

**THE JOINT STAFF**  
**Research, Development, Test and Evaluation (RDT&E), Defense-Wide**  
**Fiscal Year (FY) 2010 Budget Estimates**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>		<b>May 2009</b>
Appropriation/Budget Activity: RDT&E, Defense-Wide, Joint Staff 0400/BA 7	R-1 Line Item Nomenclature: 197 0303149J C4I for the Warrior	

Cost(\$ IN Millions)	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
<b>Total PE Cost</b>	3.624	3.652	4.098					
Communications Operations Analysis & Integration	2.272	2.300	2.426					
Coalition Warrior Interoperability Demo	1.352	1.352	1.672					

**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 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 managed by the Joint Staff Command, Control, Communications and Computer Systems Directorate (J-6).

**B. Program Change Summary:**

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
FY 2009 President's Budget	3.624	3.662	3.754
Total Adjustments	0.000	-0.010	0.344
FY 2010 Budget Estimate	3.624	3.652	4.098

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>		<b>May 2009</b>
Appropriation/Budget Activity: RDT&E, Defense-Wide, Joint Staff 0400/BA 7	PE 0303149J Project Name: Communications Operations Analysis and Integration	

Cost(\$ IN Millions)	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Communications Operations Analysis & Integration	2.272	2.300	2.426					

**A. Mission Description and Budget Item Justification:**

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.

**B. Accomplishments/Planned Program:**

**FY 2008 Accomplishments:** Supported the analytical methodologies, C4ISR assessment tools, modeling and simulation, functional analysis, architecture development and assessment tools, and other analytical techniques, as appropriate, developed the insights and solutions to further evolve to a fully connected, integrated, and interoperable force.

**FY 2009 Planned Programs:** Continued support to the 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.

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>		<b>May 2009</b>
Appropriation/Budget Activity: RDT&E, Defense-Wide, Joint Staff 0400/BA 7	PE 0303149J Project Name: Communications Operations Analysis and Integration	

**FY 2010 Planned Programs:** Continue support to the analytical methodologies, C4ISR assessment tools, modeling and simulation, functional analysis, architecture development and assessment tools, and other analytical techniques, as appropriate, to foster the development of insights and solutions to further evolve to a fully connected, integrated, and interoperable force.

**C. Other Program Funding Summary:**

No other funding.

**D. Acquisition Strategy:**

N/A

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**Exhibit R-3, Project Cost Analysis**

**May 2009**

APPROPRIATION/BUDGET ACTIVITY				Program Element					Project Name and Number			
RDT&E, Defense-Wide, Joint Staff 0400/BA 7				0303149J					Communications Operations Analysis and Integration			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PYS Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
<b>Support</b>												
FFRDC Studies	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Contracted Studies	MIPR	Var	2.190	2.272	May 08	2.300	TBD	2.426	TBD	TBD	TBD	TBD
<b>Subtotal Support</b>			<b>2.190</b>	<b>2.272</b>		<b>2.300</b>		<b>2.426</b>				
<b>Remarks:</b> N/A												
<b>TOTAL COST</b>												
			<b>2.190</b>	<b>2.272</b>		<b>2.300</b>		<b>2.426</b>				

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<b>Exhibit R-2a, RDT&amp;E Project Justification</b>		<b>May 2009</b>
Appropriation/Budget Activity: RDT&E, Defense-Wide, Joint Staff 0400/BA 7	PE 0303149J Project Name: Coalition Warrior Interoperability Demo	

Cost(\$ IN Millions)	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Coalition Warrior Interoperability Demo	1.352	1.352	1.672					

**A. Mission Description and Budget Item Justification:**

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 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.

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**B. Accomplishments/Planned Program:**

**FY 2008 Accomplishments:** Funding enabled U.S. Northern Command (USNORTHCOM) analytic suite hardware/software enhancements, and development of new engineering modeling tools and graphics display tools to support critical homeland defense, civil support and consequence management analyses. This capability allows multiple Combatant Command (COCOM) user access to specific software tools and databases, promoting model and file sharing between analysts. This will leverage the analytic capability to support a number of critical assessment areas including: Wide area surveillance (land, air & maritime), missile defense scenarios, Chemical, Biological, Radiological, Nuclear, and High Yield Explosive (CBRNE) dispersion effects, flight path vulnerability to MANPADs, and infectious disease spread/consequence management.

**FY 2009 Planned Program:** Funding profile supports enhancements to the Synthetic Environments for Analysis and Simulation (SEAS) model. Funds will continue upgrades and development to allow for modeling all Combatant Command (COCOM) areas of operation and will enable SEAS to be used as a course of action (COA) analysis mechanism to inform COCOM operational needs assessments (ONA). SEAS is a simulation that models aspects of the economy, including government, competition, and public and foreign policy. Selected artificial agents may be given leadership traits, which would influence other sub-models within SEAS. SEAS is capable of determining the impact of Diplomatic, Information, and Economic (D, I&E) effects on social behavior and systems.

**FY 2010 Planned Program:** Funding profile supports enhancements to the Synthetic Environments for Analysis and Simulation (SEAS) model. Funds will continue upgrades and development to allow for modeling all Combatant Command (COCOM) areas of operation and will enable SEAS to be used as a course of action (COA) analysis mechanism to inform COCOM operational needs assessments (ONA).

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Appropriation/Budget Activity: RDT&E, Defense-Wide, Joint Staff 0400/BA 7	PE 0303149J Project Name: Coalition Warrior Interoperability Demo	

**C. Other Program Funding Summary:**

	<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>FY 2014</u>	<u>FY 2015</u>	<u>TO</u>	<u>TOTAL</u>
									<u>Complete</u>	<u>Cost</u>
Operation & Maintenance	0.713	0.750	0.773							
Procurement	0.277	0.276	0.000							

**D. Acquisition Strategy:**

N/A

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APPROPRIATION/BUDGET ACTIVITY				Program Element					Project Name and Number			
RDT&E, Defense-Wide, Joint Staff 0400/BA 7				0303149J					Coalition Warrior Interoperability Demo			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PYS Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
<b>Management Services</b>												
Contract Engineering and Tech Support	FP	Various	1.353	1.352	Apr 08	1.352	TDB	1.672	TBD	TBD	TBD	TBD
<b>Subtotal Support</b>			<b>1.353</b>	<b>1.352</b>		<b>1.352</b>		<b>1.672</b>				
<b>Remarks:</b> N/A												
<b>TOTAL COST</b>			<b>1.353</b>	<b>1.352</b>		<b>1.352</b>		<b>1.672</b>				