

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET		DATE FEBRUARY 1999
APPROPRIATION / BUDGET ACTIVITY PROCUREMENT, DEFENSE - WIDE / 2	P-1 ITEM NOMENCLATURE COMMUNICATIONS EQUIPMENT AND ELECTRONICS	
<p>FY 2000 PROGRAM JUSTIFICATION: Acquires 3 V1 Systems.</p> <p>FY 2001 PROGRAM JUSTIFICATION: Acquires 1 V1 System.</p> <p>c. Joint Base Station Variant 2 (JBS V2). Formerly Special Operations Communications Package, is a man-transportable integrated transit case system that provides U.S. Air Force Special Operations Command and Theater SOC commanders with an operational transit case capability. JBS V2 is small enough to be high mobility multi-purpose wheeled vehicle transportable or loaded onto a 463L aircraft pallet. This package replaces the Special Communications Integrated Package.</p> <p>d. Joint Base Station Variant 3 (JBS V3). Formerly Fixed Base Station, is a man-transportable, multi-function transit case headquarters base station communications system which provides Naval Special Warfare commanders the ability to monitor and coordinate nearby land and sea operations. The JBS V3 upgrades the former system with state-of-the-art communications.</p> <p>e. Joint Base Station Variant 4 (JBS V4). Formerly Modular Communications Package, is a modularized man-transportable integrated transit case communications system that provides Naval Special Warfare commanders with a variety of scaleable communications capabilities at ashore and afloat locations.</p> <p>FY 2000 PROGRAM JUSTIFICATION: Acquires 2 and upgrades 3 V4 Systems.</p> <p>FY 2001 PROGRAM JUSTIFICATION: Acquires 2 V4 Systems.</p> <p>9. Special Operations Communications Assemblage Improvement (SOCAIMP). Beginning FY 2000, SOCAIMP upgrades 60 existing Special Operations Communications Assemblage (SOCA) Systems with modern communications devices to include UHF SATCOM with DAMA, HF Single Side Band radios, embedded COMSEC improved system software, and higher data rate modems.</p>		

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<p>FY 2000 PROGRAM JUSTIFICATION: Upgrades 7 systems.</p> <p>FY 2001 PROGRAM JUSTIFICATION: Upgrades 8 systems.</p> <p>ABOVE OPERATIONAL ELEMENT (GARRISON)</p> <p>10. Command, Control, Communications, Computers and Intelligence Automation System (C4IAS). C4IAS consolidates 9 previously separate automation programs and incorporates numerous disparate Local and Wide Area Networks (LAN/WANs), collateral and unclassified, into one centralized Special Operations Forces (SOF) wide corporate information network. It migrates SOF C4I automation across the commands, from garrison tactical extensions, into an effective, efficient, interoperable global information system. Through the implementation of state-the-art hardware, software and communications technology C4IAS will provide the SOF user community with the best, most efficient means to effectively satisfy SOF information requirements. C4IAS fulfills a wide range of requirements: command and control; intelligence; administration; office automation; decision making assistance; mission analysis, planning, and execution; logistics; and acts as the interface to other automation systems transitioning the network. The overall network must accommodate; at least until multi level security accreditation is in place, operation at different security levels. C4IAS is designated an evolutionary acquisition program. Through the implementation of Evolutionary Technology Insertions, the various networks will be standardized IAW the Defense Information Infrastructure Common Operating Environment, modernized, and evolved into a Special Operations Forces (SOF) wide corporate network. Network operations will be collapsed, consolidated and centralized in keeping with the Defense Planning Guidance to streamline infrastructure expenditures. In order to facilitate interfaces and interoperability the network will transition to Asynchronous Transfer Mode (ATM) to remain consistent with the Defense Information System Network and with USSOCOM's SCAMPI network. Legacy systems include United States Army Special Operations Command (USASOC) Network, Army and Air Force SOF Logistics and Acquisition Management System, USSOCOM LAN/WAN, Naval Special Warfare Command LAN/WAN, Air Force Special Operations Command LAN/WAN, Special Tactics Network, Special Mission Unit LAN/WAN, and the Command Planning Database.</p> <p>FY 2000 PROGRAM JUSTIFICATION: Introduction of a Capital Equipment Replacement Program (CERP) acquires hardware network</p>		

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<p>wide. Two major sites' infrastructure backbone will be transitioned to Asynchronous Mode Transfer (ATM). Four sets of stand alone ATM equipment will be acquired for USASOC, not part of the ATM infrastructure transition.</p> <p>FY 2001 PROGRAM JUSTIFICATION: The CERP program will continue. Network migration to ATM will continue, 2 major sites.</p> <p>11. SCAMPI. SCAMPI is a telecommunications system for the dissemination of Command, Control, Communications, Computer and Intelligence (C4I) information among USSOCOM, its components and their major subordinate units, and selected Government agencies and activities directly associated with the Special Operations (SO) community. SCAMPI is the principal C4I medium for USSOCOM. SCAMPI provides gateway service for the SO community to external Department of Defense (DOD) classified voice, data and Video Teleconferencing (VTC) systems. Transmission of data between SCAMPI nodes is over leased T1 and Fraction T1 lines. SCAMPI carries collateral (red) and Sensitive Compartmented Information (grey) voice and data. Voice and data information are integrated into data streams using multiplexers. USSOCOM has developed a Deployable SCAMPI capability. It provides a deployed SOF Headquarters (down to operational unit level) with simultaneous multimedia capability (digital and analog voice, asynchronous and synchronous data, ethernet Local Area Network, and Integrated Systems Digital Network) with switched connectivity to national, DOD common user, and theater communications links through a SCAMPI tactical gateway. Funds provide for migration of the SCAMPI System (Hubs, nodes, gateways, and deployable nodes) to a DOD standards compliant Asynchronous Transfer Mode (ATM) architecture.</p> <p>FY 2000 PROGRAM JUSTIFICATION: Hub retrofit at 4 sites; 1 Joint Special Operations Command analog Red Switch to an expandable digital red voice switch; and life cycle replacement of Data Broadcast Switch equipment throughout the garrison SCAMPI System.</p> <p>FY 2001 PROGRAM JUSTIFICATION: SCAMPI ATM node retrofit for 10 garrison SCAMPI nodes and 7 deployable nodes; 1 mini hub ATM retrofit at Special Operations Command Europe; installation of SOF-unique equipment at Standardized Tactical Entry Point sites; node relocation of SCAMPI equipment in support of 2 SOF unit relocations into new facilities.</p> <p>12. Video Teleconferencing (VTC). VTC provides a means to conduct positive command and control in a secure, real-time, face-to-face</p>		

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<p>manner and allow information exchanges among HQ USSOCOM, the Washington Office, it's component commands, and the Theater Special Operations Commands. It provides access to USSOCOM VTC systems, the Defense Information System Network Video Services Global (DVSG), and the Joint Worldwide Intelligence Communications System.</p> <p>FY 2000 PROGRAM JUSTIFICATION: Phase I capability will provide DVSG at the component commands and upgrade video bridges at several locations to provide continuous presence capability, improved document cameras, and enhanced bandwidth ability.</p> <p>FY 2001 PROGRAM JUSTIFICATION: Phase II extends the DVSG to the Theater Special Operations Commands.</p> <p>13. Headquarters Command, Control, Communications, Computers, and Information (HQ C4I) systems. HQ C4I supports a variety of HQ USSOCOM C4I requirements to include the Defense Message System (DMS) and the Systems Readiness Center (SRC). The DMS is a Department of Defense program to capitalize on existing communication circuitry and emerging technology to meet requirements for secure, accountable, and reliable, writer-to-reader messaging at reduced cost. DMS incorporates state of art messaging, directory, security, and management technologies. Implementation of DMS will allow phase out of obsolete Automatic Digital Network (AUTODIN) technologies and incompatible, unsecured electronic mail systems. The Network Control Center (NCC) provides comprehensive, responsive, and proactive support to USSOCOM network users. The SRC will monitor and control the SCAMPI, Headquarters local area network/wide area network and other network operations from a primary and a secondary control node.</p>		

COST ANALYSIS EXHIBIT (P-5) - Other Procurement	A. Appropriation/Budget Activity Title/No. Procurement, Defense-Wide/Proc. Just./2		B. Line Item Nomenclature COMMUNICATIONS EQUIPMENT & ELECTRONICS				C. DATE: FEBRUARY 1999				
	Work Breakdown Structure		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001
Cost Elements (\$thousands)	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
<b>1. SPECIAL MISSION RADIO SYSTEM (SMRS)</b>											
A. Manpack Radio (MPR) Hardware Upgrade 137C to 137F					5.298	3,179	5.385	2,224			
B. General Purpose HF Radios	15.521	4020	16.436	1,234	17.411	2,925	17.706	1,771	18.021	2,487	
C. Vehicle Kits					14.548	451	14.822	311	15.073	1,658	
D. Transportable Base Stations (TBS) Upgrade					9.194	285	9.644	212			
E. Evolutionary Tech Insertions/ Eng Change Orders						207		196		176	
F. Inital Spares						217					
Subtotal		4,020		1,234		7,264		4,714		4,321	
<b>2. NAVAL SPECIAL WARFARE TACTICAL RADIO</b>											
A. Hardware	61.153	795					72.667	866			
B. ETIs/ECOs				73		34					
Subtotal		795		73		34		866			
<b>3. MULTI-BAND/MULTI MISSION RADIO</b>											
A. Manpack Hardware					26.483	4,026	26.920	6,192	27.381	5,504	
B. Vehicular Hardware					42.587	3,407	43.290	5,108	44.041	6,826	
C. Ancillary Equipment						586		1,270		1,270	
D. ECOs								470		402	
Subtotal						8,019		13,040		14,002	
<b>4. MULTI-BAND INTER/INTRA TEAM RADIO</b>											
A. Urban Radio Hardware					4.473	3,167	4.761	2,090	5.034	755	
B. Maritime Radio Hardware					4.823	1,476	4.994	1,808	5.283	2,013	
C. Ancillary Equipment						1,832		1,102		476	
D. NRE/ECOs						1,028		290		169	
Subtotal						7,503		5,290		3,413	
<b>5. CONDOR</b>											
A. Cellular Phones					0.990	1,400	1.012	261			
B. Remote Trunking System Cell Site											
Subtotal						1,400		261		0	
<b>6. MINIATURE MULTIBAND BEACON</b>											
									10.000	1,044	
<b>7. SOFTACS</b>											
A. SOFTACS Hardware				2,473			1,377.667	8,266	1,358.000	5,432	
B. SOFTACS Tropo-Satellite Support Radios			145.385	1,243	124.333	373					
C. Tactical Satellite Signal Processors			39.200	588							
D. Support Equipment				175		263		175			

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	Work Breakdown Structure		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001
Cost Elements (\$thousands)	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	
7. SOFTACS (Cont)											
E. Production Support/Initial Training/Fielding				3,585		2,583		2,245		3,406	
F. Initial Spares				1,080		124		1,626		3,622	
G. ECOs				86		373		367		850	
H. ATM/DMS ETI							35,000	455	37,000	185	
I. Switch ETIs							25,143	528	25,500	969	
J. DAMA ETI							52,900	529			
K. KA Band ETI									342,400	5,136	
L. Net Encryption System ETI									26,900	538	
M. Local Area Net ETIs							179,500	359	184,429	1,291	
N. External Triband Antenna						754,500	3,018		782,000	1,564	
Subtotal				9,144		6,734		14,550		22,993	
8. JOINT BASE STATION											
B. Variant 1 Production											
(1) Variant 1 Transit Case Hardware			595,010	2,380							
(2) Variant 1 Vehicle System Hardware			1,912,488	9,563	1,973,000	5,919	1,974,333	5,923	2,009,000	2,009	
(3) Variant 1 Production and Fielding				5,656		2,099		2,142		1,176	
C. Variant 2 Production											
(1) Variant 2 Hardware	397,500	795	1,171,044	6,224							
(2) Variant 2 Production and Fielding		921		2,128							
D. Variant 3 Upgrade											
(1) Variant 3 Hardware					1,034,400	5,172					
(2) Variant 3 Production and Fielding						2,123					
E. Variant 4 Production											
(1) New Hardware					1,418,333	4,255	1,363,500	2,727	1,387,000	2,774	
(2) Upgrade Hardware					963,333	2,890	995,667	2,987			
(3) Variant 4 Production and Fielding						3,189		2,574		1,254	
F. Evolutionary Technology Insertion		4,920		790		2,788		2,802		2,538	
Subtotal		6,636		26,741		28,435		19,155		9,751	
9. SPECIAL OPERATIONS COMM ASSEMBLAGE IMP							490,571	3,434	491,125	3,929	
10. C4IAS											
A. Workstation Hardware							2,721	7,595	2,769	7,727	
B. Server Hardware							29,434	2,443	29,940	2,485	

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Work Breakdown Structure		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001	
Cost Elements (\$thousands)		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
10. C4IAS (Cont0)											
C. Printers								1.842	1,245	1.874	1,267
D. Other. Peripherals									3,164		3,194
E. ETIs											
(1) Software Standardization					705		1,090				
E. ETIs (Cont)											
(2) E-Mail Standardization					1,325						
(3) Defense Message System					1,143						
(4) Distant Learning Infrastructure							225		494		
(5) Network R-engineering/ATM Core									4,289		4,024
Subtotal					3,173		1,315		19,230		18,697
11. SCAMPI											
A. Deployable Nodes						559.000	1,677			454.286	3,180
B. Node Relocation										102.000	204
C. Node Retrofits										516.600	5,166
D. Hub Relocations				2,400.000	4,800						
E. Hub ATM Retrofits						961.000	1,922	961.750	3,847	961.750	962
F. Gateways						751.000	751				
G. Red Switch Upgrade								800.000	800		
H. Technology Insertions					855				42		347
Subtotal					5,655		4,350		4,689		9,859
12. VTC											
A. Site Hardware						152.000	456				
B. Site Bridge Equipment Upgrades								300.000	300	150.000	300
C. Interface Equipment Upgrades								11.000	22	11.000	22
D. Terminal Equipment Upgrades								32.000	192	32.667	196
E. Theater Special Opns Cmd Sites								150.000	600		
F. Software ETIs									72		67
Subtotal							456		1,186		585
13. HQ C4I/LAN Upgrades											
A. Hardware					886		327		343		351
14. Aircraft Wireless Intercommunications System											
A. 3-Person Headset						14.595	1,286				
B. 6-Person Headset						20.475	614				
Subtotal							1,900				
LINE ITEM TOTAL			11,451		46,906		67,737		86,758		88,945

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B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT, DEFENSE-WIDE/2				C. P-1 ITEM NOMENCLATURE COMMUNICATIONS EQUIPMENT & ELECTRONICS						
LINE ITEM/ FISCAL YEAR	QTY	UNIT COST	LOCATION OF PCO	CONTRACT METHOD TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAIL NOW?	DATE REVIS AVAIL	
1. SPECIAL MISSION RADIO SYSTEM (SMRS)										
A. Manpack Radio Hardware Upgrade 137C to 137D										
FY 99	600	5.298	NSMA	Option	Classified	FEB 99	NOV 99	YES		
FY 00	413	5.385	NSMA	Option	Classified	NOV 99	DEC 00			
B. General Purpose HF Radios										
FY 98	75	16.436	USSOCOM	Option	Harris, Rochester, NY	JUL 98	OCT 98	YES		
FY 99	168	17.411	USSOCOM	Option	Harris, Rochester, NY	FEB 99	JUN 99	YES		
FY 00	100	17.706	USSOCOM	Option	Harris, Rochester, NY	DEC 99	MAR 00	YES		
FY 01	138	18.021	USSOCOM	Option	Harris, Rochester, NY	DEC 00	MAR 00	YES		
C. Vehicle Kits										
FY 99	31	14.548	NAWC-AD	PO	Various	DEC 98	APR 99	YES		
FY 00	21	14.822	NAWC-AD	PO	Various	DEC 99	APR 99	YES		
FY 01	110	15.073	NAWC-AD	PO	Various	DEC 00	APR 00	YES		
D. Transportable Base Station (TBD) Upgrade										
FY 99	31	9.194	NSMA	Option	Classified	FEB 99	NOV 99	YES		
FY 00	22	9.644	NSMA	Option	Classified	NOV 99	DEC 00	YES		
D. REMARKS										



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2. NAVAL SPECIAL WARFARE TACTICAL RADIO SYSTEM										
A. Hardware										
FY 00	12	72.667	NAWC-AD	PO	Various	DEC 99	JUN 00	YES		
3. MULTI-BAND/MULTI-MISSION RADIO (MBMMR)										
A. Manpack Hardware										
FY 99	152	26.483	USSOCOM	C/FFP	TBD	AUG 99	JAN 00	NO*	MAR 99	
FY 00	230	26.920	USSOCOM	Option	TBD	MAR 00	JUL 00	NO*	MAR 99	
FY 01	201	27.381	USSOCOM	Option	TBD	OCT 00	NOV 00	NO*	MAR 99	
B. Vehicular Hardware										
FY 99	80	42.587	USSOCOM	C/FFP	TBD	AUG 99	JAN 00	NO*	MAR 99	
FY 00	118	43.290	USSOCOM	Option	TBD	MAR 00	JUL 00	NO*	MAR 99	
FY 01	155	44.041	USSOCOM	Option	TBD	OCT 00	MAR 01	NO*	MAR 99	
4. MULTI-BAND INTER/INTRA TEAM RADIO (MBITR)										
A. Urban Hardware										
FY 99	708	4.473	USSOCOM	Option	Racal, Rockville, MD	JUN 99	SEP 99	YES		
FY 00	439	4.761	USSOCOM	Option	Racal, Rockville, MD	OCT 99	MAY 00	YES		
D. REMARKS: *A Statement of Objectives is to be issued. Venders will provide specifications in their proposals.										

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A. Urban Hardware (Cont) FY 01	150	5.034	USSOCOM	Option	Racal, Rockville, MD	OCT 00	DEC 00	YES		
B. Maritime Radio Hardware FY 99	306	4.823	USSOCOM	Option	Racal, Rockville, MD	JUN 99	SEP 99	YES		
FY 00	362	4.994	USSOCOM	Option	Racal, Rockville, MD	OCT 99	MAY 00	YES		
FY 01	381	5.283	USSOCOM	Option	Racal, Rockville, MD	OCT 00	NOV 00	YES		
5. CONDOR A. Cellular Phones FY 99	1,414	0.990	PM MILSATCOM	FFP	TBD	APR 99	SEP 99	NO	APR 99	
FY 00	258	1.012	PM MILSATCOM	Option	TBD	APR 00	SEP 00	NO	APR 99	
6. MINIATURE MULTIBAND BEACON FY 01	104	10.000	USSOCOM	Option	Sierra Monolithics Redondo Beach, CA	NOV 00	JUN 01	NO	AUG 00	
7. SOF TACTICAL ASSURED CONNECTIVITY SYSTEMS (SOFTACS) A. SOFTACS Hardware FY 00	6	1,377.667	PM/SATCOM	Option	Raytheon, Marlboro, MA	OCT 99	DEC 00	YES		
FY 01	4	1,358.000	PM/SATCOM	Option	Raytheon, Marlboro, MA	OCT 00	OCT 01	YES		
H. ATM/DMS ETI FY 00	13	35.000	PM/SATCOM	C/FFP	TBD	MAR 00	JUN 00	YES		
D. REMARKS:										

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H. ATM/DMS ETI (Cont) FY 01	5	37.000	PM/SATCOM	Option	TBD	OCT 00	MAR 01	YES		
I. Switch ETIs FY 00	21	25.143	PM/SATCOM	C/FFP	TBD	MAR 00	JUN 00	YES		
FY 01	38	25.500	PM/SATCOM	Option	TBD	OCT 00	MAR 01	YES		
J. DAMA ETI FY 00	10	52.900	PM/SATCOM	C/FFP	TBD	MAR 00	JUN 00	YES		
K. KA Band ETI FY 01	15	342.400	PM/SATCOM	C/FFP	TBD	MAR 01	JUN 01	YES		
L. Net Encryption System ETI FY 01	20	26.900	PM/SATCOM	C/FFP	TBD	MAR 01	JUN 01	YES		
M. Local Area Net ETIs FY 00	2	179.500	PM/SATCOM	C/FFP	TBD	MAR 00	JUN 00	YES		
FY 01	7	184.429	PM/SATCOM	Option	TBD	OCT 00	APR 01	YES		
N. External Triband Antenna FY 99	4	754.500	PM/SATCOM	C/FFP	TBD	JUN 99	DEC 00	YES		
FY01	4	782.000	PM/SATCOM	Option	TBD	OCT 00	MAR 01	YES		
D. REMARKS:										