

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

**February 2008**

APPROPRIATION/ BUDGET ACTIVITY  
**RDTE, Defense Wide BA 03**

PE NUMBER AND TITLE  
**0603727D8Z - Joint Warfighting**

COST (\$ in Millions)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate
P727 Joint Warfighting	10.328	10.964	11.098	11.339	11.509	11.662	11.826

**A. Mission Description and Budget Item Justification:** Centralized funding for Defense Joint Experiment (JE) was established in FY 2000 in Navy PE 060372N. US Joint Forces Command (USJFCOM) was designated as executive agent for this funding. A smaller residual analysis and experimentation support account for was deliberately maintained under the aegis of the Office of the Director, Defense Research & Engineering (DDR&E) to provide leverage over the larger USJFCOM account, and to establish an independent capability for joint warfare analysis. This OSD Joint Warfighting Program (JWP) account supports the Joint Advanced Warfighting Program (JAWP) and directly empowers joint commanders' ability to conduct analysis and experimental concept development.

The Joint Advanced Warfighting Program (JAWP) is strongly supported by the Office of the Secretary of Defense (OSD) Policy and AT&L, with the continuing concurrence of the Joint Staff (J7) to serve as a catalyst for critical analysis and development of innovative concepts on an accelerated basis. This program fuses a team of civilian operational analysis experts with mid-grade and senior military officers to provide first-hand research into topics of pivotal importance to current and future joint campaigns. These analyses serve as a basis for formulation and assessment of advanced concepts and capabilities, identifying enabling technologies and operational integration options for the Department. Resultant concepts drive changes in the doctrine, organization, training, materiel, leadership, personnel, and facilities (DOTMLPF) of the Services. The JAWP serves an essential, expert, and independent feedback role in identifying, exploring and evaluating breakthrough war fighting capabilities. It captures and builds on lessons learned from joint contingency operations and earlier joint and Service experimentation. From that foundation, it identifies and helps formulate advanced joint concepts, explores their effectiveness by recommending design and conduct of joint experiments, and helps streamline implementation processes. Its work complements and supports the activities of Joint Forces Command, the Joint Staff, Combatant Commanders (CoComs), and the office of the Secretary of Defense (OSD).

An invigorated Defense enterprise for joint experimentation is a fundamental element of joint capability development. Elements of the JWP assist COCOMs to specify operational needs and examine capability gap alternatives. The JWP also directly funds COCOMs specific operational needs and examine capability gap alternatives. The processes assess military contingency operations and formulate advanced joint concepts to be tested and refined via experiments, doctrine development, and demonstrations. The JWP directly enfranchises the Combatant Commanders (COCOMS) to employ capabilities for mission needs analysis and joint experimentation. This JWP investment strategy expands earlier practice of offsetting costs for Defense Adaptive Red Team/DART services to the COCOMS. It aims to reinvigorate COCOM staff capabilities to employ rigorous analysis and experimentation methodologies in support of their specific mission assignments. By empowering COCOM staffs to critically assess their own needs and examine viable capability gap solutions, the JWP aims to focus larger research and development investments, like Joint Experimentation and Joint Capability Technology Demonstrations to specific warfighter requirements. The JWP enables joint commanders to conduct limited objective experiments in theater that explore capability gaps and potential capability solutions unique to their mission set. The JWP is intended to be seed funding encouraging leveraged employment of existing Defense analysis and experimentation infrastructure such as networked access to the centralized Joint Futures Laboratory facilities at U.S. Joint Forces Command in Virginia. This approach minimizes redundant investment, strengthens the relevance of Defense analysis and experimentation projects, and diversifies the range of solutions considered for pursuit by the Department.

The Defense Adaptive Red Team/DART effort evolved into an expanded effort to assist COCOMs with analysis and experimentation services tuned to their respective mission needs. DART met its objectives as a springboard to enfranchise COCOMs with a voice in Defense analysis and experimentation. Likewise, Technology Feeder Support (TFS) was a separate fund segment supporting COCOM internal analysis and experimentation technology needs. Both DART and TFS are now incorporated into the larger Joint Warfighting Program.

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<b><u>B. Program Change Summary</u></b>	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2008)	10.580	11.060	11.120
Current BES/President's Budget (FY 2009)	10.328	10.964	11.098
Total Adjustments	-0.252	-0.096	-0.022
Congressional Program Reductions		-0.096	
Congressional Rescissions			
Congressional Increases			
Reprogrammings	-0.250		
SBIR/STTR Transfer	-0.296		
Other	0.294		-0.022

**C. Other Program Funding Summary** Not applicable for this item.

**D. Acquisition Strategy** Not applicable for this item.

**E. Performance Metrics:**

FY	Strategic Goals Supported	Existing Baseline	Planned Performance Improvement / Requirement Goal	Actual Performance Improvement	Planned Performance Metric / Methods of Measurement	Actual Performance Metric / Methods of Measurement
08						

Comment: Performance of Joint Experimentation systems is measured through metrics including (1) objective validation of enhanced CoCom capabilities to perform joint missions in their assigned theaters and areas of responsibility, (2) documented delivery effective joint operational concepts, (3) confirmed production of refined and validated capability descriptions.

# OSD RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

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<b>APPROPRIATION/ BUDGET ACTIVITY</b> <b>RDTE, Defense Wide BA 03</b>		<b>PE NUMBER AND TITLE</b> <b>0603727D8Z - Joint Warfighting</b>					<b>PROJECT</b> <b>P727</b>	
COST (\$ in Millions)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	
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PROJECT  
**P727**

**B. Accomplishments/Planned Program:**

**Accomplishments/Planned Program Title:**

FY 2007

FY 2008

FY 2009

Joint Advanced Warfighting Program (JAWP):

5.850

5.500

5.707

JAWP serves as a catalyst for innovation and change. This effort focuses on formulation and assessment of advanced concepts and capabilities, plus identifying enabling technologies and integration options for the Department. Annual JAWP activities are reviewed and approved by a Board of Directors chaired by USJFCOM, including Joint Staff (J7), and OUSD(Policy).

FY 2007 Accomplishments - The JAWP continued support of full spectrum transformation objectives addressing irregular, catastrophic, and disruptive challenges. It will design, conduct, and support joint experimentation, joint concept development, and analysis of joint operations, with the intent to inform and effect resource allocation and acquisition. It will continue efforts to align Department processes in ways that make them more responsive to the needs of CoComs and their subordinate forces. Topics analyzed in FY07 include:

- Iraqi Perspectives (Customer: US Joint Forces Command Joint Center for Operations Analyses Lessons Learned (USJFCOM JCOA-LL) continuing effort. Exploited Harmony database to identify what Sadaam's regime knew about neighboring countries' activities and capabilities, how he evaded sanctions, etc.
- Global War on Terrorism Africa (Customers: USJFCOM JCOA-LL). Building on previous work on interagency interplay in the Global War on Terror and its effect in the Horn of Africa, visit US embassies in Central Africa to identify opportunities and weaknesses in how the interagency works in areas where there are no US forces or military infrastructure. Use the effort to help inform the mission and organization of AFRICOM.
- Terrorist Perspectives Customers: USJFCOM JCOA-LL) continuing effort. Building on FY06 work on identifying schisms in Salafist jihadist discourse, formulate a draft strategy for exploiting enemy cleavages.
- Support to Multinational Force Iraq (Customer: Multi-National Force Iraq) continuing effort. Organize, conduct and report the results of expert panels, exploring issues identified by MNF-I.
- Improving Capabilities for Irregular Warfare (Customer: OSD, USJFCOM). Building on related FY06 work, identify capabilities needed to conduct an effective Irregular Warfare campaign, with particular emphasis on technologies. Include metrics for measuring effectiveness of DOTMLP alternatives.
- Urban Resolve Experimentation (Customer: USJFCOM) continuing effort. Provide subject matter experts and mentorship support to USJFCOM leaders of Urban Resolve-Future, Current Operations, and Homeland Defense experiments.
- Adaptive Planning (Customer: OSD, USJFCOM). Building on DoD's Adaptive Planning Roadmap and leveraging IDA experience with COCOM support and Linking Plans to Resources, identify opportunities for accelerating joint planning, making Joint planning more adaptive, and ensuring planning processes are mutually support.
- Joint Command and Control Management (Customer: Joint Staff, USJFCOM). Assist JFCOM in managing its new JC2 Portfolio Manager role by identifying the authorities, responsibilities, and inter-relationships of DoD's JC2 governance structure and recommending an approach for aligning JFCOM activities with that structure.
- Joint Command and Control Combat Development (Customer: USJFCOM). Assist JFCOM in addressing emerging JC2 combat development opportunities and challenges by identifying ways to de-conflict JC2-specific doctrine, strengthen operations-intelligence interface, target promising JC2 enablers for quick fielding, and developing a process for forming CJTFs with coalition partners.
- Fallujah Battle Reconstruction (MNF-I, JFCOM). Continuation of the battle's reconstruction, complying with GEN Casey's guidance to turn the endeavor into an interactive training tool, exploiting gaming technology.

FY 2008 Planned Output - The JAWP will continue support of full spectrum transformation objectives addressing irregular, catastrophic, and disruptive challenges. It will design, conduct, and support joint experimentation, joint concept development, and analysis of joint operations, with the intent to inform and effect resource allocation and acquisition. It will continue efforts to align Department processes in ways that make them more responsive to the needs of CoComs and their subordinate forces.

<b>OSD RDT&amp;E BUDGET ITEM JUSTIFICATION (R2a Exhibit)</b>		<b>February 2008</b>		
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<b>RDTE, Defense Wide BA 03</b>	<b>0603727D8Z - Joint Warfighting</b>	<b>P727</b>		
FY 2009 Planned Output - The JAWP will continue support of full spectrum transformation objectives addressing irregular, catastrophic, and disruptive challenges. It will design, conduct, and support joint experimentation, joint concept development, and analysis of joint operations, with the intent to inform and effect resource allocation and acquisition. It will continue efforts to align Department processes in ways that make them more responsive to the needs of CoComs and their subordinate forces and coalition partners.				
<b><u>Accomplishments/Planned Program Title:</u></b>		<b><u>FY 2007</u></b>	<b><u>FY 2008</u></b>	<b><u>FY 2009</u></b>
Technology Feeder Support (TFS):		3.061		
TFS activities support Combatant Commanders (CoComs) by promoting the use of joint experimentation to address challenges specific to their theater or functional missions. TFS provides a "trial and error" experiment to understand a concept or technology that addresses a specific CoCom challenge." TFS activities are selected through an annual candidate nomination review and selection process.				
FY 2007 Accomplishments: TFS continued to provide resources to CoComs for joint experimentation that addresses regional capability gaps and improves understanding of new technologies and concepts. Develop concepts for Joint Capabilities Technology Demonstration projects. A special request from US Pacific Command to re-establish a regional joint experimentation capability received early funding from FY07 program resources. Program objectives were achieved.				
FY 2008 and beyond Planned Output - Program segment purposes achieved; funding transitioned into COCOM Analysis and Defense Experimentation Support, building on the success of the DART effort.				
<b><u>Accomplishments/Planned Program Title:</u></b>		<b><u>FY 2007</u></b>	<b><u>FY 2008</u></b>	<b><u>FY 2009</u></b>
DoD Adaptive Red Team (DART):		1.417		
DART supports four activities: (1) planning implementation of JFCOM and Joint Staff Concept Development and Experimentation (CD&E); (2) Support to other CoCOMs; (3) Support development of technologies and operational concepts underpinning joint and coalition capabilities; and (4) development and refinement of red teaming best practices. DART activities are selected through an annual candidate nomination review and selection process.				
FY 2007 Accomplishments: The DART staff completed the multi-year efforts in FY07. DART continued to support the CoComs, JAWP and the Joint Staff concept development and experimentation efforts. Best practices and Senior Advisory Group activities were completed. Specific projects executed include: - Unmanned Air Vehicle Precision View assessment of alternative concepts for pixel registration and operational impact (Customer: US Strategic Command). - Crisis Management in Peace Keeping Operations exercise development and execution red cell (Customer: US Southern Command). - Joint Operations Concept red teaming (Customer: Joint Staff) continuing effort. Program objectives were achieved.				
FY 2008 and Outyears Planned Output - Program segment purposes achieved; funding transitioned into COCOM Analysis and Defense Experimentation Support, building on the success of the DART effort.				
<b><u>Accomplishments/Planned Program Title:</u></b>		<b><u>FY 2007</u></b>	<b><u>FY 2008</u></b>	<b><u>FY 2009</u></b>
Combatant Commander Analysis and Defense Experimentation Support			5.464	5.391

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FY08 Planned Output: Support Combatant Commanders (COCOMs) by promoting the use of joint experimentation to address challenges specific to their theater or functional missions. Funds will be used to assess regional capability gaps and improves understanding of new technologies and concepts. Develop concepts for Joint Capabilities Technology Demonstration projects.

FY 2009 Planned Output - Continue to provide resources to CoComs for joint experimentation that addresses regional capability gaps and improves understanding of new technologies and concepts. Develop concepts for Joint Capabilities Technology Demonstration projects.

**C. Other Program Funding Summary** Not applicable for this item.

**D. Acquisition Strategy** Not applicable for this item.

**E. Major Performers** Not applicable for this item.