

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)					DATE MAY 2009					
APPROPRIATION / BUDGET ACTIVITY RDT&E, DEFENSE-WIDE / 7			R-1 ITEM NOMENCLATURE / PROJECT NO. PE 1160404BB Special Operations (SO) Tactical Systems Development							

COST (Dollars in Millions)	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15	Cost to Complete	Total Cost
PE1160404BB	55.541	20.392	6.182						Cont.	Cont.
D476 PSYOPS ADV DEV	6.563								Cont.	Cont.
D615 SOF AVIATION	.960								Cont.	Cont.
S0417 UNDERWATER SYSTEMS ADV DEV	1.742								Cont.	Cont.
S1684 SOF SURFACE CRAFT ADVANCE SYSTEMS	6.406								Cont.	Cont.
S375 WEAPONS SYSTEMS ADV DEV	15.394								Cont.	Cont.
S700 SO COMMUNICATIONS ADV DEV	13.699								Cont.	Cont.
S710 SO TACTICAL SYSTEMS (AUTOMATION)		20.392	6.182						Cont.	Cont.
S800 SO MUNITIONS ADV DEV	8.062								Cont.	Cont.
S900 SO MISCELLANEOUS EQUIPMENT ADV DEV	2.615								Cont.	Cont.

A. Mission Description and Budget Item Justification: This program element provides for development, testing, and integration of specialized automation equipment to meet the unique requirements of Special Operations Forces (SOF). Specialized automation equipment will permit small, highly trained forces to conduct required operations across the entire spectrum of conflict. These operations are generally conducted in harsh environments, for unspecified periods and in locations requiring small unit autonomy. SOF must infiltrate by land, sea, and air to conduct unconventional warfare, direct action, or deep reconnaissance operations in denied areas against insurgent units, terrorists, or highly sophisticated threat forces. The requirement to operate in denied areas controlled by a sophisticated threat mandates that SOF systems remain technologically superior to threat forces to ensure mission success.

APPROPRIATION / BUDGET ACTIVITY
RDT&E, DEFENSE-WIDE / 7

R-1 ITEM NOMENCLATURE / PROJECT NO.

PE 1160404BB Special Operations (SO) Tactical Systems Development

B. Program Change Summary:

	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>
Previous President's Budget	58.816	13.263	2.272
Current President's Budget	55.441	20.392	6.182
Total Adjustments	-3.375	7.129	3.910
Congressional Program Reductions		-0.071	
Congressional Increases			
Reprogrammings	-2.986	7.200	
Other Program Adjustments			3.910
SBIR Transfer	-0.389		

Funding:

FY08: Net decrease (-\$3.375 million) is due to FY08 Omnibus reprogramming FY08-31PA (\$2.832 million), DD 1415-3 FY08-30IR (\$0.566 million), reprogramming to higher command priorities (-\$6.384 million) and Small Business Innovation Research adjustment (-\$0.389 million).

FY09: Net increase of \$7.129 million is due to Section 8101 reduction (-\$0.071 million) and the following Congressional adds:

Covert Communication for SOF (\$1.600 million)

Common Unmanned Ground Vehicle Command and Control for PSYOP Programs (\$0.800 million)

Advanced Long Endurance Unattended Ground Sensors (\$3.600 million)

Integration of Force XXI Battle Command, Bridge, and Below with Tactical Handheld Digital Devices (\$1.200 million)

FY10: Net increase of \$3.910 million is due to reprogramming to Special Operations Resource Business Information System to support development timelines (\$4.652 million), reprogramming to higher command priorities (-\$0.656 million), and economic assumptions (-\$0.086 million).

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<p>Schedule: N/A.</p> <p>Technical: N/A.</p>		

Exhibit R-2a, RDT&E Project Justification		Date: MAY 2009
Appropriation/Budget Activity RDT&E BA # 7	SO Tactical Systems (Automation)/Project S710	

Cost (\$ in million)	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
SO Tactical Systems (Automation)		20.392	6.182					
RDT&E Articles Quantity								

A. Mission Description and Budget Item Justification: The Special Operations Forces (SOF) Automation Systems Project provides for automation systems to meet emergent requirements to support SOF. The SOF mission mandates that SOF systems remain technologically superior to any threat to provide a maximum degree of survivability. SOF Automation Systems is a continuing effort to procure interoperable SOF Command, Control, Communications, and Computer (C4) capabilities.

United States Special Operations Command (USSOCOM) has developed an overall strategy to ensure that Command, Control, Communications, Computer and Intelligence (C4I) systems continue to provide SOF with the required capabilities throughout the 21st century. USSOCOM's C4I systems comprise an integrated network of systems providing positive command and control and the timely exchange of intelligence and threat warning to all organizational echelons. The C4I systems that support this new architecture employ the latest standards and technology by transitioning from separate systems to full integration within the Global Information Grid (GIG). The GIG infosphere is a multitude of existing and projected national assets that allows SOF elements to operate with any force combination in multiple environments. The C4 programs funded in this project meet annual emergent requirements.

OPERATIONAL ELEMENT (TEAM)

- C4I Automation Systems-Distributed Common Ground System: The C4I Automation System is a garrison infrastructure directly supporting the Command's global mission by providing a seamless and interoperable interface with SOF, Department of Defense (DoD), and Service information systems. It provides the capabilities to exercise command and control and collaboration, process and share intelligence data, and facilitate mission planning and the operational preparation of the battlespace, connecting numerous data repositories while maintaining information assurance. Additionally, it provides the critical reachback for SOF tactically deployed local area networks/wide area networks. The C4I Automation System-Distributed Command Ground System is composed of state-of-the-art automated systems (firewalls, routers, switches, hubs, and modems), servers, storage devices, workstations and associated peripherals. The program supports a myriad of SOF user requirements and uses a variety of government-off-the-shelf/commercial-off-the-shelf software and databases to ensure interoperability between SOF units.

- The Tactical Local Area Network program provides SOF operational commanders and forward deployed forces advanced automated data processing and display capabilities to support situational awareness, mission planning and execution, and command and control of forces.

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The program consists of suites, mission planning kits and field computing devices. Each suite consists of three easily transportable, multiple integrated networks; 60 general use laptops; 10 intelligence laptops; routers; and ancillary equipment used by SOF Command and Control Nodes, forming a deployed Local Area Network (LAN). Mission planning kits consist of four general use laptops and ancillary equipment used by SOF teams for detailed mission planning support. Field computing devices are small hand-held computing devices used by the most forward deployed SOF teams to automatically interface with the suite via tactical communications.

- Advanced Long Endurance Unattended Ground Sensors is an FY 2009 Congressional add that will continue the research and development of small, low power, unattended ground sensor technologies.
- Common Unmanned Ground Vehicle (UGV) Command and Control for PSYOP Programs is an FY 2009 Congressional add. The device will provide a wireless command and control capability. The device will consist of a hand held computer that will be wirelessly connected to a payload or multiple payloads.
- Integration of Force XXI Battle Command, Brigade and Below Tactical Handheld Digital Devices is an FY 2009 Congressional add that will provide vertical and horizontal integration of the digital battlespace and the brigade and below tactical unit levels.
- Covert Communications for SOF is an FY 2009 Congressional add that will advance the development of covert waveform technologies.

ABOVE OPERATIONAL ELEMENT

A. The Special Operations Resource Business Information System will provide an enterprise-wide solution that will bring together resource and acquisition management data from disparate systems and databases (both internal and external) used throughout USSOCOM into an integrated business system that can provide a common user interface and common source view of the data. It will enable users to perform acquisition management, as well as planning, programming, and budgeting collaborative decision processes. The system will retain information on validated mission requirements, generate standard and ad hoc reports, graphically display performance metrics and data, and conduct in-depth data analysis and reporting.

B. Accomplishments/Planned Program

	FY08	FY09	FY10	FY11
Command, Control, Communications, Computers and Intelligence Automation Systems		0.108		
RDT&E Articles Quantity				

FY09 Begin development of SOF Distributed Common Ground System resource adapters that will ensure service data can be seamlessly ingested into the SOF capability.

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	FY08	FY09	FY10	FY11
Tactical Local Area Network		2.052	1.594	
RDT&E Articles Quantity				
FY09 Continue development and integration of Blue Force Tracking secure wireless biometrics, Embedded National Tactical Receiver and Distributed Common Ground System data sharing capabilities. FY10 Continues development and integration of Blue Force Tracking secure wireless biometrics, Embedded National Tactical Receiver and Distributed Common Ground System data sharing capabilities.				
	FY08	FY09	FY10	FY11
Special Operations Resource Business Information System		11.237	4.588	
RDT&E Articles Quantity				
FY09 Complete software application development for resource planning, programming, and budgeting capabilities, an effort that began in FY 2008 under project S700. FY10 Completes software application testing for resource planning, programming, and budgeting capabilities.				
	FY08	FY09	FY10	FY11
Advanced Long Endurance Unattended Ground Sensors		3.498		
RDT&E Articles Quantity				
FY09 This is a congressional add that will continue the research and development of small, low power, unattended ground sensor technologies.				
	FY08	FY09	FY10	FY11
Common Unmanned Ground Vehicle Command and Control for PSYOP Programs				
RDT&E Articles Quantity		0.777		
FY09 This initiative is a congressional add to continue development of a wireless command and control capability. This capability is applicable to the Next Generation Loudspeaker System Unmanned Ground Vehicle Variant.				
	FY08	FY09	FY10	FY11
Integration of Force XXI Battle Command, Bridge and Below with Tactical Handheld Digital Devices		1.166		
RDT&E Articles Quantity				
FY09 This initiative is a congressional add that will integrate vertical and horizontal digital battlespace and the brigade and below tactical unit levels.				

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	FY08	FY09	FY10	FY11
Covert Communications for SOF		1.554		
RDT&E Articles Quantity				

FY09 This initiative is a congressional add to continue development of new covert communication capability. Develop Low Probability of Intercept/Low Probability of Detection waveforms for SOCOM tactical radio application, an effort that began in FY 2008 under project S700.

C. Other Program Funding Summary:

	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>	<u>FY11</u>	<u>FY12</u>	<u>FY13</u>	<u>FY14</u>	<u>FY15</u>	To Complete	Total Cost
PROC, SOF Automation Systems		55.085	60.836						Cont.	Cont.
PROC, Communication Equipment and Electronics	50.614	73.004	55.080						Cont.	
Cont. RDT&E, SOF Communications Advanced Development, PE 1160404BB Project S700	13.699									

D. Acquisition Strategy:

- Command, Control, Communications, Computers and Intelligence Automation Systems Distributed Common Ground System is a post Milestone C fielded SOF communications infrastructure that will evaluate and develop infrastructure technology adaptors that support the seamless transmission of critical Intelligence, Surveillance, and Reconnaissance products.
- Tactical Local Area Network is a post-Milestone C fielded program that is being upgraded to reduce the footprint of deployable networks and related equipment.
- Special Operations Resource Business Information System acquisition strategy seeks to optimize a cost, schedule, and performance mix, pursuing a commercial-off-the-shelf materiel solution through full and open competition. Commercial and government agency sources will be leveraged for required certifications, functional and operational test, and acceptance support.

Exhibit R-3 RDT&E Project Cost Analysis

DATE: MAY 2009

APPROPRIATION / BUDGET ACTIVITY			Special Operations Tactical Systems Development/PE 1160404BB								
RDT&E DEFENSE-WIDE / 7			SOF Automation Systems/S710								
Actual or Budget Value (\$ in millions)											
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	Budget Cost FY09	Award Date FY09	Budget Cost FY10	Award Date FY10	Budget Cost FY11	Award Date FY11	To Complete	Total Program
Primary Hardware Development Command, Control, Communications, Computers, and Intelligence Automation System - Develop SOF Distributed Common Ground System Capability	TBD	TBD		0.108	Apr-09						0.108
Tactical Local Area Network - Develop/Integrate Evolutionary Technology Insertion Capabilities	IDIQ	iGov Technologies, Tampa, FL		2.052	Jan-09	1.594	Jan-10			Cont.	Cont.
Advanced Long Endurance Unattended Ground Sensors	TBD	TBD		3.498	Sep-09						3.498
Subtotal Product Development				5.658		1.594				Cont.	Cont.
Remarks:											
Development Support Software Development Special Operations Resource Business Information System - Software Application Development and Test	TBD	TBD		11.237	Jun-09	4.588	Jan-10				15.825
Common UGV Command and Control for PSYOP Programs	MIPR	SPAWAR		0.777	Dec-08						0.777
Subtotal Development Support				12.014		4.588					16.602
Remarks:											
Developmental Test & Evaluation Devices	TBD	TBD		1.166	Sep-09						1.166
Covert Communications for SOF	TBD	Scientific Research Corp, Atlanta GA		1.554	Sep-09						1.554
Subtotal Developmental Test & Evaluation				2.720		0.000					2.720
Remarks:											
Contractor Engineering Support											
Subtotal Engineering Support											
Remarks:											
Total Cost				20.392		6.182				Cont.	Cont.

Exhibit R-4, RDT&E Program Schedule Profile														Date: MAY 2009																		
Appropriation/Budget Activity				Program Element and Name										Project Number and Name																		
RDT&E/7				PE1160404BB/Special Operations Tactical Systems Development										Project S710/SOF Automation Systems																		
Fiscal Year	2008				2009				2010				2011				2012				2013				2014				2015			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Command, Control, Communications, Computers, and Intelligence Automation System - Develop SOF Distributed Common Ground System Capability						▲	—	△																								
Tactical Local Area Network - Develop/Integrate Evolutionary Technology Insertion Capabilities						▲	—	△	△	—	△																					
Special Operations Resource Business Information System - Software Application Development							△	△	△	—	△																					

