating locations (bases, posts, camps, stations, facilities, mobile platforms, and deployed sites). Finally, the GIG provides interfaces to coalition, allied, and non-DOD users and systems.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Communication Requirements Development Support Supports Joint Command, Control, Communications, and Computers (C4) analytical tool development; Global Information Grid (GIG) transformational activities; GIG network operations and related network management and configuration management efforts, cyberspace operations, and joint C4 network and program development. Institutionalizes knowledge management capabilities across the Joint Staff. Ensures synchronization of systems to network capabilities, validates the Net-Ready Key Performance Parameters, and certifies interoperability and supportability.	0.331	0.866	0.886	0.000	0.886

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B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p><i>FY 2009 Accomplishments:</i> Developed the Joint Information Environment – Marianas Operational Architecture to identify and align information technology investments with mission requirements and approved joint capability areas. Researched and compiled a consolidated, comprehensive list of joint tasks to serve as a basis for planning, readiness reporting, joint training and joint military activities in cyberspace. Developed the GIG 2.0 Operational Reference Architecture identifying the operational outcomes and technical characteristics for a secure, single information environment across the DoD enterprise. Drafted the GIG 2.0 Capstone Capability Delivery Increment Plan, documenting the required activities and technical requirements to achieve the GIG 2.0 vision. Coordinated stakeholder meetings in support of CJCS IPv6 Certification Criteria and participated in the Joint User Interoperability Communications Exercise and DoD Interoperability Communications Exercise 2010 to research interoperability challenges. Provided Web 2.0 technology training to Joint Staff members across all directorate, the National Military Command Center, and Pakistan/Afghanistan Coordination Cell. Provided technical analysis and recommendations on US Strategic Command Operational Plans for NetOps and Computer Network Defense. Provided technical analysis and recommendations on US Cyber Command Implementation Plan. Participated in US Strategic Command and US Joint Forces Command hosted Cyber Defense Limited Objective Experiments for cyberspace operations research. Provided technical analysis and conducted Joint Staff Web 2.0 use study to support the development of DoD-wide social networking services policy. Reviewed over 100 technical program documentation exhibits to conduct Interoperability and Supportability/Net-Ready Key Performance Parameter Readiness assessments in accordance with CJCS Instruction 6212.01.</p> <p><i>FY 2010 Plans:</i> Develop Global Information Grid (GIG) and cyberspace strategy, planning guidance, policy, doctrine, implementation plans, and related courses of action, concepts of operations, standard operating procedures, and tactics, techniques and procedures. Conduct research and develop in collecting, coordinating, implementing, and executing requirements provided by the joint warfighting community</p>					

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B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>to include ensure warfighting applicability for secure and efficient GIG operations and defense. Provide Systems Engineering and Enterprise Architecture support facilitating the development, management, operation and defense of the GIG and GIG 2.0 efforts, including but not limited to Joint Basing and DoD Data Standards and Strategy. Execution of acquisition responsibilities inherent to cyberspace operations and GIG development, operations and defense to include conducting research and analysis to develop specific and actionable recommendations for implementing Internet Protocol, Version 6 (IPv6), Unified Capabilities (converged networking), and capabilities for conducting computer network operations and information assurance. Execute operations in cyberspace by participating in the design, development, implementation and execution of cyberspace experiments, exercises, tactical decision games, and war games to ensure the inclusion and appropriateness of information assurance, network operations and computer network operations objectives, goals, and activities. Research and facilitate the automation of Joint Staff information/business processes by providing reports on current and evolving techniques, technologies, security-related information capabilities, knowledge management and collaboration resources to include Web 2.0, Service Oriented Architecture, and enterprise capabilities for messaging, content management and knowledge management. Conduct GIG Interoperability and Supportability assessments of capabilities submitted for processing through JCIDS in accordance with applicable DOD and CJCS directives and instructions, including the CJCS Instruction 6212.01 series. Conduct research and development in support of the GIG requirements and the Joint Capabilities Integration Development System Process. Conduct technical coordination with Offices of the Secretary of Defense, all Combatant Commands, Services, Agencies (CC/S/A), the Defense Information Systems Agency, the National Intelligence community, and specified information sharing and mission partners.</p> <p><i>FY 2011 Base Plans:</i> Conduct technical analysis to develop Global Information Grid (GIG) and cyberspace strategy, planning guidance, policy, doctrine, implementation plans, and related courses of action, concepts of operations, standard operating procedures, and tactics, techniques and procedures. Conduct technical</p>					

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B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>research and development to collect, coordinate, implement, and execute requirements provided by the joint warfighting community to include ensure warfighting applicability for secure and efficient GIG operations and defense. Facilitate the development, management, operation and defense of the GIG and GIG 2.0 efforts, including but not limited to Joint Basing and DoD Data Standards and Strategy. Conduct analysis and recommendations in executing operations in cyberspace by participating in the design, development, implementation and execution of cyberspace experiments, exercises, tactical decision games, and war games to ensure the inclusion and appropriateness of information assurance, network operations and computer network operations objectives, goals, and activities. Conduct technical computer network operations, NetOps, and information assurance and planning to integrate into force management processes and operational plans and orders. Conduct studies and provide white papers, problem statements, and support the development of new GIG and cyberspace operating concepts. Conduct GIG Interoperability and Supportability assessments of capabilities submitted for processing through JCIDS in accordance with applicable DOD and CJCS directives and instructions, including the CJCS Instruction 6212.01 series. Participate in the development, implementation, and execution of GIG network management, configuration management, network defense, information assurance, and network visualization solutions. Develop, prioritize, prototype, and implement technical solutions to enable rapid and efficient decision-making. Provide technical analysis for implementing and deploying Voice over IP (VoIP), Voice over Security IP (VoSIP), and everything over IP (EoIP) capabilities to OSD, Joint Staff and CC/S/A as well as other DoD mission partners. Conduct technical coordination with Offices of the Secretary of Defense, all Combatant Commands, Services, Agencies (CC/S/A), the Defense Information Systems Agency, the National Intelligence community, and specified information sharing and mission partners.</p>					
Accomplishments/Planned Programs Subtotals	0.331	0.866	0.886	0.000	0.886

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APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	PE 0303149J: <i>Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW)</i>	P001: <i>Communication Requirements Development Support</i>

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
P002: <i>Coalition Warrior Interoperability Demo</i>	1.352	1.672	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles			0		0	0	0	0	0		

A. Mission Description and Budget Item Justification

The Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW) vision evolved into the Department's Global Information Grid (GIG) as a means to achieve Information Superiority. The GIG is the globally interconnected, end-to-end set of information capabilities, associated processes, and personnel for collecting, processing, storing, disseminating and managing information on-demand to warfighters, policy makers, and support personnel. The GIG includes all owned and leased communications and computing systems and services, software (including applications), data, security services, and other associated services necessary to achieve Information Superiority. It also includes National Security Systems as defined in section 5142 of the Clinger-Cohen Act of 1996. The GIG supports all DOD, National Security, and related Intelligence Community missions and functions (strategic, operational, tactical and business), in war and in peace. The GIG also provides capabilities from all operating locations (bases, posts, camps, stations, facilities, mobile platforms, and deployed sites). Finally, the GIG provides interfaces to coalition, allied, and non-DOD users and systems.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Coalition Warrior Interoperability Demonstration	1.352	1.672	0.000	0.000	0.000
The Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW) program evolved into the Department's Global Information Grid (GIG) as a means to achieve information superiority. Coalition Warrior Interoperability Demonstration (CWID) provides focus and visibility into resolving joint, coalition, and national civil authority C4 interoperability issues and provides organizing principles, techniques, and procedures for achieving information superiority as envisioned by Joint Vision 2020. The GIG stresses interoperability and CWID leverages the rapid pace of C4 technology advancements. CWID is the Chairman's annual event that enables the US					

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B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p>combatant commands, national civil authorities, and international community to investigate command control, communications, computers, intelligence, surveillance and reconnaissance (C4ISR) solutions that focus on relevant and timely objectives for enhancing coalition interoperability and exploring new partnerships. CWID is conducted in a simulated operational environment to provide context for warfighter and national civil authorities' validation of those solutions. Interoperability Trials (ITs) are the activities used to address the core coalition and interagency interoperability objectives selected each year. ITs strive to address warfighter requirements and interoperability deficiencies. The selection of trials is dependent upon the annual overarching objectives, the host combatant command's priorities, Coalition/State/Agency desires to partner in a proposed trial, interagency participation, and the desires of invited coalition participants. CWID is an integral component of the JV 2020 conceptual template.</p> <p><i>FY 2009 Accomplishments:</i> Completed a revision update to CWID Instruction CJCSI 6260.01. Conducted day-to-day program operations, six planning conferences/meetings, and demonstration execution. Evaluated 42 technologies and capabilities (many new and emerging) for exchanging information among coalition partners, military services, government agencies, first responders and U.S. combatant commanders. Executed an integrated communication plan across the DoD, Department of Homeland Security and amongst coalition partners resulting in more than 30 Internet stories, several originating from print publications; five broadcast stories; blog discussions, and social networking sites such as Twitter and YouTube.</p> <p><i>FY 2010 Plans:</i> Focus on real world and future problems (i.e. CENTRIX-ISAF). Exploit opportunities for integration and collaboration with CYBERCOM. Evaluate 40 technologies and capabilities (many new and emerging) for exchanging information among coalition partners, military services, government agencies, first responders and U.S. combatant commanders. Investigate capabilities to develop an Information Communication Technologies umbrella for coalition operations to facilitate multinational command</p>					

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B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
and control. Develop criteria/standards for assessing technologies to be measured against for use in a "coalition environment". Conduct day-to-day program operations, six planning conferences/meetings, and demonstration execution. <i>FY 2011 Base Plans:</i> None. This program will transfer to USJFCOM, as directed by the Vice Chairman, in FY2011.								
Accomplishments/Planned Programs Subtotals				1.352	1.672	0.000	0.000	0.000
C. Other Program Funding Summary (\$ in Millions) N/A								
D. Acquisition Strategy N/A								
E. Performance Metrics None. This program will transfer to USJFCOM, as directed by the Vice Chairman, in FY11.								

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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
P003: <i>Communications Operations Analysis and Integration</i>	1.969	1.543	1.375	0.000	1.375	1.428	1.473	1.514	1.511	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW) vision evolved into the Department's Global Information Grid (GIG) as a means to achieve Information Superiority. The GIG is the globally interconnected, end-to-end set of information capabilities, associated processes, and personnel for collecting, processing, storing, disseminating and managing information on-demand to warfighters, policy makers, and support personnel. The GIG includes all owned and leased communications and computing systems and services, software (including applications), data, security services, and other associated services necessary to achieve Information Superiority. It also includes National Security Systems as defined in section 5142 of the Clinger-Cohen Act of 1996. The GIG supports all DOD, National Security, and related Intelligence Community missions and functions (strategic, operational, tactical and business), in war and in peace. The GIG also provides capabilities from all operating locations (bases, posts, camps, stations, facilities, mobile platforms, and deployed sites). Finally, the GIG provides interfaces to coalition, allied, and non-DOD users and systems.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Communications Operations Analysis & Integration Future operations will rely on seamless and fully integrated Satellite Communications and terrestrial Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) systems and networks - all capable of supporting network centric operations. The use of creative analytical methodologies, C4ISR assessment tools, modeling and simulation, functional analysis, architecture development and assessment tools, and other analytical techniques, as appropriate, will help the development of insights and solutions to further evolve to a fully connected, integrated, and interoperable force.	1.969	1.543	1.375	0.000	1.375

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p><i>FY 2009 Accomplishments:</i> Lean Six Sigma review of the Interoperability and Supportability process defined in the Net Ready KPP and CJCSI 6212. Developed the GIG 2.0 CONOPS development of the GIG 2.0 Initial Capabilities Document (ICD). Researched and developed a stand alone Appendix to the GIG 2.0 ICD for performance parameters and metrics for GIG 2.0 capabilities. Developed the GIG 2.0 Implementation Plan and the GIG 2.0 Decision Support Tool (DST). Researched and developed the re-write of the Net Centric Data Strategy Guide.</p> <p><i>FY 2010 Plans:</i> Support the GIG 2.0 Implementation Plan. Develop the GIG 2.0 DST. Build an Interoperability and Supportability (I&S) Process Model. Build a GIG 2.0 Governance Process Model. Complete the Net Centric Data Strategy Guide. Assist in the re-write of the CJCSI 6212 and the Net Ready KPP. Develop the modification of the Net Centric Capability Delivery Increments (CDI) document.</p> <p><i>FY 2011 Base Plans:</i> Produce a Process Model for the JS J6 business processes. Support the implementation of the Interoperability and Supportability (I&S) processes. Support the Cyber Division in the execution of the DOD cyber missions. Support the NC and C2 CPMs in the deliver of capabilities to support the NC CDI. Continue to support the GIG 2.0 processes in the oversight and governance of the GIG.</p>						
Accomplishments/Planned Programs Subtotals		1.969	1.543	1.375	0.000	1.375
C. Other Program Funding Summary (\$ in Millions)						
N/A						
D. Acquisition Strategy						
N/A						

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E. Performance Metrics

Contractor produces written summaries of key Frequency Panel sub-group meetings and preparatory meetings for annual COCOM spectrum management conferences.

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