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**OSD RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)**

Date: February 2006

APPROPRIATION/ BUDGET ACTIVITY  
RDT&E/ Defense Wide BA# 4

PE NUMBER AND TITLE

**0603923D8Z - Coalition Warfare**

Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total Program Element (PE) Cost	5.643	5.685	5.878	6.047	5.953	6.069	6.202
0603923D8Z Coalition Warfare	5.643	5.685	5.878	6.047	5.953	6.069	6.202

**A. Mission Description and Budget Item Justification:** The Coalition Warfare (CW) initiative is the only OSD Program dedicated to initiate cooperative research and development projects with allies and coalition partners. The goal of the effort is to assist the Combatant Commands, Services, and Agencies with integrating coalition-enabling solutions into existing and planned US programs. This adds value to the Department's overall international cooperation strategy by providing resources for the U.S. portion of bilateral and multilateral development projects aimed at improving interoperability with allies and other likely coalition partners.

Fighting the war on terrorism and coping with the new and emerging threat paradigms have highlighted coalition warfare issues on the radar screens of policy makers and senior leaders throughout the U.S. Government. Coalitions are and will be the standard means for addressing international crises, lending political legitimacy and providing resources that mitigate U.S. financial, materiel and personnel burdens (OPTEMPO). Interoperability gaps between and among coalition partners have compromised operational effectiveness and jeopardized force protection (e.g., fratricidal incidents). For example, recent tragedies linked to fratricide or friendly fire in OEF and OIF have brought on-going efforts in combat identification (CID) programs to the highest level of CW support and interest. By providing the necessary financial support, CW internationalized the Coalition Combat Identification Advanced Concept Technology Demonstration (ACTD) and the Coalition Blue Force Situational Awareness ACTD (FY 2004-FY 2005 project). Both U.S. and foreign technologies and research may be applied to improve fielded coalition capabilities.

Cooperative efforts with likely coalition partners are needed to close interoperability gaps include battlespace awareness, C4ISR, joint fires, intelligence fusion and data sharing, combat identification, logistics, weapon systems and information sharing capabilities. Moreover, these small investments early in the R&D process yield large dividends (e.g., Joint Strike Fighter). The CW initiative leverages foreign and other U.S. investment in ongoing projects by adding coalition-related enhancements that would otherwise not be realized. The OSD CW initiative encourages PMs and PEOs to involve friendly countries as well as Allies in cooperative development projects to the extent permitted by security considerations (classified data and critical technology), when such partnering is advantageous to the U.S. Government and necessary in terms of regional threat scenarios.

The CW approach to cooperative RDA projects is consistent with OSD-articulated, preferred methodologies: spiral development and evolutionary acquisition (i.e., getting solution-oriented, threshold-capabilities into the hands of the coalition warfighter quickly). Projects benefiting from CW funding fall into one of two categories: those for which the CW funds no more than 50% of the coalition-directed portion, with foreign contributions making up the difference; and those involving CW funding of coalition-oriented features of U.S.-only projects. Priority is given, in both categories, to initiatives offering potential solutions to interoperability issues that can be leveraged across multiple Combatant Commands.

The Combatant Commands, Services, Defense Agencies, and OSD nominate candidate projects on a yearly cycle. These projects are funded for one to two years. OSD selects projects based on their compatibility with established CW criteria: meeting the needs and requirements specified by the warfighter, funding commitments of international partners, potential for leveraging results across multiple Combatant Commands, addressing potential risks related to security and controlled technology, responsiveness to USD (AT&L) priorities for international armaments cooperation (e.g., maritime domain awareness, joint and coalition experimentation and coalition logistics).

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<b>B. Program Change Summary</b>	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2006)	5.749	5.777	5.787
Current BES/President's Budget (FY 2007)	5.643	5.685	5.878
Total Adjustments	-0.106	-0.092	0.091
Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer	-0.106		
Other		-0.092	0.091

<b>C. Other Program Funding Summary</b>	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
Coalition Blue Force Situational Awareness	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.375
Mode V IFF/ Mark XII	0.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.650
Navigational Warfare Electronic Support UAV (NAVWAR ES)	0.478	0.472	0.000	0.000	0.000	0.000	0.000	0.000	0.950
Leadership, Commander's Intent and Operational Readiness	0.125	0.125	0.000	0.000	0.000	0.000	0.000	0.000	0.250
Coalition Fires Interoperability	0.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.600
Subnet Relay	0.425	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.425
Network Centric Mapping Database	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250
Multi-Level Thin Client	0.623	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.623
US-Korea Battle Simulation Model	0.000	0.316	0.316	0.000	0.000	0.000	0.000	0.000	0.632
Coalition Communications Interoperability Guide	0.500	0.500	0.000	0.000	0.000	0.000	0.000	0.000	1.000
Allied Wide Area Network RF Controller	0.527	0.360	0.000	0.000	0.000	0.000	0.000	0.000	0.887
Metrification of Littorals Demo	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250
CW Roadmap	0.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.300
Maritime Domain Awareness Conference	0.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.100

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CW Support	0.383	0.426	0.430	0.000	0.000	0.000	0.000	0.000	1.239
Collaborative Engagement in Logistics	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007
Coalition Logistics Decision Support Capability	0.050	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050
Small Boat Modeling and Validation	0.000	0.400	0.400	0.000	0.000	0.000	0.000	0.000	0.800
Coalition Airspace Management and Deconfliction	0.000	0.275	0.275	0.000	0.000	0.000	0.000	0.000	0.550
Over the Horizon Tactical Tracking System	0.000	0.240	0.000	0.000	0.000	0.000	0.000	0.000	0.240
GLIDE	0.000	0.500	0.500	0.000	0.000	0.000	0.000	0.000	1.000
Maritime Coalition Interoperability - Coalition DEP	0.000	0.995	0.395	0.000	0.000	0.000	0.000	0.000	1.390
Global Coalition In-Transit Visibility Network	0.000	0.416	0.416	0.000	0.000	0.000	0.000	0.000	0.832
Maritime Information Exchange	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.000	0.500
Collaborative Initiatives	0.000	0.410	0.493	0.000	0.000	0.000	0.000	0.000	0.903
FY07-08 New Starts	0.000	0.000	2.312	0.000	0.000	0.000	0.000	0.000	2.312

Comment:

**D. Acquisition Strategy:** Not Applicable.**E. Performance Metrics:** Not Applicable.

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