

**UNCLASSIFIED**

Fiscal Year 2009  
Overseas Contingency Operations Supplemental Request  
March 2009

**DESCRIPTIVE SUMMARIES OF THE**



**RESEARCH, DEVELOPMENT, TEST AND EVALUATION  
ARMY APPROPRIATION**

Department of the Army  
Office of the Secretary of the Army (Financial Management and Comptroller)

*Persuasive in Peace, Invincible in War*

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**DESCRIPTIVE SUMMARIES FOR PROGRAM ELEMENTS  
OF THE  
RESEARCH, DEVELOPMENT, TEST AND  
EVALUATION, ARMY  
FY 2009  
OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENTAL REQUEST  
MARCH 2009**

**Department of the Army  
Office of the Assistant Secretary of the Army (Financial Management and Comptroller)**

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Exhibit R-1

Department of the Army  
FY 2009 RDT&E Overseas Contingency Operations Supplemental Request  
Cost Adjustment  
Summary

March 2009

Summary Recap of Budget Activities	Thousands of Dollars		
	FY 2009 Base	FY 2009 OCO Supplemental Request	FY 2009 Total
Basic research	0	0	0
Applied Research	0	0	0
Advanced Technology Development	0	0	0
Advanced Component Development and Prototypes	26,827	6,944	33,771
System Development and Demonstration	8,983	64,500	73,483
Management Support	3,530	390	3,920
Operational System Development	25,324	1,900	27,224
Total RDT&E, Army	64,664	73,734	138,398

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 Department of the Army  
 FY 2009 RDT&E Overseas Contingency Operations Supplemental Request  
 Cost Adjustment  
 Summary

March 2009

						Thousands of Dollars		
Summary Recap of Budget Activities						FY 2009 Base	FY 2009 OCO Request	FY 2009 Total
Advanced Component Development and Prototypes								
63	04	0603747A	Soldier Support and Survivability	Project C08	Rapid Equipping Force	26,827	6,944	33,771
Total: Advanced Component Development and Prototypes						<b>26,827</b>	<b>6,944</b>	<b>33,771</b>
System Development and Demonstration								
98	05	0604710A	Night Vision Systems	Project L70	Night Vision Development	8,983	64,500	73,483
Total: System Development and Demonstration						<b>8,983</b>	<b>64,500</b>	<b>73,483</b>
Management Support								
141	06	0604709A	Exploitation of Foreign Items (MIP)	Project C28	Acquisition/Exploitation of Threat Items (MIP)	3,530	390	3,920
Total: Management Support						<b>3,530</b>	<b>390</b>	<b>3,920</b>
Operational System Development								
170	07	0303140A	Information Systems Security Program	Project 50B	Biometrics	25,324	1,900	27,224
Total: Operational System Development						<b>25,324</b>	<b>1,900</b>	<b>27,224</b>
<b>RDT&amp;E, Army</b>						<b>64,664</b>	<b>73,734</b>	<b>138,398</b>

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

**March 2009**

<b>BUDGET ACTIVITY</b> <b>4 - Advanced Component Development and Prototypes</b>		<b>PE NUMBER AND TITLE</b> <b>0603747A - Soldier Support and Survivability</b>						<b>PROJECT</b> <b>C08</b>	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
C08 RAPID EQUIPPING FORCE			33771						33771

**A. Mission Description and Budget Item Justification:** FY09 Base funding for the US Army Rapid Equipping Force (REF) was established to provide urgently needed state-of-the-art technology to soldiers in the field to meet immediate warfighter needs under operational conditions in the current theaters. The REF Forward Teams in Iraq and Afghanistan work with Combatant Commanders and the soldiers to identify warfighter needs while REF Rear formulates solutions and rapidly delivers/fields new equipment to the deployed units. REF solutions are rapid responses to evolving, adaptable and changing, mostly asymmetric threats, in any operational environment. Projects will be aimed at improving mission mobility/survivability including evaluating concepts and hardware/software that accomplish this with current platforms and possible new platforms and or non-platform (satellites) solutions. The REF was designed to bridge the gap between the lengthy acquisition process and warfighter equipping needs that should not be delayed. Specifically the REF is charged to: EQUIP operational commanders with off-the-shelf (government or commercial) solutions or near term developmental items that can be researched, developed and acquired quickly - ideally within 90 days. INSERT future force technology solutions that engaged and deploying forces require by developing, testing and evaluating key technologies and systems under operational conditions. ASSESS capabilities and advise Army stakeholders of findings that will enable forces to confront an adaptive enemy rapidly.

FY 09 Overseas Contingency Operations Supplement Request funding will provide the Asymmetric Warfare Group funding to accomplish its mission. The Asymmetric Warfare Group provides operational and advisory assistance to Army and Joint Force Commanders to enhance the effectiveness of the operating force and enable the defeat of asymmetric threats.

<b><u>Accomplishments/Planned Program:</u></b>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY 09 Base: The REF was designed to bridge the gap between the lengthy acquisition process and warfighter equipping needs that should not be delayed. Specifically the Rapid Equipping Force is charged to: EQUIP operational commanders with off-the-shelf (government or commercial) solutions or near-term developmental items that can be researched, developed and acquired quickly - ideally, within 90 days. INSERT future force technology solutions that engaged and deploying forces require by developing, testing and evaluating key technologies and systems under operational conditions. ASSESS capabilities and advise Army stakeholders of findings that will enable forces to confront an adaptive enemy rapidly. The REF ensures safety testing of all equipment prior to release to the soldier. REF focuses on the development and testing of systems and mechanisms designed to detect, identify and defeat enemy equipment and actions designed to injure or kill and devices to help protect the warfighter. The REF continues to maintain our support to commanders to ensure that we provide a solution in the areas of Protecting the Force and Intelligence, Surveillance and Reconnaissance(ISR). Based on historical analysis (we started in our support to commanders located in Afghanistan and Iraq in FY05, then added Kuwait in FY06 and in FY 07 and by end of FY08 we will have increased our support to the NTC, Ft Polk (JRTC) and Germany (training areas)). The REF anticipates in FY09 that the level of support will not decrease but will increase based on historical increases to various different AORs. Due to the level of complexity of support required and multiple locations, program will require funding to continue support in bridging the gaps in the areas of Protecting the Force and Intelligence, Surveillance and Reconnaissance (ISR).			26827
FY09 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: The AWG will focus efforts to investigate, evaluate, and assist in the development and improvement of existing jamming devices, Electro Magnetic Pulse emitting devices, and crew, vehicle,			1795

<b>ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R2 Exhibit)</b>		<b>March 2009</b>	
<b>BUDGET ACTIVITY</b>	<b>PE NUMBER AND TITLE</b>	<b>PROJECT</b>	
<b>4 - Advanced Component Development and Prototypes</b>	<b>0603747A - Soldier Support and Survivability</b>	<b>C08</b>	
electronics disrupting devices. Specifically focus on enhancements to existing jamming devices as well as future developments. Provide RDTE with flexibility for working with industry, DoD assets, as well as technical institutes for the R&D of new and emerging technologies.			
FY09 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: The AWG will focus efforts to investigate, evaluate, and assist in the development and improvement of both existing and developmental Information Operations capabilities. We shall continue to focus efforts on developmental and Product Improvement Programs (PIPs) to existing shortfalls and gaps. Provide RDTE flexibility for emerging research, shortfalls to enhance platform durability, longevity, and detection capabilities.			1540
FY09 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: The AWG will focus efforts to investigate, evaluate, and quantify various Commercial-Off-The-Shelf/Government-Off-The-Shelf platforms and systems for purposes of research and development, testing, capability and limitation testing, and procurement. These efforts will be focused on near term, leveraging existing technology, and addressing capability gaps. Provide RDTE for emerging research shortfalls, PIPs, leap ahead technologies, and fixes to existing shortfalls (reliability, sustainability, and durability)			654
FY09 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: The AWG will focus efforts to investigate, evaluate, and assist in the development and improvement of both existing and developmental Intelligence Surveillance Reconnaissance capabilities. We shall continue to focus efforts on developmental and PIPs to existing shortfalls and gaps. Provide RDTE flexibility for emerging research, shortfalls to enhance platform durability, longevity, and detection capabilities.			1795
FY09 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: The AWG will focus efforts to investigate, evaluate, and assist in the development and improvement of existing vehicle and personal systems. Specifically focus efforts on developing enhancements to existing shortfalls and gaps. Provide RDTE flexibility for emerging research shortfalls to enhance vehicle reliability, blast sustainment, medical evacuation capability, and assault platforms. Efforts shall continue to research and test blast mitigating capabilities.			1160
<b>Total</b>			<b>33771</b>

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

**March 2009**

<b>BUDGET ACTIVITY</b> <b>4 - Advanced Component Development and Prototypes</b>	<b>PE NUMBER AND TITLE</b> <b>0603747A - Soldier Support and Survivability</b>	<b>PROJECT</b> <b>C08</b>
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<b><u>B. Program Change Summary</u></b>	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2008/2009)			26827
Current BES/President's Budget (FY 2009)			33771
Total Adjustments			6944
Congressional Program Reductions			
Congressional Program Rescissions			
Congressional Increases			6944
Reprogrammings			
SBIR/STTR Transfer			
Adjustments to Budget Years			

Change Summary Explanation: Funding: FY 09 - Anticipated FY 09 Overseas Contingency Operations Supplement Request increase.

FY 09 Base  
26,827 Thousand  
FY 09 Overseas Contingency Operations Supplement Request  
6,944 Thousand  
Total  
33,771 Thousand

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

**D. Acquisition Strategy** The REF provides urgently needed, state-of-the-art technology to soldiers in the field to meet immediate requirements. REF Rear evaluates, utilizes or adapts currently available military or civilian items (COTS/GOTS) which typically have not been type classified for Army-wide use but are available and adaptable to the current Combatant Operational Commander's needs. The REF solution is a rapid response to evolving, adaptable and changing asymmetric threats in any operational environment. The REF was designed to bridge the gap between the lengthy acquisition process and warfighter equipping needs that should not be delayed. Specifically the Rapid Equipping Force is charged to: EQUIP operational commanders with off-the-shelf (government or commercial) solutions or near-term developmental items that can be researched, developed and acquired quickly - ideally, within 90 days. INSERT future force technology solutions that engaged and deploying forces require by developing, testing and evaluating key technologies and systems under operational conditions. ASSESS capabilities and advise Army stakeholders of findings that will enable forces to confront an adaptive enemy rapidly.

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

March 2009

BUDGET ACTIVITY

**4 - Advanced Component Development and Prototypes**

PE NUMBER AND TITLE

**0603747A - Soldier Support and Survivability**

PROJECT

**C08**

Asymmetric Warfare Group (AWG). Integrates, coordinates, deploys and provides trained and ready forces, and exercises command and control of assigned forces in support of Joint and Army Forces Commanders\_ full spectrum asymmetric warfare operations. The AWG observes, collects, develops, validates, and disseminates emerging tactics and techniques to those who need it. Provides Train-the-Trainer on countering asymmetric threats, to include Improvised Explosive Devices, suicide bombers and bioweapons. AWG identifies and coordinates the fielding of Rapid Prototyping and/or commercial off-the-shelf (COTS) solutions to counter asymmetrical threats. Although validated, AWG's 08-13 POM requirements are not funded with program dollars.

# ARMY RDT&E COST ANALYSIS (R3)

March 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE								PROJECT	
4 - Advanced Component Development and Prototypes			0603747A - Soldier Support and Survivability								C08	
I. Product Development	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
Base: Various Projects - Protect the Force, Enhance ISR, Logistics and Med COIN								21427	1-4Q		21427	
OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: Various Projects to include force protection, C2 & ISR								6944	1-4Q		6944	
Subtotal:								28371			28371	
II. Support Costs	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
Various Projects	MIPR	Various Locations						27			27	
Subtotal:								27			27	
III. Test And Evaluation	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
Various Projects (Protect Force in Counterinsurgency Operations, and Intel, Survel, and Recon)	MIPR	Various Locations						5373	1-4Q		5373	
Subtotal:								5373			5373	

# ARMY RDT&E COST ANALYSIS (R3)

March 2009

BUDGET ACTIVITY <b>4 - Advanced Component Development and Prototypes</b>	PE NUMBER AND TITLE <b>0603747A - Soldier Support and Survivability</b>	PROJECT <b>C08</b>
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IV. Management Services	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
Subtotal:												
<b>Project Total Cost:</b>								<b>33771</b>			<b>33771</b>	

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

**March 2009**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>		<b>PE NUMBER AND TITLE</b> <b>0604710A - Night Vision Systems - Eng Dev</b>						<b>PROJECT</b> <b>L70</b>	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
L70 NIGHT VISION DEV ED			73483						73483

**A. Mission Description and Budget Item Justification:** This project performs System Development and Demonstration (SDD) on high performance night vision, Reconnaissance, Surveillance, and Target Acquisition (RSTA) systems and other related systems that allow forces to locate and track enemy units in day, night, and all battlefield conditions, and through natural and man-made structures and obscurants. It also develops and integrates suites of these sensors to provide well-defined surveillance and targeting capabilities, as well as architectures for these sensors to communicate automatically. The focus is on meeting the requisite night vision and RSTA capabilities required for evolving Current Force, Modular Force, and Future Force systems. Efforts will continue to refine a standard architecture among sensors with the Sensor Link Protocol (evolving to a joint message set called Sensor Data Link) to allow these sensors to communicate in a plug and play manner for improved force level sensor data fusion, aided target recognition and target hand-off.

This project will also demonstrate the producibility of interchangeable uncooled thermal focal plane arrays, and develop an uncooled infrared imaging B-Kit sensor family that will result in standardized sensor modules for a variety of applications. By eliminating the requirement for cryogenic coolers, uncooled thermal imagers are inherently smaller, lighter, more reliable, use less power, and are less expensive. Uncooled B-Kits can be used for a variety of Current Force, Modular Force, Future Combat System (FCS), and Future Force systems such as weapon sights, driver's viewers/situational awareness aids, missile seeker sensors, unattended ground sensors/security sensors, and unmanned ground and aerial vehicle payloads.

This project transitions 3rd Gen Forward Looking Infrared (3rd Gen FLIR) technology from the 3rd Gen Infrared Advanced Technology Objective (ATO) to the development of a 3rd Gen FLIR Engine for use in Current Force and Future Force systems. 3rd Gen FLIR provides Mid Wave Infrared and Long Wave Infrared digitized corrected video. 3rd Gen FLIR technology enhances the war-fighters' survivability and lethality through increased ID range performance when used in current sensor packages, while enabling detection of difficult and obscured targets as well as faster threat detection through automated processes. 3rd Gen FLIR technology can also be used to enhance mobility by maintaining current range performance in significantly smaller and lighter sensor packages.

This project continues Unattended Ground Sensors (UGS) hardware development, demonstration and test for a family of UGS systems for Intelligence, Surveillance and Reconnaissance (ISR). This will provide FCS and the Army a remotely employable Unattended Ground Sensor capability for ISR and physical security.

This project further developed the Persistent Surveillance and Dissemination System-of-Systems (PSDS2), a system-of-systems which linked numerous sensors (currently in theater) together, providing theater commanders with a single coordinated picture of the battlefield and the capability to quickly disseminate this "actionable information" to responders.

This project develops, integrates, and tests an upgrade to the long Range Advanced Scout Surveillance System (LRAS3) system, making it capable of digitizing, compressing and transmitting target information and imagery across the battlefield Network using Standard Army Radios. This enables the Current Force and Modular Force with the ability to cross-cue sensors that are linked to the network as well as share/exploit imagery and data from networked sensors on the battlefield.

FY 2009 Overseas Contingency Operations Supplement Request - At the direction of the OSD Intelligence, Surveillance and Reconnaissance (ISR) Task Force (TF), the Army is sponsoring: 1. The development of Heterogeneous Airborne Reconnaissance Technology (HART). This HART effort will develop a platform neutral system capable of tasking, coordinating and managing semi-autonomously underutilized sensor capability on multiple platforms and provide a logically organized storage system for utilization by the current and future ISR network. The effort will also develop a system for evaluation and use by deployed forces at the Brigade level. The developed system will provide FMV geo-registration capability, FMV and intelligence exploitation and storage tools, and semi-autonomous sensor management. 2. The development of an airborne wireless mesh

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

**March 2009**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>	<b>PE NUMBER AND TITLE</b> <b>0604710A - Night Vision Systems - Eng Dev</b>	<b>PROJECT</b> <b>L70</b>
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capability. It will provide a high capacity (up to three megabit per second), two-way, secure Information Processing (IP) based network between ground forces and aerial assets for rapid integration of ISR sensors and servers, enabling real time access to ISR information across the battlefield. 3. The development of Beyond Line of Sight for the Remote Detection of Activity (RDA) Seismic Unattended Ground Sensors (UGS). RDA UGS will be employed by Soldiers and Marines for force protection and situational awareness. RDA UGS will provide a low cost and long endurance (two to four month battery life) capability to provide seismic detection of vehicles and human footsteps for monitoring of critical operational areas and extended perimeters at forward operating bases.

**Accomplishments/Planned Program:**

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY 09 Base: Continue Sensor Link Protocol (SLP) as part of the DoD Joint Variable Message Format (JVMF) standard while maintaining configuration management and modifying application software tools. Sensor Link Protocol (SLP)/Sensor Architecture - A uniform and standard means of describing and coordinating the collection, preprocessing, communication, and fusion of RSTA functions for the Future Force and FCS. FY09 will formalize SDL for networks.			729
FY 09 Base: Unattended Ground Sensors (UGS) - Develop ISR, Chemical, Biological, Radiological, Nuclear (CBRN) and Urban UGS for FCS and other Army customers. Funds continue spiral integration efforts to include sensor systems remote employment capabilities. Demonstrate viability and technical feasibility of remotely employing a networked Unattended Ground Sensors (UGS) system from a UAV delivery platform. Supported successful Preliminary Design Review (PDR). Current focus is in support of the FCS Spin-Out 1. FY09 continues development for Spin Out 1 for testing to verify JTRS network performance.			910
FY 09 Base: Third Generation FLIR (3rd Gen FLIR) - System Development and Demonstration (SDD) of 3rd Gen FLIR Engines. FY09 will continue the development and qualification of a 3rd Gen FLIR Engine to meet current requirements for the Next Gen FLIR (AN/ZSQ-2/Q-3) aviation systems and for emerging requirements to include Stryker Mast Mounted Sensor, Future Combat Systems Medium and Long Range Sensors, the Common Sensor for the Armed Reconnaissance Helicopter (ARH), the Long Range Advanced Scout Surveillance System (LRAS3) and LRAS3 Next Generation.			6794
FY 09 Base: Development of payloads for the Army's UAV in accordance with TRADOC priorities and in support of FCS. This effort provides an EO/IR payload with an integrated laser designator for use in FCS Class III and IV UAVs. This effort is a joint program with PM Close Combat Support (CCS), expanding the capability of the Airborne Surveillance Target Acquisition and Minefield Detection System (ASTAMIDS) by adding the designator. In FY09 will take delivery of five additional prototypes, conduct Government Development Test.			550
FY 09 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: Heterogeneous Airborne Reconnaissance Team (HART) system development			36000
FY 09 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: Beyond Line of Sight RDA Seismic UGS development.			6000
FY 09 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: Airborne Wireless Mesh development			22500
<b>Total</b>			<b>73483</b>

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

**March 2009**

**BUDGET ACTIVITY**  
**5 - System Development and Demonstration**

**PE NUMBER AND TITLE**  
**0604710A - Night Vision Systems - Eng Dev**

**PROJECT**  
**L70**

<b><u>B. Program Change Summary</u></b>	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2008/2009)			8983
President's Budget (FY 2009)			73483
Total Adjustments			64500
Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			64500
Reprogrammings			
SBIR/STTR Transfer			
Adjustments to Budget Years			

Change Summary Explanation: Funding: FY 09 - Anticipated FY 09 Overseas Contingency Operations Supplement Request increase.

FY 09 Base  
 8,983 Thousand  
 FY 09 Overseas Contingency Operations Supplement Request  
 64,500 Thousand  
 FY 09 Total  
 73,483 Thousand

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

**D. Acquisition Strategy** The development programs in this project are currently based on competitive awards and under cost reimbursement type contracts.

# ARMY RDT&E COST ANALYSIS (R3)

March 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
5 - System Development and Demonstration			0604710A - Night Vision Systems - Eng Dev							L70		
I. Product Development	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
Sensor Architecture/Digital RSTA/SLP	C/CPIF & C/CP	Various						286	1-2Q		286	
EO/IR/LD UAV Payloads	C/CP	Lockheed Martin						500	1Q		500	
FCS UGS / UGS	C/CP	FCS Boeing/Textron/Various /TBD						810	2Q		810	
3rd Gen FLIR	C/CPIF	Various						5010	2Q		5010	
FY 09 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: HART Development	TBD							36000	1-4Q		17000	
FY 09 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: Beyond Line of Sight RDA Seismic UGS development.	TBD							6000	1-4Q		6000	
FY 09 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: Airborne Wireless Mesh Development	TBD							22500	1-4Q		22000	
Subtotal:								71106			51606	
II. Support Costs	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
Matrix Support	MIPR	Various						1950	1-2Q		1950	
Subtotal:								1950			1950	

# ARMY RDT&E COST ANALYSIS (R3)

March 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE								PROJECT	
5 - System Development and Demonstration			0604710A - Night Vision Systems - Eng Dev								L70	
III. Test And Evaluation	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
Subtotal:												
IV. Management Services	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
Project Management	In-House Support	PM, NV/RSTA, Fort Belvoir, VA & Ft. Monmouth, NJ						427	1-4Q		427	
Subtotal:								427			427	
<b>Project Total Cost:</b>								<b>73483</b>			<b>53983</b>	

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

**March 2009**

<b>BUDGET ACTIVITY</b> <b>6 - Management support</b>		<b>PE NUMBER AND TITLE</b> <b>0605709A - EXPLOITATION OF FOREIGN ITEMS</b>					<b>PROJECT</b> <b>C28</b>	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	
C28 ACQ/EXPLOIT THREAT ITEMS (MIP)			3920					

**A. Mission Description and Budget Item Justification:** This is a continuing project for acquisition and exploitation of foreign materiel constituting potential advanced technology threats to U.S. systems. The primary aim of this project is to maximize the efficiency of research and development for force and materiel development by reducing the uncertainties concerning these threats. The project also answers general scientific and technical intelligence requirements, aids in the development of countermeasures to threat materiel and threat technology, and provides materiel for realistic testing and training. Acquisitions and exploitations are executed according to an Army Foreign Materiel Review Board and with the approval of the Army, Director of Intelligence (G2).

Justification for FY 09 Overseas Contingency Operations Supplement Request Dollars: Modern weapons lethality has driven a worldwide proliferation of camouflage materials (nets, covers, paints and appliqué) and decoys (low-and high-fidelity) designed to defeat modern sensors and enhance survivability of foreign weapons systems and facilities. Camouflage, concealment and Deception (CC&D) systems often utilize inexpensive technology that has a significant impact on sophisticated and costly smart sensors and weapons. Materiel targeted for exploitation includes the following however, additional items may be received: \*Serbia/Montenegro Mile Dragic Nets \*Russian MRPK Radar Absorbing Camouflage Nets \*Swedish Barracuda Counter-Observation Barrier System \*Swedish Barracuda RAPCAM \*Malaysian Metro Koats MKT \* Greek Intermat Paints.

<b><u>Accomplishments/Planned Program:</u></b>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY 09 Base: Acquire threat systems identified and prioritized in the Army Annual Foreign Program Plan.			1621
FY 09 Base: Initiate, continue, or complete exploitation projects on ground systems of Army interest identified in the appropriate Army FMP Exploitation Program.			1909
FY 09 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: Acquire CC&D material of interest identified by the Army as threats to U.S. Soldiers and Systems.			130
FY 09 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: Initiate, continue, or complete exploitation projects on CC&D systems of interest and threats to U.S. Forces.			260
<b>Total</b>			<b>3920</b>

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

**March 2009**

BUDGET ACTIVITY <b>6 - Management support</b>	PE NUMBER AND TITLE <b>0605709A - EXPLOITATION OF FOREIGN ITEMS</b>	PROJECT <b>C28</b>
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<u><b>B. Program Change Summary</b></u>	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2008/2009)			3530
Current BES/President's Budget (FY 2009)			3920
Total Adjustments			390
Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			390
Reprogrammings			
SBIR/STTR Transfer			
Adjustments to Budget Years			

Change Summary Explanation: Funding: FY 09 - Anticipated FY 09 Overseas Contingency Operations Supplement Request increase.

FY 09 Base  
 3,530 Thousand  
 FY 09 Overseas Contingency Operations Supplement Request  
 390 Thousand  
 FY 09 Total  
 3,920 Thousand

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

**March 2009**

<b>BUDGET ACTIVITY</b> <b>7 - Operational system development</b>	<b>PE NUMBER AND TITLE</b> <b>0303140A - Information Systems Security Program</b>						<b>PROJECT</b> <b>50B</b>		
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
50B BIOMETRICS			27224						27224

**A. Mission Description and Budget Item Justification:** Secretary of the Army (SA) is the Executive Agent for the DoD Biometrics (automated methods of human recognition) Program. The DoD Biometrics program consists of the DOD Biometric Management Office (BMO), DoD Biometric Fusion Center (BFC), and Product Director (PD)-Biometrics, supports biometric research, testing, evaluation, and related activities. The BMO provides oversight, guidance, policy and standards support. The BFC provides technical expertise, early assessment of biometric capabilities, as well as industry and academia interface. PD-Biometrics provides acquisition support, repository management, DoD Automated Biometric Identification Support (ABIS) operations and maintenance, lifecycle management, and material development. The DoD Biometric program focuses on an enterprise approach, emphasizing interoperability and utilizing tested biometric technologies for incorporation into DoD business processes.

FY 2009 Overseas Contingency Operations Supplement Request funds will move the biometrics program towards an enterprise solution, providing a multi-modal biometric capability to include local watch list synchronization, secure web portal access, and service-oriented architecture. This would also include: Developing a common biometrically enabled watch list for DoD. Entailing both the technical means to implement the watch list and the organizational challenges of a common product. Developing the technical solution to address the untethered operation of biometric collection devices. This "last tactical mile" provides the ability to give the operator immediate feedback on the status of a biometric request. Identifying the shortfalls in current communications architecture to increase the efficiency and speed of biometric match results. The authoritative data source is the heart of the biometric process. The connections, protocols, and technology needed to provide a result in less than one minute will be defined within this effort.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY 2009 Base: Conduct test and evaluation of biometric commercial hardware and software to determine suitability for use within DoD. Conduct modeling and simulation efforts to support operational evaluation. Conduct DoD-wide working groups to synthesize enterprise biometric requirements and abilities into biometrics technology demonstrations and pilot activities. Support biometric integration in existing command and control and MIS systems.			25324
FY 2009 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: Develop a common biometrically enabled watch list for DoD.			897
FY 2009 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: Develop untethered operation of biometric collection devices.			758
FY 2009 OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: Identify the shortfalls in current communications architecture to increase the efficiency and speed of biometric match results.			245
<b>Total</b>			<b>27224</b>

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

**March 2009**

BUDGET ACTIVITY <b>7 - Operational system development</b>	PE NUMBER AND TITLE <b>0303140A - Information Systems Security Program</b>	PROJECT <b>50B</b>
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	FY 2007	FY 2008	FY 2009
<b><u>B. Program Change Summary</u></b>			
Previous President's Budget (FY 2008/2009)			25324
Current BES/President's Budget (FY 2009)			27224
Total Adjustments			1900
Congressional Program Reductions			
Congressional Program Rescissions			
Congressional Increases			1900
Reprogrammings			
SBIR/STTR Transfer			
Adjustments to Budget Years			

Change Summary Explanation: Funding: FY 09 - Anticipated FY 09 Overseas Contingency Operations Supplement Request increase.

FY 09 Base  
 25,324 Thousand  
 FY 09 Overseas Contingency Operations Supplement Request  
 1,900 Thousand  
 Total  
 27,224 Thousand

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

**D. Acquisition Strategy** The objective of this project is to develop the DoD Automated Biometrics Identification System (ABIS) and biometric capability that will be managed at the enterprise level. ABIS currently provides a biometric matching capability that can identify national security threats in support of the Global War on Terrorism for a variety of functions. Primary focus for FY06 was to establish the biometrics program of record and develop a framework for leveraging technologies and processes to facilitate better sharing of biometric data on persons of interest collected and forwarded to other DoD agencies and to develop a biometric implementation strategy for Homeland Security Presidential Directive (HSPD)-12. The program will also continue to support the testing and evaluation of products and other analysis and evaluation of applicable technologies as well as finalize and synthesize an interoperable biometric enterprise approach. FY07 and beyond will continue to support technology, pilot test and evaluation activities and the deployment of biometric devices and systems used for biometric data collection and processing, physical access, logical access, identity proofing, intelligence exploitation, and law enforcement. A board selected Program Manager will be appointed at PEO EIS to ensure that biometric activities continue to serve the DoD communities that use biometric technology.

# ARMY RDT&E COST ANALYSIS (R3)

March 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
<b>7 - Operational system development</b>			<b>0303140A - Information Systems Security Program</b>							<b>50B</b>		
I. Product Development	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
Base: Enterprise Development	Various	Various						25324	1-4Q		25324	
OVERSEAS CONTINGENCY OPERATIONS SUPPLEMENT REQUEST: Enterprise Development	Various	Various						1900	1-4Q		1900	
Subtotal:								27224			27224	
II. Support Costs	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
Subtotal:												
III. Test And Evaluation	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
Subtotal:												
IV. Management Services	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
Subtotal:												
<b>Project Total Cost:</b>								<b>27224</b>			<b>27224</b>	