

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)						DATE FEBRUARY 2002			
APPROPRIATION / BUDGET ACTIVITY RDT&E, DEFENSE-WIDE / 7			R-1 ITEM NOMENCLATURE PE1160405BB Spec Operations Intelligence Systems Development						
COST (Dollars in Millions)	FY01	FY02	FY03	FY04	FY05	FY06	FY07	Cost to Complete	Total Cost
PE1160405BB	6.968	14.989	1.590	6.063	5.706	3.571	1.636	Cont.	Cont.
S400 SO INTELLIGENCE	6.968	14.989	1.590	6.063	5.706	3.571	1.636	Cont.	Cont.
<p><b>A. Mission Description and Budget Item Justification</b></p> <p>This program element provides for the identification, development, and testing of Special Operations Forces (SOF) intelligence equipment to identify and eliminate deficiencies in providing timely intelligence to deployed forces. The following distinct sub-projects address the primary areas of intelligence dissemination, sensor systems, integrated threat warning to SOF mission platforms, and tactical exploitation of national system capabilities. USSOCOM has developed an overall strategy to ensure that Command, Control, Communications, Computers, and Intelligence (C4I) systems continue to provide SOF with the required capabilities into the 21st century. USSOCOM's C4I systems comprise an integrated network of systems providing positive command and control and timely exchange of intelligence and threat warning to all organizational echelons. The C4I systems that support this new architecture will employ the latest standards and technology by transitioning from separate systems to full integration with the infosphere. The infosphere will allow SOF elements to operate with any force combination in multiple environments. The C4I programs funded in this project are grouped by the level of organizational element they support: Operational Element (Team), Above Operational Element (Deployed), and Above Operational Element (Garrison).</p> <p>Change Summary Explanation:</p> <p>Funding:</p> <ul style="list-style-type: none"> <li>-- This program element received \$3.180 million of FY 2002 Defense Emergency Response Funds for the Special Operations Joint Interagency Collaborative Cell.</li> <li>-- FY 2002 Congressional Actions: <ul style="list-style-type: none"> <li>Joint Threat Warning System (\$3.8 million)</li> <li>Counterproliferation Analysis and Planning System (\$5.1 million)</li> <li>Solid-State Synthetic Aperture Radar (\$3 million)</li> </ul> </li> </ul> <p>Schedule: None.</p> <p>Technical: None.</p>									

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B. Program Change Summary		FY 2001	FY 2002	FY 2003
Previous President's Budget		7.790	3.089	2.707
Appropriated Value		8.022	14.989	
Adjustments to Appropriated Value / President's Budget		(1.054)		(1.117)
Current Budget Submit		6.968	14.989	1.590

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APPROPRIATION / BUDGET ACTIVITY RDT&E, DEFENSE-WIDE / 7			R-1 ITEM NOMENCLATURE / PROJECT NO. PE 1160405BB Special Operations Intelligence Systems Development / Project S400						

COST (Dollars in Millions)	FY01	FY02	FY03	FY04	FY05	FY06	FY07	Cost to Complete	Total Cost
S400, Special Operations Intelligence	6.968	14.989	1.590	6.063	5.706	3.571	1.636	Cont.	Cont.

A. Mission Description and Budget Item Justification

This project provides for the identification, development, and testing of Special Operations Forces (SOF) intelligence equipment to identify and eliminate deficiencies in providing timely intelligence to deployed forces. The following distinct sub-projects address the primary areas of intelligence dissemination, sensor systems, integrated threat warning to SOF mission platforms, and tactical exploitation of national system capabilities. USSOCOM has developed an overall strategy to ensure that Command, Control, Communications, Computers, 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 timely exchange of intelligence and threat warning to all organizational echelons. The C4I systems that support this new architecture will employ the latest standards and technology by transitioning from separate systems to full integration with the infosphere. The infosphere will allow SOF elements to operate with any force combination in multiple environments. The intelligence programs funded in this project will meet annual emergent requirements and are grouped by the level of organizational element they support: Operational Element (Team), Above Operational Element (Deployed), and Above Operational Element (Garrison). Sub-projects include:

OPERATIONAL ELEMENT (TEAM)

- PRIVATEER. PRIVATEER is part of an evolutionary signal intelligence system migration and acquisition program that provides a permanent full spectrum radar and communications early warning capability aboard Cyclone-class Patrol Coastal (PC) and the MK V Special Operations Craft (SOC). PRIVATEER hosts a common software architecture that controls a variety of hardware modules designed to satisfy the unique platform requirements of each ship class. System configuration provides the equipment necessary to monitor and provide direction finding on radar and

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<p>communications signals of interest. Also provides broadcast threat warning capability. Architecture is Joint Deployable Intelligence Support System/Joint Maritime Communications and Intelligence Support System compliant with UNIX-based software. Beginning in FY2002, PRIVATEER migrates to the Joint Threat Warning System (JTWS) program.</p> <ul style="list-style-type: none"> <li>• National Systems Support to SOF (NSSS). NSSS is a project to introduce and integrate national systems capabilities into the SOF force structure and operations. NSSS activities include increasing national systems awareness, demonstrating the tactical utility of national system data, testing technology and evaluating operational concepts in biennial Joint Staff Special Projects, and transitioning promising concepts and technologies into the SOF materiel inventory.</li> <li>• JTWS. JTWS develops a modular, scaleable system that consists of user defined, integrated common hardware modules driven by an interoperable software architecture and configurable for use in manpack, unattended, and platform versions (ground, aircraft, and maritime). JTWS functional requirements include communications monitoring and direction finding, and receipt and correlation of near-real-time tactical intelligence broadcasts. This JTWS program consolidates legacy systems to include PRIVATEER, SILENT SHIELD, and SOF Signals Intelligence (SIGINT) Manpack System (SSMS).</li> <li>• Solid State Synthetic Aperture Radar. Provides for target detection in high sea states and high ground clutter environments.</li> </ul> <p>ABOVE OPERATIONAL ELEMENT (DEPLOYED)</p> <ul style="list-style-type: none"> <li>• Special Operations Tactical Video System (SOTVS). SOTVS will provide the capability to forward digital imagery near-real-time via current and planned future organic SOF tactical communication systems in support of surveillance and reconnaissance missions. A splash-proof camera version has been selected.</li> </ul>	

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<p>ABOVE OPERATION ELEMENT (GARRISON)</p> <ul style="list-style-type: none"> <li>• Special Operations Joint Interagency Collaborative Cell (SOJICC): The SOJICC will provide a capability to plan, coordinate, and integrate Joint Information Operations in support of the Concept of Operations (CONOPS) that support National Command Authority taskings, regional combatant commanders' theater plans and core mission tasks and provide USSOCOM mission planners a critical tool to positively effect the outcome of SOF missions worldwide. SOF has fallen behind state-of-the-art capabilities and is in jeopardy of losing relevancy as the subject matter experts for critical missions. Delays in the start of SOJICC will exacerbate existing shortfalls in SOF's ability to answer intelligence requirements associated with these mission planning actions and result in missed opportunities to thwart threats to the nation's security. Commercial sector and DoD research activities have made remarkable strides toward integrating existing translation algorithms, neural network pattern recognition programs, and visualization techniques that dramatically enhance intelligence analysis and Information Operations.</li> <li>• Counter-Proliferation Analysis and Planning System (CAPS). CAPS will improve Combatant Commanders' support through collaboration, integration and mission planning. CAPS supports on-going operational support efforts including National Command Authority directed actions and planning.</li> </ul> <p>FY 2001 ACCOMPLISHMENTS:</p> <ul style="list-style-type: none"> <li>• (3.955) JTWS. Continued system architecture and software development/migration of the JTWS. (1QTR01)</li> <li>• (1.366) NSSS. Continued to participate in JCS and theater CINC advanced concepts technology demonstrations to evaluate national technical support to amphibious operations, overall interoperability and support of combined SOF and conventional operations. Continued to assess technology and operational utility of national systems. Provided systems engineering and technical assistance. (1QTR01-3QTR01)</li> </ul>	

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<ul style="list-style-type: none"> <li>• (1.557) PRIVATEER. Developed, integrated and tested the Block 3 Evolutionary Technology Insertion (ETI). (1QTR01)</li> <li>• (0.090) SOTVS. Intended to conduct an evaluation of a waterproof camera that was under development and splash-proof camera modified Non-Developmental Item (NDI) solutions. The waterproof variant effort was terminated. Based on the evaluation of splash-proof solutions, a determination was made to select an NDI commercial off-the-shelf solution which does not require further development. (2QTR01)</li> </ul> <p>FY 2002 PLAN:</p> <ul style="list-style-type: none"> <li>• (1.582) NSSS. Continue to participate in JCS and theater CINC advanced concept technology demonstrations, which continue to evaluate national technical support to amphibious operations, overall interoperability and support of combined SOF and conventional operations. Continue to assess technology and operational utility of national systems. Provide systems engineering and technical assistance. (1QTR02-2QTR02)</li> <li>• (5.307) JTWS. Initiate JTWS ground variant prototype development and delivery of one ground variant team transportable prototype. (2QTR02)</li> <li>• (5.100) CAPS. Develop SOF unique capabilities of Air Force CAPS program: CAPS sensor integration, information operations, mission analysis, collaboration, hypertext markup language CAPS integration, sensor placement and optimization. (2QTR02)</li> <li>• (3.000) Solid State Synthetic Aperture Radar. Develop technologies to identify targets in high sea states and high ground clutter environments. (2QTR02)</li> </ul> <p>DEFENSE EMERGENCY RESPONSE FUND PLAN:</p> <ul style="list-style-type: none"> <li>• (3.180) SOJICC. Develop, integrate and test different commercial off-the-shelf hardware and software applications to achieve data compatibility for data mining and retrieval, link and nodal analysis, and data visualization. (1QTR02-2QTR02)</li> </ul>		

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FY 2003 PLAN:

- (1.470) NSSS. Continue to participate in JCS and theater CINC advanced concepts technology demonstrations which continue to evaluate national technical support to amphibious operations, overall interoperability and support of combined SOF and conventional operations. Continue to assess technology and operational utility of national systems. Provide systems engineering and technical assistance. (1QTR03)
- (0.120) SOJICC. Continue systems engineering and program management efforts to achieve data compatibility by integrating different commercial off-the-shelf hardware and software applications for data mining and retrieval, link and nodal analysis, and data visualization. (2QTR03)

B. Other Program Funding Summary

	<u>FY01</u>	<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>	<u>FY06</u>	<u>FY07</u>	To <u>Complete</u>	Total <u>Cost</u>
PROC, SOF Intel Systems	28.527	9.433	8.166	11.589	13.654	23.281	14.668	Cont.	Cont.

C. Acquisition Strategy:

- JTWS is an evolutionary acquisition program that consolidated legacy systems to include: PRIVATEER, SILENT SHIELD and SSMS. As an evolutionary acquisition program, JTWS will continue to introduce systems improvements via ETI's tailored to satisfy specific platform requirements.

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<ul style="list-style-type: none"> <li>SOJICC will integrate different commercial off-the-shelf hardware and software applications to provide a capability to plan, coordinate, and integrate Joint Information Operations in support of CONOPS supporting National Command Authority tasking, regional combatant commanders' theater plans and core mission tasks and provides USSOCOM mission planners a critical tool to positively effect the outcome of SOF missions worldwide.</li> </ul>																
					<u>FY01</u>			<u>FY02</u>			<u>FY03</u>					
<u>D. Schedule Profile</u>					1	2	3	4	1	2	3	4	1	2	3	4
NSSS Participation in Advanced Concepts Technology Demonstrations					x	x	x	x	x	x	x	x	x	x	x	x
PRIVATEER ETI Software Development, Integration and Testing					x	x	x	x								
JTWS Architecture & Software Development/Migration					x	x	x	x								
JTWS Ground Variant Prototype										x	x	x				
SOTVS Variant Evaluation					x											
SOJICC Integration and Test														x	x	x
CAPS Integration										x	x	x				
Solid State Synthetic Aperture Radar										x	x	x				

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Exhibit R-3 COST ANALYSIS						DATE: FEBRUARY 2002					
APPROPRIATION / BUDGET ACTIVITY				Special Operations Intelligence Systems Development/PE1160405BB							
RDT&E DEFENSE-WIDE / 7				Special Operations Intelligence/S400							
Actual or Budget Value (\$ in millions)											
Cost Categories	Contract		Total	Budget	Award	Budget	Award	Budget	Award		
(Tailor to WBS, or System/Item Requirements)	Method & Type	Performing Activity & Location	PYs Cost	Cost FY01	Date FY01	Cost FY02	Date FY02	Cost FY03	Date FY03	To Complete	Total Program
Primary Hardware Dev	MIPR	SPAWAR, Charleston, SC	2.486	5.512	Nov-00	5.834	Feb-02	0.133	Oct-02	Cont.	Cont.
	FFP/SS	Qual-Tron, Inc., Tulsa, OK	0.050								0.050
	Various	Various	42.129			3.000	Mar-02				45.129
	FFP MIPR	Eastman Kodak, Inc. Rochester, NY	1.239								1.239
	MIPR	Battle Command Lab									0.000
	MIPR	Ft. Huachuca, AZ	0.493								0.493
	MIPR	Lawrence Livermore National Laboratory (LLNL), Livermore, CA				0.400	Mar-02				0.400
Ancillary Hardware Dev											
Systems Engineering	FP/SS	Wave Science, Inc, E Rochester, NY	0.005								0.005
	MIPR	Naval Undersea Warfare, Kpt, WA	0.090								0.090
	MIPR	Naval Air Warfare, St Inigoes, MD	1.231								1.231
	TBD	TBD				0.540	Mar-02	0.930	Nov-02	Cont.	Cont.
	Various	Various	1.206	0.027	Jun-01						1.233
	MIPR	SAF/FMB Washington D C	0.500	0.575	Feb-01						1.075
	MIPR	SPAWAR, Charleston, SC		0.345	Jan-01						0.345
	MIPR	LLNL, Livermore, CA				0.250	Mar-02				0.250
Materiel/Equipment	MIPR	SPAWAR, Charleston, SC	0.813								0.813
Subtotal Product Dev			50.242	6.459		10.024		1.063		Cont.	Cont.
Remarks:											
DERF Funds:											
Primary Hardware Development	Various	Various				1.547	Dec-01				1.547
Development Spt	MIPR	ESC, Hanscom AFB, MA	0.344								0.344
	MIPR	SPAWAR, Charleston, SC	0.145								0.145
	MIPR	Naval Systems Mgt. Activity, VA	1.180								1.180
Software Dev/Integ	MIPR	SPAWAR, Charleston, SC	4.442								4.442
	MIPR	Pt. Mugu, CA	0.050								0.050
	FFP/C	Delfin Systems, Santa Clara, CA	0.133								0.133
	MIPR	BTG, Inc., Fairfax, VA	1.205								1.205
	MIPR	LLNL, Livermore, CA				3.900	Mar-02				3.900
Software Spt	MIPR	GSA, Kansas City, MO	0.130								0.130
Training Development	MIPR	GSA, Kansas City, MO	0.080								0.080
	MIPR	Naval Air Warfare, St Inigoes, MD	0.030								0.030
	MIPR	LLNL, Livermore, CA				0.200	Mar-02				0.200
Integrated Logistics Spt											
Configuration Management	MIPR	SPAWAR, San Diego, CA	0.025								0.025

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APPROPRIATION / BUDGET ACTIVITY				Special Operations Intelligence Systems Development/PE1160405BB							
RDT&E DEFENSE-WIDE / 7				Special Operations Intelligence/S400							
Actual or Budget Value (\$ in millions)											
Cost Categories	Contract		Total	Budget	Award	Budget	Award	Budget	Award		
(Tailor to WBS, or System/Item Requirements)	Method & Type	Performing Activity & Location	PYs Cost	Cost FY01	Date FY01	Cost FY02	Date FY02	Cost FY03	Date FY03	To Complete	Total Program
Development Spt (Cont)											
Technical Data	MIPR	Naval Air Warfare, St Inigoes, MD	0.090								0.090
Subtotal Spt			7.854	0.000		4.100					11.954
Remarks:											
DERF Funds:											
Software Dev/Tng	Various	Various				1.595	Jan-02				1.595
Training Development	FFP/C	EMC Corp, MacLean, VA				0.038	Jan-02				0.038
Developmental Test & Eval	MIPR	SPAWAR, Charleston, SC	0.630								0.630
	MIPR	JTIC, Ft Huachuca, AZ	0.172								0.172
OT&E	MIPR	SPAWAR, Charleston, SC	1.737								1.737
	MIPR	DESA, Kirtland, NM	0.217								0.217
	MIPR	18 FLTS, Hurlburt Field, FL	0.027								0.027
	MIPR	Naval Air Warfare, St Inigoes, MD	1.155								1.155
	MIPR	Naval Air Warfare, St Inigoes, MD	0.398								0.398
	MIPR	National Accessment Group, Kirtland AFB, NM		0.090	Feb-01						0.090
Subtotal T&E			4.336	0.090							4.426
Remarks:											
Government Engineering Spt											
Program Management Spt	CPFF/C	Booz-Allen & Hamilton, McLean, VA	2.831	0.419	Oct-00	0.500	Oct-01				3.750
	CPFF/C	TBD						0.510	Oct-02	Cont.	Cont.
	MIPR	LLNL, Livermore, CA				0.200	Mar-02				0.200
	MIPR	SPAWAR, Charleston, SC	0.487								0.487
Travel	N/A	USSOCOM, MacDill AFB, FL	0.124			0.165	Various	0.017	Various	Cont.	Cont.
Subtotal Management			3.442	0.419		0.865		0.527		Cont.	Cont.
Remarks:											
Total Cost			65.874	6.968		14.989		1.590		Cont.	Cont.