

THE JOINT STAFF
Research, Development, Test and Evaluation (RDT&E), Defense-Wide
Fiscal Year (FY) 2009 Budget Estimates

Exhibit R-2, RDT&E Budget Item Justification		February 2008
Appropriation/Budget Activity: RDT&E, Defense-Wide, Joint Staff 0400/BA 7	R-1 Line Item Nomenclature: 187 0303149J C4I for the Warrior	

Cost(\$ IN Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	3.543	3.624	3.662	3.754	3.847	3.932	4.018
Communications Operations Analysis & Integration	2.190	2.272	2.310	2.365	2.421	2.475	2.528
Coalition Warrior Interoperability Demo	1.353	1.352	1.352	1.389	1.426	1.457	1.489

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 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY 2008 President's Budget	3.543	3.624	3.662
Total Adjustments	0.000	0.000	0.000
FY 2009 Budget Estimate	3.543	3.624	3.662

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Exhibit R-2a, RDT&E Project Justification		February 2008
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 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Communications Operations Analysis & Integration	2.190	2.272	2.310	2.365	2.421	2.475	2.528

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. Solutions may include new C4ISR systems and networks, new technological integration into legacy systems, and integrated use of systems and networks to transform operations into a more fluid choice of capabilities across the spectrum of possible military actions and scenarios.

B. Accomplishments/Planned Program:

FY 2007 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 2008/2009 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

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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

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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 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Support												
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	1.769	2.190	Jul 07	2.272	May 08	2.310	TBD	TBD	TBD	TBD
Subtotal Support			1.769	2.190		2.272		2.310				
Remarks: N/A												
TOTAL COST			1.769	2.190		2.272		2.310				

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Exhibit R-2a, RDT&E Project Justification		February 2008
Appropriation/Budget Activity: RDT&E, Defense-Wide, Joint Staff 0400/BA 7	PE 0303149J Project Name: Coalition Warrior Interoperability Demo	

Cost(\$ IN Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Coalition Warrior Interoperability Demo	1.353	1.352	1.352	1.389	1.426	1.457	1.489

A. Mission Description and Budget Item Justification:

The Command, Control, Communications, Computers, and Intelligence for the Warrior (C4IFTW) program has 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 (JV) 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 2007 Accomplishments: Funding supported U.S. Southern Command (USSOUTHCOM) J7 Transformation, Wargaming and Reach Back Center (WRB). Funds procured Modeling, Simulation and Analysis (MS&A) tools and analysis in support of USSOUTHCOM SCJ7 Directorate of Transformation, which is fully engaged in DoD transformational initiatives. This effort assisted in creating a facility that will interface with other Regional Command and Control (RCC) centers, Joint National Training Capability, Joint Forces Command (JFCOM) and local exercises as well as serve as the center for Standing Joint Force Headquarters (SJFHQ) training support.

FY 2008 Planned Program: Funding will support 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 will allow multiple Combatant Command (COCOM) user access to specific software tools and databases, allowing 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 supports enhancements to the Synthetic Environments for Analysis and Simulation (SEAS) model. Funds will support 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,

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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.

C. Other Program Funding Summary:

	<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>
Operation & Maintenance	0.645	0.755	0.755	0.773	0.791	0.808	0.826	0.000	5.353
Procurement	0.000	0.277	0.276	0.283	0.289	0.295	0.302	0.000	1.722

D. Acquisition Strategy:

N/A

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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 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Management Services												
Contract Engineering and Tech Support	FP	Various	1.309	1.353	Apr 07	1.352	Apr 08	1.352	TBD	TBD	TBD	TBD
Subtotal Support			1.309	1.353		1.352		1.352				
Remarks: N/A												
TOTAL COST			1.309	1.353		1.352		1.352				