Exhibit R-2, RDT&E Budget Item Justification: PB 2011 United States Special Operations Command											DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	PE 1160404BB: *Special Operations (SO) Tactical Systems (Automation) Development/S710*

COST ($ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	15.143	6.845	1.582	0.000	1.582	1.608	1.638	1.667	1.695	Continuing	Continuing
S710: *Special Operations (SO) Tactical Systems (Automation) Development/S710*	15.143	6.845	1.582	0.000	1.582	1.608	1.638	1.667	1.695	Continuing	Continuing

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.

B. Program Change Summary ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	19.884	6.182	0.000	0.000	0.000
Current President's Budget	15.143	6.845	1.582	0.000	1.582
Total Adjustments	-4.741	0.663	1.582	0.000	1.582
• Congressional General Reductions		-4.617			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		5.280			
• Congressional Directed Transfers		0.000			
• Reprogrammings	-4.251	0.000			
• SBIR/STTR Transfer	-0.490	0.000			
• Other Adjustment	0.000	0.000	1.582	0.000	1.582

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 United States Special Operations Command	DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 1160404BB: *Special Operations (SO) Tactical Systems (Automation) Development/S710*

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2009	FY 2010
Project: S710: *Special Operations (SO) Tactical Systems (Automation) Development/S710*		
Congressional Add: *Congressional Add: Advanced Long Endurance Unattended Ground Sensors*	3.588	0.000
Congressional Add: *Congressional Add: Common Unmanned Ground Vehicle Command and Control for PSYOP Programs*	0.797	0.000
Congressional Add: *Congressional Add: Integration of Force XXI Battle Command, Bridge and Below with Tactical Handheld Digital Devices*	1.196	0.000
Congressional Add: *Congressional Add: Covert Waveform Communications for SOF*	1.594	2.759
Congressional Add: *Congressional Add: SOC-R Armor Development for Small Arms Armor Piercing Ammo*	0.000	2.499
Congressional Add Subtotals for Project: S710	7.175	5.258
Congressional Add Totals for all Projects	7.175	5.258

Change Summary Explanation
Funding:

FY09: Net decrease of -$4.741 million is due to FY 2009 Omnibus 1415-1 Prior Approval Reprogramming (09-26 PA) (-$2.000 million), Small Business Innovative Research transfer (-$0.490 million), and reprogramming to support Foliage Penetration efforts (-$2.251 million).

FY10: Net increase of $0.663 million is due to Congressional Adds for Covert Communication for Software Defined Radios ($2.765 million) and for SOC-R Armor Development for Small Arms Armor Piercing Ammo ($2.499 million), decrease of -$4.588 million for a Congressional reduction against the Special Operations Resource Business Information System, and -$0.029 million due to Section 8097 Congressional general reduction. Funding for SOC-R Armor Development for Small Arms Armor Piercing Ammo Congressional Add will be moved via 1415 reprogramming action into PE 1160481BB SOF Munitions.

FY11:   Increase of $1.582 million is due to the DoD not estimating FY 2011 cost when the FY 2010 President's Budget was prepared.

Schedule: None.

Technical: None.

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Exhibit R-2A, RDT&E Project Justification: PB 2011 United States Special Operations Command										DATE: February 2010	

APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 1160404BB: *Special Operations (SO) Tactical Systems (Automation) Development/ S710*	PROJECT S710: *Special Operations (SO) Tactical Systems (Automation) Development/S710*

COST ($ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
S710: *Special Operations (SO) Tactical Systems (Automation) Development/S710*	15.143	6.845	1.582	0.000	1.582	1.608	1.638	1.667	1.695	Continuing	Continuing
Quantity of RDT&E Articles											

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)

• 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. 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.

Exhibit R-2A, RDT&E Project Justification: PB 2011 United States Special Operations Command		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 1160404BB: *Special Operations (SO) Tactical Systems (Automation) Development/ S710*	**PROJECT** S710: *Special Operations (SO) Tactical Systems (Automation) Development/S710*

• 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 at 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 ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Tactical Local Area Network	2.051	1.587	1.582	0.000	1.582
FY 2009 Accomplishments: FY09 Continued development and integration of Blue Force Tracking secure wireless biometrics, Embedded National Tactical Receiver and Distributed Common Ground System data sharing capabilities. *FY 2010 Plans:* FY10 Continue development and integration of Blue Force Tracking secure wireless biometrics, Embedded National Tactical Receiver and Distributed Common Ground System data sharing capabilities.					

United States Special Operations Command

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Exhibit R-2A, RDT&E Project Justification: PB 2011 United States Special Operations Command		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 1160404BB: *Special Operations (SO) Tactical Systems (Automation) Development/ S710*	**PROJECT** S710: *Special Operations (SO) Tactical Systems (Automation) Development/S710*

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY11 Continues development and integration of Blue Force Tracking secure wireless biometrics, Embedded National Tactical Receiver, and Distributed Common Ground System data sharing capabilities.					
Special Operations Resource Business Information System *FY 2009 Accomplishments:* FY10 Completed software application testing and implementation for resource planning, programming, and budgeting capabilities.	5.917	0.000	0.000	0.000	0.000
Accomplishments/Planned Programs Subtotals	7.968	1.587	1.582	0.000	1.582

	FY 2009	FY 2010
Congressional Add: Congressional Add: Advanced Long Endurance Unattended Ground Sensors *FY 2009 Accomplishments:* FY09 Continues the research and development of small, low power, unattended ground sensor technologies.	3.588	0.000
Congressional Add: Congressional Add: Common Unmanned Ground Vehicle Command and Control for PSYOP Programs *FY 2009 Accomplishments:* FY09 Continue development of a wireless command and control capability. This capability is applicable to the Next Generation Loudspeaker System Unmanned Ground Vehicle Variant.	0.797	0.000

Exhibit R-2A, RDT&E Project Justification: PB 2011 United States Special Operations Command		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 1160404BB: *Special Operations (SO) Tactical Systems (Automation) Development/ S710*	**PROJECT** S710: *Special Operations (SO) Tactical Systems (Automation) Development/S710*

B. Accomplishments/Planned Program ($ in Millions)

	FY 2009	FY 2010
Congressional Add: Congressional Add: Integration of Force XXI Battle Command, Bridge and Below with Tactical Handheld Digital Devices *FY 2009 Accomplishments:* FY09 Integrate vertical and horizontal digital battlespace at the brigade and below tactical unit levels.	1.196	0.000

Congressional Add: Congressional Add: Covert Waveform Communications for SOF
 	
FY 2009 Accomplishments:
  FY09 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 2005 under project S700.
 	
FY 2010 Plans:
  FY10 Continue development of LPI/LPD.
	1.594	2.759

Congressional Add: Congressional Add: SOC-R Armor Development for Small Arms Armor Piercing Ammo *FY 2010 Plans:* FY10 Develop armor for the Special Operations Craft-Riverine (SOC-R) that can withstand small arms fire.	0.000	2.499
Congressional Adds Subtotals	7.175	5.258

United States Special Operations Command

Exhibit R-2A, **RDT&E Project Justification:** PB 2011 United States Special Operations Command		**DATE:** February 2010
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 1160404BB: *Special Operations (SO) Tactical Systems (Automation) Development/ S710*	**PROJECT** S710: *Special Operations (SO) Tactical Systems (Automation) Development/S710*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PROC:: *SOF Automation Systems*	55.373	54.966	52.353		52.353	54.090	54.467	54.366	56.681	Continuing	Continuing
• PROC1:: *Communications Equipment and Electronics*			0.498		0.498	0.979	2.497	2.466	4.580	Continuing	Continuing

D. Acquisition Strategy

 • 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.

E. Performance Metrics

 N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 United States Special Operations Command		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 1160404BB: *Special Operations (SO) Tactical Systems (Automation) Development/ S710*	**PROJECT** S710: *Special Operations (SO) Tactical Systems (Automation) Development/S710*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Tactical Local Area Network - Develop/ Integrate Evolutionary Technology Insertion Capabilities	TBD/TBD	iGov Technologies Tampa, FL	2.051	1.587	Oct 2009	1.582	Oct 2010	0.000		1.582	Continuing	Continuing	Continuing
Advanced Long Endurance Unattended Ground Sensors	TBD/TBD	TBD TBD	3.588	0.000		0.000		0.000		0.000	0.000	3.588	Continuing
Subtotal			5.639	1.587		1.582		0.000		1.582	0.000	3.588	

Remarks

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Special Operations Resource Business Information System - Software Application Implementation & Training	C/CPFF	IBM Bethesda, MD	5.917	0.000		0.000		0.000		0.000	0.000	5.917	Continuing
	MIPR	SPAWAR	0.797	0.000		0.000		0.000		0.000	0.000	0.797	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 United States Special Operations Command		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 1160404BB: *Special Operations (SO) Tactical Systems (Automation) Development/ S710*	**PROJECT** S710: *Special Operations (SO) Tactical Systems (Automation) Development/S710*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Common UGV Command and Control for PSYOP Programs		SPAWAR											
Subtotal			6.714	0.000		0.000		0.000		0.000	0.000	6.714	

Remarks

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Integration of FBCB2 Tactical Handheld Digital Devices	MIPR	USASPO Alexandria, VA	1.196	0.000		0.000		0.000		0.000	0.000	1.196	Continuing
Covert Communications for SOF	MIPR	Air Force Research Laboratory (AFRL) Rome, NY	1.594	2.759	Jan 2010	0.000		0.000		0.000	0.000	4.353	Continuing
SOC-R Armor Development for Small Arms Armor Piercing Ammo	TBD/TBD	TBD TBD	0.000	2.499	Jan 2010	0.000		0.000		0.000	Continuing	Continuing	Continuing

United States Special Operations Command

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 United States Special Operations Command		DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 1160404BB: *Special Operations (SO) Tactical Systems (Automation) Development/ S710*	PROJECT S710: *Special Operations (SO) Tactical Systems (Automation) Development/S710*

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			2.790	5.258		0.000		0.000		0.000	0.000	5.549	

Remarks

		Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		15.143	6.845		1.582		0.000		1.582	0.000	15.851	

Remarks

United States Special Operations Command

Exhibit R-4, RDT&E Schedule Profile: PB 2011 United States Special Operations Command		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 1160404BB: *Special Operations (SO) Tactical Systems (Automation) Development/ S710*	**PROJECT** S710: *Special Operations (SO) Tactical Systems (Automation) Development/S710*

Exhibit R-4, RDT&E Program Schedule Profile   Date: FEBRUARY 2010

Appropriation/Budget Activity	Program Element and Name	Project Number and Name
RDT&E/7	PE1160404BB/Special Operations Tactical Systems (Automation) Development	Project S710/SO Tactical Systems (Automation)

Exhibit R-4A, RDT&E Schedule Details: PB 2011 United States Special Operations Command				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*		**R-1 ITEM NOMENCLATURE** PE 1160404BB: *Special Operations (SO) Tactical Systems (Automation) Development/ S710*		**PROJECT** S710: *Special Operations (SO) Tactical Systems (Automation) Development/S710*	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Tactical Local Area Network - Develop/Integrate Evolutionary Technology Insertion Capabilities	2	2009	4	2015
Special Operations Resource Business Information System - Software Application Development	4	2009	4	2009
Covert waveform Communications for SOF - Congressional Add	3	2009	4	2010
SOC-R Armor Development for Small Arms Armor Piercing Ammo - Congressional Add	2	2010	4	2010