

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

May 2009

APPROPRIATION/ BUDGET ACTIVITY  
**RDTE, Defense Wide BA# 6**

PE NUMBER AND TITLE  
**0605799D8Z - Emerging Capabilities**

COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate				
P799 Emerging Capabilities	19.908	23.073	19.981				

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

This funding request supports the development of emerging capabilities under the Directorate of Defense Research & Engineering's Rapid Reaction Technology Office (RRTO). These funds are used to advance interagency capabilities in mutual areas of interest through focused partnerships and projects with other federal departments and agencies. In addition to supporting interagency cooperation, this PE incubates selected concepts and technologies of interest to joint warfighters and their interagency partners to provide mature options as capability needs emerge in and beyond the FYDP. This includes developing risk-reducing prototypes to demonstrate capabilities in response to joint warfighter and interagency partners' shared requirements; and informing the Joint Capabilities Integration & Development System and acquisition system through technical demonstrations. Individual projects are developed and funded over three to five years with interagency partners and generally do not include stand-alone studies. Funding for this PE permits support for four to five projects per year. Typically, these projects support mid-term irregular warfare needs aligned with those of interagency partners. This program element has evolved from exclusive support of force transformation activities to the activities described above, more closely aligned with departmental goals.

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<b><u>B. Program Change Summary</u></b>	FY 2008	FY 2009	FY 2010	
Previous President's Budget (FY 2008/2009)	20.407	20.701	21.361	
Current BES/President's Budget (FY 2010)	19.908	23.073	19.981	
Total Adjustments	-0.499	2.372	-1.380	
Congressional Program Reductions				
Congressional Rescissions		-0.128		
Congressional Increases		2.500		
Reprogrammings				
SBIR/STTR Transfer	-0.457			
Other	-0.042		-1.380	

FY 2010 changes reflect executive programmatic adjustments.

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

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

**E. Performance Metrics:** Not Applicable.

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**B. Accomplishments/Planned Program:**

<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Wolf Pack Platoon	5.950	3.000	3.000	

**Project Description:** Wolf Pack is a prototype development project focused on enhancing the combat effectiveness of Army/Marine Corps/coalition small ground units. The project is designed to find, coordinate, integrate, experiment with and test emerging but relatively mature concepts and technologies that can rapidly address current capability gaps. Wolf Pack is intended to act as a force-multiplier for small units and will operate within existing force structure, command, doctrinal and equipment arrangements. The overall Wolf Pack capability combines a variety of mounted and dismounted technologies. Collectively, these technologies can be assigned to one of the following potential subordinate capability elements: Situational Awareness, Communications, Mobility, Force Protection, Direct Fire, Non-Lethal Fires, Surveillance and Target Acquisition (STA), and Biometrics.

**FY 2008 Accomplishments:** During FY 08, multiple small unit enhanced technological capabilities were successfully integrated aboard three different support platforms, to include communications, target acquisition, lethal and non-lethal weapons, force protection, mobility, and biometrics. Two month-long field tests of this prototype equipment were conducted at Twenty-nine Palms, California, in support of the US Army, US Marine Corps, and coalition partners. Additionally, a relationship with the US Army was established to transition selected elements of the Wolf Pack equipment suite onto existing US Army vehicle platforms.

**FY 2009 Accomplishments and Plans:** During FY 09, Project Wolf Pack's main effort is the successful transition of Wolf Pack equipment to a US Army program of record. Two supporting efforts include an operational demonstration of the Wolf Pack equipment suite during the US Pacific Command coalition exercise TALISMAN SABER 09 (this is not an acronym) and a cooperative field test of Wolf Pack sensors and command and control equipment conducted with US Northern Command in support of the US Customs and Border Patrol Service. Additionally, Project Wolf Pack is executing a field interoperability experiment with the CASSANDRA (this is not an acronym) electronic warfare Joint Concept Technology Demonstration project. At the end of FY 09, Project Wolf Pack will achieve all planned goals, and with the successful transition to the US Army's Mission Enhancement Program, and will close out as an OSD project.

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<u>Accomplishments/Planned Program Title:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Overwatch			4.200	

Project description: Overwatch is a new project, focused specifically on enhancing command and control capabilities for service and interagency small units. It will build upon the ground work and past successes of Project Wolf Pack, but will concentrate on developing immediately useful prototype equipment to provide advanced command and control and enhanced surveillance capabilities originally developed for the military that also have immediate applicability for DHS field units. Based on the capability gaps and stated needs of the services and DHS, this project will also experiment with concepts of operation, tactics, techniques and procedures with special emphasis on command and control and surveillance. Prototype equipment will use a systems approach to integrate open architecture, modular, and mature technology. It will serve to improve interoperability of DOD and interagency partners in field environments.

FY 2010 Plans: Overwatch will focus primarily on enhancing situational awareness and command and control abilities of small units. Using currently available and emerging military and commercial equipment, this project will produce modular, open-architecture prototypes that will immediately support a wide variety of small units across the spectrum of mission environments and can also inform the requirements development and acquisition communities.

<u>Accomplishments/Planned Program Title:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Operationally Responsive Space	1.500			

Project Description: The Operationally Responsive Space (ORS) project is an innovative model to rapidly provide operationally useful information to forces in the field at a lower cost, giving them enhanced power and flexibility to deal with complex and rapidly changing threats. ORS seeks to achieve that by complementing existing space-based capabilities, utilizing commercially-available capabilities, and developing new flexible, networked space capabilities that can be assembled and launched on demand in a cost effective manner. The ORS project funded development of the building blocks for rapid, low-cost systems, such as experimental TacSats; low-cost, partially reusable launch systems; standard "plug and play" satellite buses; and standardized satellite-payload integration. The first ORS prototype, called TacSat-1, was developed in less than a year at a cost of \$15 million, demonstrating the ability to rapidly provide an operationally relevant capability to the warfighter.

FY 2008 Accomplishments: Modified the TacSat-1 satellite with an unclassified "automatic identification system" payload (renamed TACSAT-1A). Completed transitioning activities to the Joint Operationally Responsive Space Office at Kirtland AFB, NM. Completed all 15 Payload Technology Development projects (FY06 \$17M to Naval Research Lab). Delivered Satellite Technology/Standard Bus Recommendations and Plan to the Joint ORS Office.

FY 2009 Accomplishments and Plans: ORS activities are transitioning to the Joint ORS Program Office. No further ORS activities planned with this PE.

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<u>Accomplishments/Planned Program Title:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Tactical Relay Mirror Systems	1.050			

Project Description: The Tactical Relay Mirror System (TRMS) is a joint project with the Air Force Research Laboratory to examine the feasibility of redirecting laser energy by pairing an optical relay mirror system with an airborne platform to significantly extend the range of directed energy for the destruction of potential targets in the air (cruise missiles, ballistic missiles, aircraft) or on the ground. TRMS would provide commanders with enhanced capabilities to communicate, sense, and target beyond the line of sight of air, land or maritime source lasers. Development is focused on converting 15-25Kw lab lasers into fieldable, transportable source lasers for use with a relay mirror to produce tactical effects. Such attributes could be particularly useful in stability operations by U.S. and coalition forces, where threats are dispersed and targets often fleeing.

FY 2008 Accomplishments: During FY 2008, funding from this PE accelerated the TRMS project by about one year with advanced procurement of higher-risk parts. Additionally, further wargaming was conducted with operational users to develop and refine concepts of operations. By the end of FY08, the program was postured to conduct high-power laser tests of the optical path. The Air Force Research Lab has fully embraced the TRMS project so funding for the TRMS project from this PE was completed in FY08 with a service lab taking full ownership of the program.

<u>Accomplishments/Planned Program Title:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Stiletto	2.640	2.500	2.500	

Project description: Stiletto was developed to provide the DOD a dedicated operational Research and Development (R&D) maritime platform. Although the craft incorporates experimental naval architecture to explore the scalability of non-mechanical dynamic lift, carbon fiber construction, and high speed performance for military operations; it is the craft's electronic keel and associated craft characteristics (e.g., covered payload space, UAV flight deck, shallow draft, and ability to easily integrate C4I systems) that provides Stiletto her R&D capability. The electronic keel was designed to be flexible, modular and re-configurable to support near plug-and-play installation of C4I equipment used as part of experimentation. In addition to testing C4I equipment, Stiletto is ideally suited for operational experimentation and has tested unmanned systems, mine clearance sensors, and coastal warfare concepts of operations for various commands and agencies. The Stiletto vessel is homeported in Norfolk, VA.

FY 2008 Accomplishments: During FY 08, Stiletto completed 120 days of operations in support of experimentation for government labs, small businesses and academia. These experiments were conducted on the water off Norfolk, VA and within the United States Southern Command (SOUTHCOM) area of responsibility. Experimentation conducted included testing of unmanned systems, maritime domain awareness sensors, portable communications systems and situational awareness equipment. Several of the tested technologies and systems have been successfully transitioned to the services. Although not designed to be a deployable asset, Stiletto completed a 60-day deployment to Cartagena, Colombia, in support of Joint Interagency Task Force-South (JIATF-S) counter-narcotics operations. During the deployment, Stiletto deterred drug trafficking by removing shallow water sanctuaries favored by small "go-fast" drug-running boats. This deployment also permitted Stiletto to host operational testing of 10 experimental systems and technologies in a real world environment.

FY 2009 Accomplishments and Plans: During FY 09 the Stiletto project is conducting 120 days of operations in support of experimentation for government labs, small businesses and academia. A 90-day JIATF-S counter-narcotics deployment will be completed in the spring of 2009. This deployment is expanding on the interagency cooperation that was established during the FY 08 deployment to Colombia. While Stiletto continues to support its traditional customers, the program is expanding its customer base to other federal agencies. Experiments and testing for DHS civilian law enforcement agencies are scheduled for spring deployment. DEA is providing a boat crew for a portion of the JIATF-S deployment. Additionally, Stiletto is participating in SOUTHCOM's theater security cooperation operations in the eastern Caribbean while deployed. Stiletto is also participating in Project Thunderstorm (see below) during FY09. Several equipment upgrades are enhancing Stiletto's capabilities as both a test bed and as a deployable asset. Stiletto also supports United States Special Operations Command experimentation efforts.

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FY 2010 Plans: The Stiletto project will continue its operational experimentation through FY 10 as well as the identification, design and execution of continued upgrades to Stiletto's equipment and hull; continue supporting combatant command (COCOM), service, and interagency experimentation. Specific experiments with SOUTHCOM are planned and opportunities with US Northern Command will be evaluated.

<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Griffin	1.500			

**Project Description:** The Griffin project will develop a system that autonomously allows multiple unmanned surface vessels (USVs) to perform a mission cooperatively. To accomplish that, the project will develop and install autonomous command and control systems and integrate associated sensors on two current USVs to demonstrate a maritime domain awareness (MDA) task cooperatively. The goal is to provide a system that is capable of supporting a 24-hour patrol mission with minimal human interaction, until a target of interest is identified, at which time the system can either interrogate the target autonomously with its sensors, or request operator support for interacting with the target. This capability will ultimately reduce manning requirements, allowing the tender vessel/station to conduct normal operations while the USV is conducting its assigned mission.

**FY 2008 Accomplishments:** Developed a plan to develop an unmanned surface vessel (USV) with the ability to autonomously operate and cooperate with additional unmanned systems. Finalized design of USV, awarded contracts, and completed modeling and craft construction.

**FY 2009 Accomplishments and Plans:** While the Griffin project will continue in FY09, it is funded under a different program element which is more closely aligned with the objectives of the project. No further funding planned with this PE.

<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Pelican	5.000	10.500	3.681	

**Project Description:** In conjunction with the NASA-Ames Research Center, the Department has undertaken an effort called "Project Pelican" to develop a prototype rigid aeroshell, variable buoyancy air vehicle (RAVB). The Pelican RAVB prototype will demonstrate the technical maturity of a scalable vertical takeoff and landing aircraft. Key technologies to be demonstrated include a buoyancy management system to enable ballast-independent operations, composite lightweight rigid external structure to reduce environmental restrictions, a responsive low-speed/hover control system with associated control algorithms, and a ground handling subsystem to enable operations on unimproved landing surfaces.

The program objective is to mitigate long-term technical risk by integrating and demonstrating a suite of technologies with the potential to reduce operational constraints on future heavy-lift, buoyant-aircraft development programs. If successful, the Pelican prototype will enable the rapid development of a nascent class of air vehicle which will radically reduce the energy use per ton-mile of airlift operations, permit high-payload operations directly into and out of austere regions with little infrastructure, and enable long-endurance manned or unmanned air operations.

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RAVB aircraft appear to be potentially scalable to payloads of 500-1,000 tons (compared with payloads in the 125 ton range for the largest current US airlifters). With cruise speeds of 80-100 knots, RAVB aircraft could surpass by several times the speed of fast sealift. With the potential to operate from land or water with very little infrastructure, RAVB aircraft may also drastically reduce the need for intermodal transportation as cargo moves from origin to point of need, with corresponding reduction in delivery times.

Project Pelican will be conducted over a five-year period with the first three years consisting of vehicle design, analysis, and subsystem prototyping/testing. Year four will involve systems integration and construction with ground and flight testing being conducted in year five.

**FY 2008 Accomplishments:** Conducted design and risk-reduction work in developing a scaled prototype RAVB air vehicle capable of ballast-independent operations. FY08 funding enabled NASA to conduct technical due diligence work and begin conducting risk reduction prototyping efforts on materials, flight control systems, structures, and buoyancy management systems.

**FY 2009 Accomplishments and Plans:** The government Pelican team is conducting a Conceptual Design Review of the proposed RAVB air vehicle during FY09. Additionally, the government team approved the purchase of certain long-lead hardware and materials to enable risk-reducing prototype efforts. The contractor expects to deliver first prototypes and test components for the following critical sub-systems: the primary structural load path, truss frame elements, propulsion unit, buoyancy management components, low speed flight control system, landing system, cockpit layout, and vehicle control units. The rapid prototyping and test efforts underway will inform and shape the FY10 effort.

**FY 2010 Plans:** During FY10, the government team intends to conduct a Preliminary Design Review of proposed RAVB air vehicle. Subsystem component prototyping and test iterations for the above systems will continue with the addition of the pneumatics, fuel, electrical, and avionics subsystems. At the end of FY10, the team will be in a position to conduct the Critical Design Review and begin major system assembly.

<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Thunderstorm		5.000	4.800	

**Project Description:** A follow-on to RRTO's "Bluegrass" efforts, Thunderstorm will establish an enduring Multi-platform, multi-sensor Intelligence Surveillance and Reconnaissance (ISR) test bed using SOUTHCOM's JIATF-S as an operational venue to conduct operational experiments with next generation detection, cueing, monitoring, tracking, and handoff capabilities against asymmetric target sets.

JIATF-S was chosen because the Irregular Warfare environment is similar to Iraq and Afghanistan (non-state actors, ad hoc networks, and an adaptive enemy), but is not as operationally stressing. The availability of operational intelligence architectures coupled with a true interagency, multi-national organizational construct make JIATF-S a realistic environment to vet capabilities prior to deployment to more stressing operational environments.

In addition to providing relevant intelligence to support JIATF-South operations, Thunderstorm will also encourage greater cooperation with multi-agency/multinational partners, and identify improvements in ISR concepts of operations that can be exported for other AORs to leverage. Like Bluegrass, OSD will make Thunderstorm data available to facilitate government and industry requirements and capabilities development.

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FY 2009 Accomplishments and Plans: Thunderstorm is exercising in a series of spirals centered on challenge problems that addressed unraveling Irregular Warfare-like networks to reduce illicit traffic (maritime in the Caribbean, air, land, and sea). Thunderstorm spirals are executed every spring and fall, with the first spiral executed in March 2009. The Thunderstorm Interagency partnership is principally from the intelligence community and includes DHS, DEA, CIA, USCG, NSA, NRO, and NGA.

FY 2010 Plans: Partner with the Secretary of Defense's ISR Task Force to execute 2-3 spirals focused on ISR capabilities being evaluated for theater deployment.

<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Transitional Law Enforcement (TLE)	0.625	0.200	1.500	

**Project Description:** Leaders in a variety of organizations including the Department of Defense, Department of State, and Department of Justice have recognized the need to increase 'cop-like' skills for improved operational outcomes in current and future conflicts. The Transitional Law Enforcement (TLE) project will advance current thinking on the nature of, and need for, policing capability across DOD, the services and the interagency to support complex warfighting, conflict resolution, stabilization and reconstruction.

The project will define deployable policing capabilities in terms of the full-spectrum of organizational and conceptual changes required to be relevant, practical and realistic for the US military and interagency (e.g. training and working with local police forces, 'cop-like' skills for general purpose forces, forensic/investigative skills for counterinsurgency and counterterrorism, interagency collaboration on security sector reform). It will also develop a clear framework to train, sustain and employ deployable TLE capability for modern conflict across military and interagency organizations. The project is expected to capture existing initiatives and identify high priority projects/specific capability gaps, including innovative technologies and technological interoperability between military and civilian law enforcement agencies.

The initial benefit of this project will be establishing a common understanding of the problem space for organizations involved in developing and managing policing capabilities. Creating a community of practitioners across the government will increase knowledge sharing and collaboration, improve existing projects, reduce overlap and potentially start new efforts.

**FY 2008 Accomplishments:** In conjunction with the US State Department, Department of Justice, and Department of Homeland Security, the TLE project developed a conceptual model for agency roles in providing TLE capability in a post-conflict stability and reconstruction environment. The project established a framework for understanding and analyzing the various organizations involved in law enforcement activities across the government and analyzed their authorities relevant to transitional law enforcement. The analysis identified options for providing the required capability within the context of the U.S. political environment.

**FY 2009 Accomplishments:** Based on the initial interagency evaluation of law enforcement capabilities, the US Marshal Service was identified as a potential transition partner for creating an organizational capability to integrate law enforcement techniques, skills and personnel into international military operations. FY2009 activities included a survey of capabilities and technologies available to civilian law enforcement agencies and military organizations engaged in law enforcement-type activities to determine interoperability and technological gaps. Currently, we are developing wargames and field activities utilizing the Marshal Service and interagency partners either focused on border patrol activities or international stabilization and reconstruction operations.

**FY 2010 Plans:** Continue work with the US Marshal Service, DHS, DOJ, and DOS to develop better coordination of TLE training standards, equipment interoperability, and performance metrics. Conduct wargames to identify the appropriate coordinating functions for TLE in different environments (cross-border security, stabilization and reconstruction of failed states).

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<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Program Support	0.300	0.300	0.300	

Project Description: Ongoing support to the office includes management and analysis of highly specialized defense research and engineering technologies and projects. Support includes technical, financial, administrative and programmatic analysis of current planned research and engineering projects as well as development of future plans and activities. Additional tasks include the development of outreach plans and activities in conjunction with individual projects and their milestones.

FY 2008 Accomplishments: Provided management and analysis of highly specialized defense research and engineering technologies. Support included technical, financial, administrative and programmatic analysis of current and planned research and engineering projects, including Wolf Pack, Stiletto, Pelican, Transitional Law Enforcement, and ORS.

FY 2009 Accomplishments and Plans: Same as FY 2008.

FY 2010 Plans: Same as FY 2008.

<b><u>Accomplishments/Planned Program Title:</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	
Additional Programs	1.343	1.573		

Additional programs to be funded will be assigned in FY 2009/2010 based on operational requirements and the technical maturity of emerging technologies.

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

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

**E. Major Performers:**

Category	Name	Location	Type of Work and Description	Award Date
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**Labs/Centers:**

	Naval Surface Warfare Center, Carderock Division,	Norfolk, VA, USA	Program manager for Stiletto Project. All funds sent via MIPR. Carderock then conducts all technical, contract and performance management functions, and disperses funds as appropriate to other government agencies and industry vendors.	
	Naval Surface Warfare Center, Dahlgren Division	Dahlgren, VA, USA	Program manager for Wolf Pack Platoon project. All funds sent via MIPR. Dahlgren then procures the vehicles and technology by executing contracts with industry vendors, and conducts system integration, engineering and testing.	
	Naval Research Laboratory	Washington, D. C., USA	Program manager for Operationally Responsive Space project. All funds sent via FAD. NRL then conducts all technical, contract and performance management functions, and disperses funds to other government agencies (such as the Air Force Research Lab/Space Vehicle Systems Directorate, Kirtland Air Force Base, Albuquerque, NM, USA) and industry vendors.	

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