

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>
---	--

COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	603.325	15.349	26.519	32.766	-	32.766	-	-	-	-	-	-
S400: <i>SO Intelligence Systems</i>	603.325	15.349	26.519	32.766	-	32.766	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This program element is part of the Military Intelligence Program (MIP) that provides for the identification, development, rapid prototyping and testing of Special Operations Forces (SOF) intelligence equipment to identify and eliminate deficiencies in providing timely intelligence to deployed forces. Sub-projects address the primary areas of intelligence dissemination, sensor systems, tagging, tracking, and locating devices, integrated threat warning to SOF mission platforms, biometrics and forensic site exploitation and tactical exploitation of national system capabilities. United States Special Operations Command (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 employ the latest standards and technology by transitioning from separate systems to full integration with the Global Information Grid (GIG). The GIG allows SOF elements to operate with any force combination in multiple environments. These technologies will be pursued via rapid prototyping efforts when appropriate.

The FY 2022 funding request was reduced by \$1.759 million to account for the availability of prior year execution balances.

FY 2022 Fiscal Balancing: -\$1.292 million decrease is attributed to the reductions necessary to accommodate budget realities and directed strategy driven changes. Reduces Joint Threat Warning System development and testing of SOF peculiar Space payloads.

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	15.484	19.558	20.142	-	20.142
Current President's Budget	15.349	26.519	32.766	-	32.766
Total Adjustments	-0.135	6.961	12.624	-	12.624
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-0.039			
• Congressional Rescissions	-	-			
• Congressional Adds	-	7.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-0.135	-	12.624	-	12.624

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>
---	--

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: S400: *SO Intelligence Systems*

Congressional Add: *SSE - DOMEX Program*

	FY 2020	FY 2021
Congressional Add Subtotals for Project: S400	-	7.000
Congressional Add Totals for all Projects	-	7.000

Change Summary Explanation

Funding:

FY 2020: Decrease of \$0.135 million was made available to support emerging command requirements in the year of execution.

FY 2021: Net increase of \$6.961 million is due to Congressional add to continue rapid test and evaluation of emerging Biometric and Forensic technology (\$7.000 million) and a Defense Wide (DW) non-programmatic reduction (\$0.039 million).

FY 2022: Net increase of \$12.624 million is due to USSOCOM conducting a comprehensive analysis of future capabilities in support of the Interim National Security Strategy Guidance (INSSG). The National Systems Support to SOF (NSSS) program received increased funds (\$4.815 million) to further the innovation and development of space-based Intelligence, Surveillance, and Reconnaissance (ISR) technologies and system enhancements, and rapid prototype development for transition to existing SOCOM programs of record. JTWS funding decreased (-\$1.318 million) due to the Maritime variant transitioning into production. Increased funds to HF-TTL (\$4.553 million) and TVS/RSTA (\$1.681 million) will support Unmanned Aerial Systems (UAS) and space-based development efforts; pursue alternate precision, navigation, and timing (ALT PNT) and Low Probability of Intercept/Low Probability of Detection (LPI/LPD) Government-off-the-Shelf (GOTS) capabilities; and Unattended Ground and Maritime sensor integration efforts. The following decreases were made in support of critical emerging command priorities: ISP (-\$0.036 million); SOFPREP (-\$0.012 million); SSE (-\$0.105 million). Classified details for the increase of (\$2.481 million) are provided under separate cover. Silent Dagger funding increase (\$0.565 million) supports research and development for modernization of Signals Intelligence Processing, Exploitation, Dissemination (SIGINT PED) capability and technology insertion roadmap efforts; funding was transferred from PE 0305208BB; Project S400A, Distributed Common Ground/Surface Systems.

Schedule: None.

Technical: None.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command										Date: May 2021		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>				Project (Number/Name) S400 / <i>SO Intelligence Systems</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
S400: <i>SO Intelligence Systems</i>	603.325	15.349	26.519	32.766	-	32.766	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This sub-project is part of the Military Intelligence Program (MIP). Provides for the identification, development, testing, and rapid prototyping of Special Operations Forces (SOF) intelligence equipment to identify and eliminate deficiencies in providing timely intelligence to deployed forces. Sub-projects address the primary areas of intelligence dissemination, sensor systems, tagging, tracking, and locating devices, integrated threat warning to SOF mission platforms, and SOF-unique support from space systems, including Tactical Exploitation of National System Capabilities (TENCAP). The systems developed and tested in this line item are National Systems Support to SOF (NSSS); Joint Threat Warning System (JTWS); Hostile Forces - Tagging, Tracking, and Locating (HF-TTL); Special Operations Tactical Video System/ Reconnaissance, Surveillance, and Target Acquisition (TVS/RSTA); SOF Planning, Rehearsal and Execution Preparation (SOPREP); Integrated Survey Program (ISP); Sensitive Site Exploitation (SSE); and Silent Dagger (SDAG).

United States Special Operations Command (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 employ the latest standards and technology by transitioning from separate systems to full integration with the Global Information Grid (GIG). The GIG allows SOF elements to operate with any force combination in multiple environments. The intelligence programs funded in this project will meet annual emergent requirements.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2020	FY 2021	FY 2022
Title: NSSS	0.862	0.879	5.712
Description: NSSS provides research and development, and rapid prototyping to support HQ SOCOM TENCAP program and supporting capabilities. NSSS improves the combat effectiveness of USSOCOM, its components, and the Theater Special Operations Commands (TSOC) by providing innovative space-based Intelligence, Surveillance, and Reconnaissance (ISR) technologies and system enhancements, products, and special communications capabilities to tactical SOF units. NSSS leverages current and developmental National systems to integrate with, augment, and support SOCOM systems. Focus areas include Geo-spatial Intelligence (GEOINT), Signals Intelligence (SIGINT), Special Communications, and intelligence fusion, reporting, and dissemination. NSSS efforts are characterized by rapid prototype development to transition to SOCOM Programs of Record.			
FY 2021 Plans:			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>	Project (Number/Name) S400 / <i>SO Intelligence Systems</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p>Continue development of SOF-required prototype capabilities, primarily through leveraging current or developing technologies and assets, while coordinating with SOCOM operators and Programs of Record for production and operational fielding of successful capabilities. Emphasis areas include ISR support for Tagging, Tracking, and higher-accuracy Geo-locating of hostile and friendly forces, especially in low sensor density environments, and providing timely intelligence to deployed forces.</p> <p>FY 2022 Plans: Continues development of SOF-required prototype capabilities, primarily through leveraging current or developing technologies and assets, while coordinating with SOCOM operators and Programs of Record for production and operational fielding of successful capabilities. Emphasis areas include development of the Combined Intelligence Picture-All Source transceiver capability that leverages existing national space assets and long range precision fires integration with space based systems.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$4.833 million is due to USSOCOM conducting comprehensive analysis of future capabilities and added funds to NSSS program in support of the Interim National Security Strategy Guidance (INSSG). These additional funds will support the development of software and hardware to improve SOF access, content, and timeliness of data from national and commercial space assets in near peer threat environments.</p>				
<p>Title: JTWS</p> <p>Description: The JTWS System of Systems (SoS) enables the SOF Cryptologic and Cyber Enabling Joint Operator to collect, process, locate and exploit threat communications signals of interest in order to provide timely, relevant, and responsive intelligence, networked, cross-cueing, enhanced target acquisition, and threat warning avoidance information directly to SOF Commanders. Intelligence gathered is then transposed to National Databases. The JTWS is focused on multiple areas; Ground, Maritime, Air; Unmanned Aerial Systems (UAS), and Cyber Enabling. Each area has additional requirements for Communications Intelligence, Electronic Intelligence, and Precision Geo-location.</p> <p>FY 2021 Plans: Continue modular/scalable, open architecture, development and testing (D&T), and software defined solutions. Continue development of technologies with a focus on Near Peer signals of interest (SOIs). Focus hardware and software improvements that cyber harden our kits for Great Power Competition. Begin technical evaluation of machine learning and human language translation technology insertion into our existing systems to reduce SOF Operator workload. Perform developmental and operational testing on Maritime Electronic Intelligence capability for rapid fielding and deployment.</p> <p>FY 2022 Plans: Continues D&T of modular/scalable, open architecture, and software defined solutions. Continues efforts directed towards the modularity of technologies. Begins the development of software defined, cyber hardened technologies. Continues technical</p>		11.890	14.362	11.661

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>	Project (Number/Name) S400 / <i>SO Intelligence Systems</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p>evaluation of machine learning and human language translation technologies for all variants in order to reduce SOF operator workload. Continues improvement of technology for Near Peer signals of interest.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Decrease of \$2.701 million is due to the Maritime Variant moving from Research & Development to Production.</p>				
<p>Title: HF-TTL</p> <p>Description: This program provides SOF with the necessary tools to find, fix, and finish target assets through the emplacement of sophisticated tags and devices that feed into an integrated architecture. HF-TTL provides Global Combatant Commanders (GCC) and SOF operators with an immediate capability to tag, track, and locate people, things, and activities. The HF-TTL program provides actionable intelligence for SOF mission planners. The mission sets comprise a mix of different classes of tags and their associated detection, interrogation, viewing, tracking, and communications systems that are fielded annually to SOF Components and TSOC based upon dynamic and emergent SOF operational requirements.</p> <p>FY 2021 Plans: Continue rapid prototyping, specialized device modifications, product development support, integration and operational testing and evaluation in support of UAS payload integration, maritime specialized tags development, and Low Probability of Intercept/Low Probability of Detection (LPI/LPD) waveform refinements.</p> <p>FY 2022 Plans: Continues integration and operational testing and evaluation in support UAS payload integration LPI/LPD waveform refinement, and small satellite payload development efforts.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$4.960 million is to support development efforts associated with a multi-tag TTL receiver payload for small satellite integration and testing.</p>		1.078	1.440	6.400
<p>Title: TVS/RSTA</p> <p>Description: This program provides SOF with critical Special Reconnaissance (SR) equipment that directly supports the planning and execution of SOF missions. This capability allows the SOF warfighter to meet SOF SR mission requirements to find, fix, finish, exploit, analyze, and disseminate information of an adversary's movement, construct, identification, location, and associated activities. TVS/RSTA provides Global Combatant Commands and SOF operators with an immediate capability to visually and electronically acquire people, things, and activities and provides actionable intelligence for SOF planners and Commanders. The program Family of Systems (FoS) consists of interoperable equipment to capture and transfer near-real-time ground-based, tactical day/night/reduced visibility, imagery, video, and electronic proximity and movement sensing, all capable of dissemination through SOF organic, global C4I, and commercial communications infrastructures.</p>		0.669	1.134	3.117

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>	Project (Number/Name) S400 / <i>SO Intelligence Systems</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p><i>FY 2021 Plans:</i> Continue specialized device modifications, integration and operational testing and evaluation.</p> <p><i>FY 2022 Plans:</i> Continues specialized device modifications for Unattended Ground and Maritime Sensors (UGS/UMS), integration with small satellite receiver payloads and operational testing and evaluation.</p> <p><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> Increase of \$1.983 million will support development efforts associated with a UGS receiver payload for small satellite integration and testing.</p>				
<p><i>Title:</i> SOFPREP</p> <p><i>Description:</i> This program serves as the intelligence focal point for production of SOF enhanced GEOINT (maps, imagery, and terrain data) and three dimensional (3D) scene visualization databases. SOFPREP gathers, processes, exploits, disseminates, and manages classified high resolution 3D databases and GEOINT data in support of SOF training, mission rehearsal, and execution preparation systems. The program builds the SOF common geospatial environment and manages the authoritative database of SOF-specific GEOINT terrain data. SOFPREP is a National Geospatial-Intelligence Agency (NGA) certified co-producer in support of time-sensitive SOF specific requirements.</p> <p><i>FY 2021 Plans:</i> Continue testing and evaluation of operational prototype systems and Artificial Intelligence/Machine Learning (AI/ML) tools to speed production of correlated high resolution 3D geospatial databases.</p> <p><i>FY 2022 Plans:</i> Continues testing and evaluation of operational prototype systems and AI/ML tools to speed production of correlated high resolution 3D geospatial databases.</p> <p><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> Decrease of \$0.006 million is due to funding made available to support higher Command priorities in the year of execution.</p>		0.280	0.287	0.281
<p><i>Title:</i> ISP</p> <p><i>Description:</i> This program collects and produces current, detailed, tactical planning data to support military operations to counter threats against U.S. citizens, interests, and property located both domestically and overseas. ISP products are specifically tailored packages that provide operational information, as well as intelligence data for use by DOD and the U.S. Department of State to support operational planners for counter-terrorism operations, evacuations, and other rescue missions.</p>		0.415	0.803	0.797

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>	Project (Number/Name) S400 / <i>SO Intelligence Systems</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
<p><i>FY 2021 Plans:</i> Continue development and rapid fielding of ISP system and products to integrate with enterprise architecture and support the latest standards and technology.</p> <p><i>FY 2022 Plans:</i> Continues development and rapid fielding of ISP system and products to integrate with enterprise architecture and support the latest standards and technology.</p> <p><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> Decrease of \$0.006 million is due to funding made available to support emerging critical Command requirements in the year of execution.</p>			
<p><i>Title:</i> SSE</p> <p><i>Description:</i> This program uses rapid test and evaluation of emerging Biometric and Forensic technology to provide state-of-the-art capabilities to the warfighter for the exploitation of documents, electronic data, materiel, and forensic evidence on sensitive sites/objectives. Biometric kits collect and transmit unique, measurable biometric signatures from personnel, including live/latent fingerprints, iris patterns, and facial features. It also provides a means to verify against and enroll subjects into the DOD authoritative database, and to query that database to support hold or release decisions. Forensic kits enable on-objective linking of events to specific persons through chemical analysis, latent fingerprints, cell phones and computer data analysis, and deoxyribonucleic acid collection. Exploitation Analysis Centers provide theater-level mobile forensic capabilities for more in-depth exploitation of collected exploitable material.</p> <p><i>FY 2021 Plans:</i> Identify and acquire next generation equipment with a focus on touchless/cableless systems to extract and exploit data resident on digital media. Explore emerging capabilities to collect and process DNA samples from live and latent sources under ambient conditions. Continue technical evaluation of new technologies with an increase of test events.</p> <p><i>FY 2022 Plans:</i> Continues development of software applications to enable biometric signature collection, increased volumes of collectible exploitable material (CEM) to include documents, cell phones, and electronic media, and to counter advancements in encryption and countermeasures which makes access to collectible material more difficult. Continues new touchless development of hardware and software applications to collect biometric signatures and CEM on small mobile computer devices (tablets, smart phones, etc.) and to rapidly advise SOF Operators of matches to authoritative biometric databases and relevancy of CEM in order to facilitate subsequent operations and answer priority intelligence requirements.</p> <p><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i></p>	0.155	0.614	1.752

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021	
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>	Project (Number/Name) S400 / <i>SO Intelligence Systems</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021
Increase of \$1.138 million will support development efforts for forensic and rapid Deoxyribonucleic acid (DNA) exploitation capability and testing.			
Title: SOF Signals Intelligence (SIGINT) Silent Dagger (SDAG)		-	-
Description: SOF Signals Intelligence (SIGINT) Processing, Exploitation, Dissemination PED (SDAG) is family of products and services providing Intelligence, Surveillance, and Reconnaissance (ISR), and analytical capabilities at the Joint Task Force level and below through a combination of reach-back, forward support and collaboration. The Program supports all Components and TSOCs with capability that interconnects Warfighters, Sensors, and Analytic Tools to “Find and Fix” Enemy Combatants and/or Terrorists as well as information sharing across the SOCOM Enterprise and DOD. SIGINT PED provides SIGINT exploitation capability in both garrison and deployed environments. These capabilities will be pursued via rapid fielding techniques when appropriate.			0.565
FY 2022 Plans: Continues technology development, and integration of emerging technologies and capabilities enhancements for requirements including but not limited to: Advanced analytics, User Interfaces (UI), cloud computing, machine learning, and disconnected operations. Continues limited Objective Events and exercise participation to test integration of emerging technologies and obtain user feedback of items in development.			
FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$0.565 million is due to a transfer of SDAG funding from PE 0305208BB/Distributed Common Ground/Surface Systems.			
Title: Classified Sub-Project		0.000	-
Description: Classified Sub-Project (provided under separate cover).			2.481
FY 2022 Plans: Details provided under separate cover.			
FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$2.481 million will be provided under separate cover.			
Accomplishments/Planned Programs Subtotals		15.349	19.519
		FY 2020	FY 2021
Congressional Add: SSE - DOMEX Program		-	7.000

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>	Project (Number/Name) S400 / <i>SO Intelligence Systems</i>

	FY 2020	FY 2021
FY 2021 Plans: Identify and acquire next generation equipment with a focus on touchless/cableless systems to extract and exploit data resident on digital media. Explore emerging capabilities to collect and process DNA samples from live and latent sources under ambient conditions. Continue technical evaluation of new technologies with an increase of test events.		
Congressional Adds Subtotals	-	7.000

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC/020400INTL: <i>Intelligence Systems</i>	118.341	111.216	131.889	-	131.889	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

- NSSF introduces and integrates national systems capabilities into the SOF force structure and operations. This is accomplished by partnering with existing Intelligent Community and SOCOM programs of record to incorporate SOF mission requirements into current and developing technologies and assets. This leveraging of funds increases national and commercial systems awareness, demonstrates the tactical utility of national systems and commercial data, test technologies and evaluates operational concepts in biennial Joint Staff Special Projects, and allows for the transition of promising concepts and technologies to other SOF program offices for execution.
- JTWS is a SoS leveraging Commercial Off The Shelf (COTS)/Government Off The Shelf (GOTS) systems, as well as partnerships with other government agencies. The Program of Record (POR) will leverage capabilities requiring minimal modifications wherever possible. JTWS is making deliberate investments to evolve the program into modular/scalable systems with a framework supporting open architecture, software database and cyber hardened solutions. JTWS will address the continuously evolving Great Power Competition environments on the Ground, Air, Maritime, Unmanned Aerial System variants, leverage existing partnerships with other government agencies in order to integrate and sustain next generation need, from the Joint Components and as emerging threats require technology modernizations. The contracting strategy is a mixture of full and open competition for prime integrators, broad area announcements, and existing Indefinite Delivery/Indefinite Quantity (IDIQ) contracts.
- HF-TTL utilizes an evolutionary acquisition strategy to provide highly sophisticated TTL and close target audio/video devices capable of operating in various environments as needed to meet SOF operational requirements. Commercial and government agency sources will be leveraged for required certifications, device level modifications, integration, functional, and operational testing and evaluations.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>	Project (Number/Name) S400 / <i>SO Intelligence Systems</i>
<ul style="list-style-type: none"> • TVS/RSTA employs an evolutionary strategy to incorporate the latest state of technology within its product line to provide upgraded next-generation technology insertion of COTS systems and address the changing threat environment to meet SOF reconnaissance and surveillance mission requirements. Commercial and government agency sources will be leveraged for required certifications, system level integration, functional, and operational testing and evaluations. • SOFPREP uses a rapid acquisition strategy to facilitate rapid and iterative delivery of digital products to meet emerging SOF requirements. Commercial, open and government sources are leveraged for required certifications, system level integration, functional, and operational testing and evaluations. • ISP uses a rapid acquisition strategy to facilitate rapid and iterative delivery of digital products to meet emerging SOF requirements. Commercial, open and government sources are leveraged for required certifications, system level integration, functional, and operational testing and evaluations. • SSE uses a rapid acquisition strategy to provide next-generation technologies for collection, processing, exploitation and dissemination capabilities supporting SOF exploitation mission requirements. Commercial and government agency sources are leveraged for required certifications, system level integration, functional, and operational testing and evaluations. • SDAG is a system of systems leveraging National services, controlled commercial hardware, and SOF specific capabilities, acquired through contracts and partnerships with Other Government Agencies (OGA). The Program represents SOF equities to OGAs, programs, and National capabilities sponsors to innovate capability for SOF SIGINT PED. The acquisition strategy is a mixture of agency partnerships and government capability providers leveraging open competition with controlled supply chains. 		

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>	Project (Number/Name) S400 / <i>SO Intelligence Systems</i>
--	--	---

Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
National Systems Support to SOF (NSSS)	MIPR	Various : Various	55.260	0.862	Feb 2020	0.879	Feb 2021	5.712	Feb 2022	-		5.712	Continuing	Continuing	-
Joint Threat Warning System (JTWS) - All Variants (Air, Ground, Maritime, and Unmanned)	MIPR	Various : Various	111.003	7.485	Jan 2020	8.762	Feb 2021	9.798	Feb 2022	-		9.798	Continuing	Continuing	-
Hostile Forces-Tagging Tracking, and Locating (HF-TTL)	C/CPFF	Various : Various	4.884	0.854	Feb 2020	1.152	Feb 2021	4.759	Mar 2022	-		4.759	Continuing	Continuing	-
Tactical Video System/ Reconnaissance, Surveillance, & Target Acquisition (TVS/RSTA)	MIPR	Various : Various	0.957	0.402	Jul 2020	0.851	Jan 2021	1.839	Mar 2022	-		1.839	Continuing	Continuing	-
Integrated Survey Program (ISP) - Development, Test and Evaluation	C/FFP	Various : Various	2.320	0.415	Jan 2020	0.803	Jan 2021	0.797	Jan 2022	-		0.797	Continuing	Continuing	-
Sensitive Site Exploitation-Development (Cong Add)	Various	Various : Various	-	-		4.200	May 2021	-		-		-	Continuing	Continuing	-
Independent Verification and Validation - SOF Signals Intelligence Processing Exploitation, and Dissemination (SOF SIGINT PED)	MIPR	Various : Various	-	-		-		0.565	Apr 2022	-		0.565	Continuing	Continuing	-
Classified Sub-Project	C/TBD	TBD : TBD	-	-		-		2.481		-		2.481	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	164.397	-		-		-		-		-	0.000	164.397	-
Subtotal			338.821	10.018		16.647		25.951		-		25.951	Continuing	Continuing	N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>	Project (Number/Name) S400 / <i>SO Intelligence Systems</i>
--	--	---

Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
JTWS Chamber Access/ SOI Emitters	MIPR	Various : Various	56.018	4.105	Jun 2020	4.800	May 2021	0.800	May 2022	-		0.800	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	116.844	-		-		-		-		-	0.000	116.844	-
Subtotal			172.862	4.105		4.800		0.800		-		0.800	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
JTWS Integration/Test/ Test Support	Various	Various : Various	21.799	0.300	May 2020	0.800	Nov 2020	1.063	Nov 2021	-		1.063	Continuing	Continuing	-
HF-TTL	MIPR	ATEC : FT Huachuca, AZ	1.520	0.224	May 2020	0.288	May 2021	1.641	May 2022	-		1.641	Continuing	Continuing	-
TVS/RSTA - User Assessments	MIPR	ATEC : FT Huachuca, AZ	6.719	0.267	Nov 2020	0.283	Jan 2021	1.278	Mar 2022	-		1.278	Continuing	Continuing	-
SOPREP - Prototype Systems	C/FFP	Various : Various	1.022	0.280	Mar 2020	0.287	Mar 2021	0.281	Mar 2022	-		0.281	Continuing	Continuing	-
Sensitive Site Exploitation	MIPR	Various : Various	6.654	0.155	Feb 2020	0.614	May 2021	1.752	Jan 2022	-		1.752	Continuing	Continuing	-
Sensitive Site Exploitation (Cong Add)	Various	Various : Various	-	-		2.800	May 2021	-		-		-	0.000	2.800	-
Prior Year Funding - Completed Efforts	Various	Various : Various	53.928	-		-		-		-		-	0.000	53.928	-
Subtotal			91.642	1.226		5.072		6.015		-		6.015	Continuing	Continuing	N/A

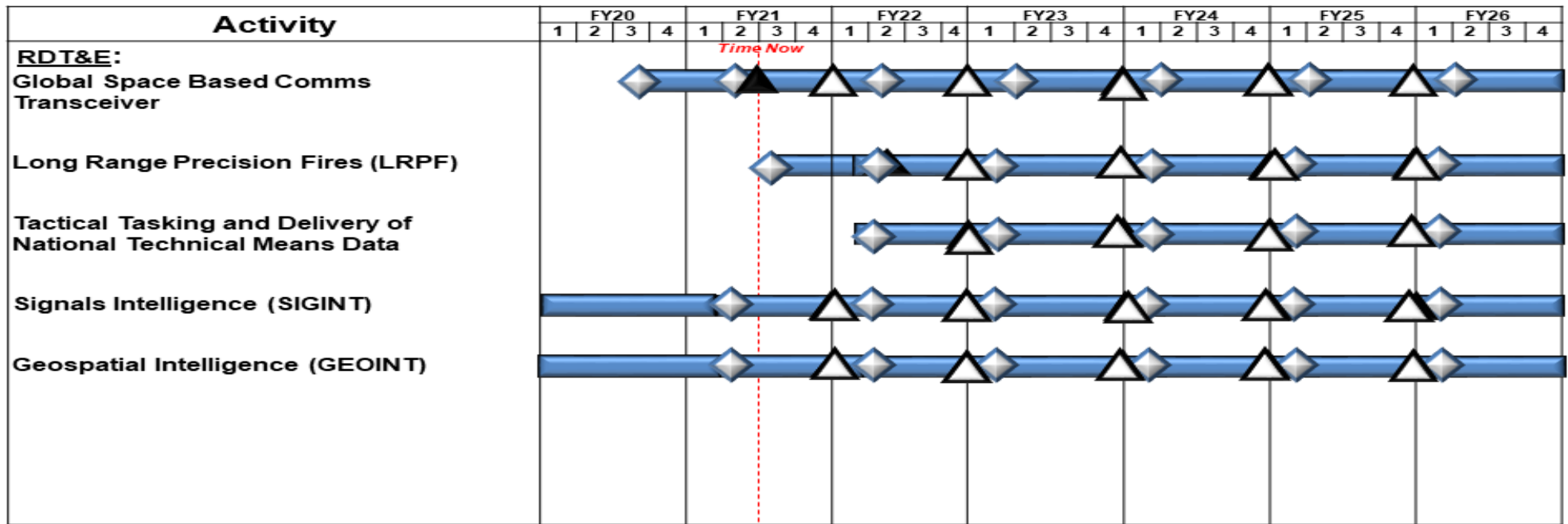
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		603.325	15.349	26.519	32.766	-	32.766	Continuing	Continuing	N/A

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>	Project (Number/Name) S400 / <i>SO Intelligence Systems</i>

National System Support To SOF (NSSS) / Tactical Exploitation of National System Capabilities (TENCAP) Schedule

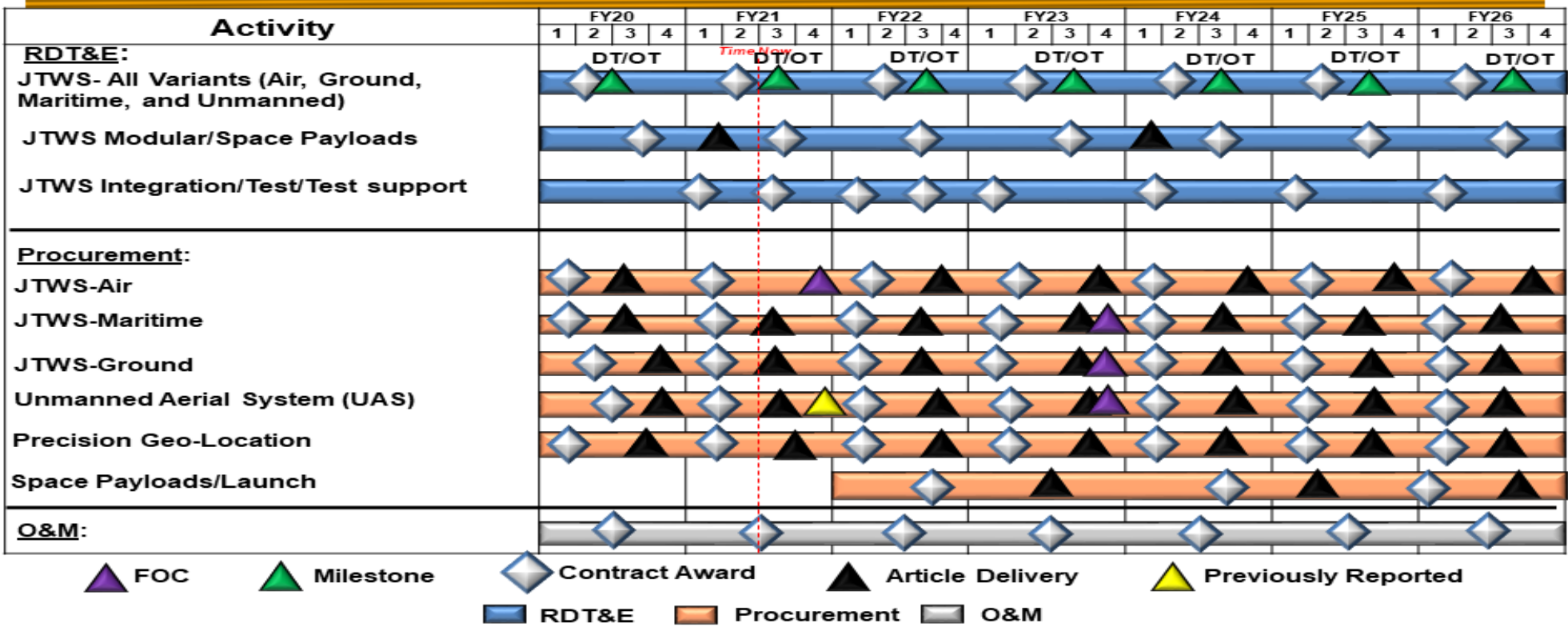


▲ Milestone
 ◆ Contract Award
 ▲ Article Delivery
 ■ RDT&E
 ■ Procurement
 ■ O&M
 ▲ Previously Reported

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / Intelligence Systems Development	Project (Number/Name) S400 / SO Intelligence Systems

Joint Threat Warning System (JTWS) Schedule

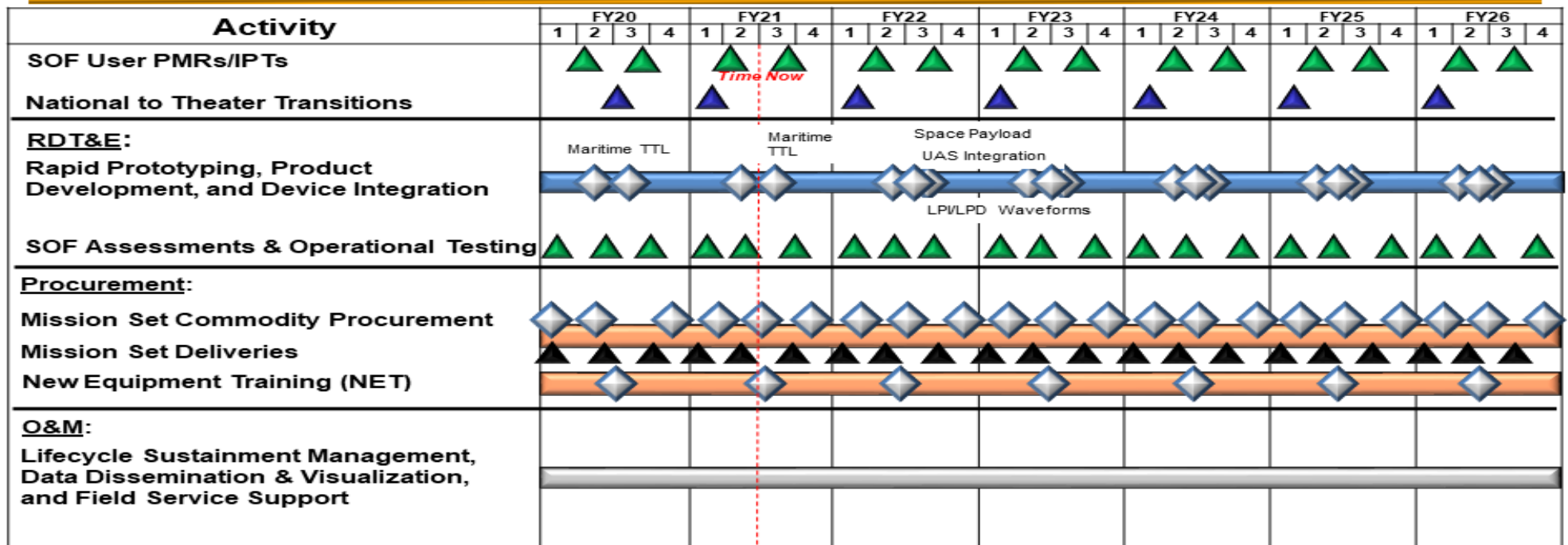


Appropriation/Budget Activity
0400 / 7

R-1 Program Element (Number/Name)
PE 1160405BB / Intelligence Systems Development

Project (Number/Name)
S400 / SO Intelligence Systems

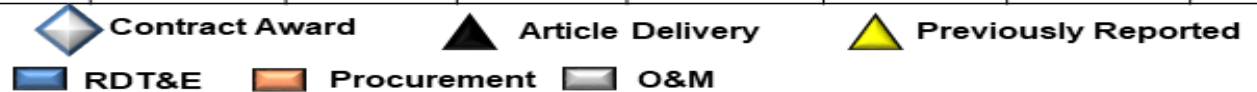
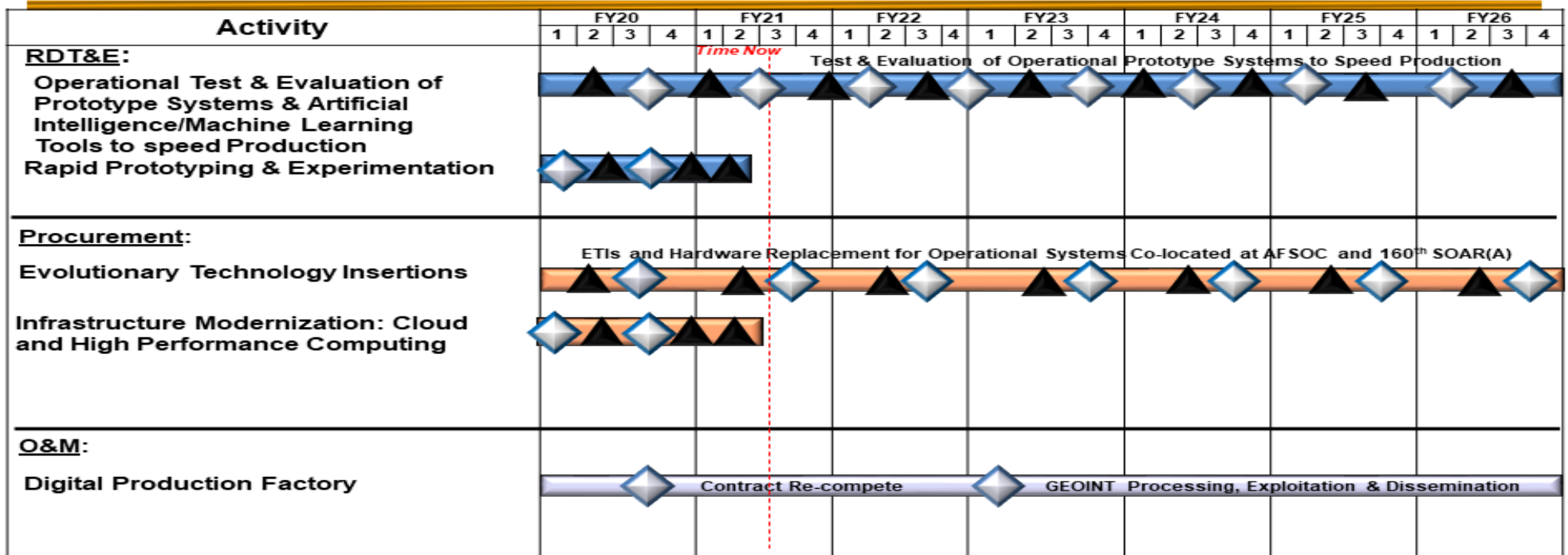
Hostile Forces-Tagging Tracking Locating Schedule



UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / Intelligence Systems Development	Project (Number/Name) S400 / SO Intelligence Systems

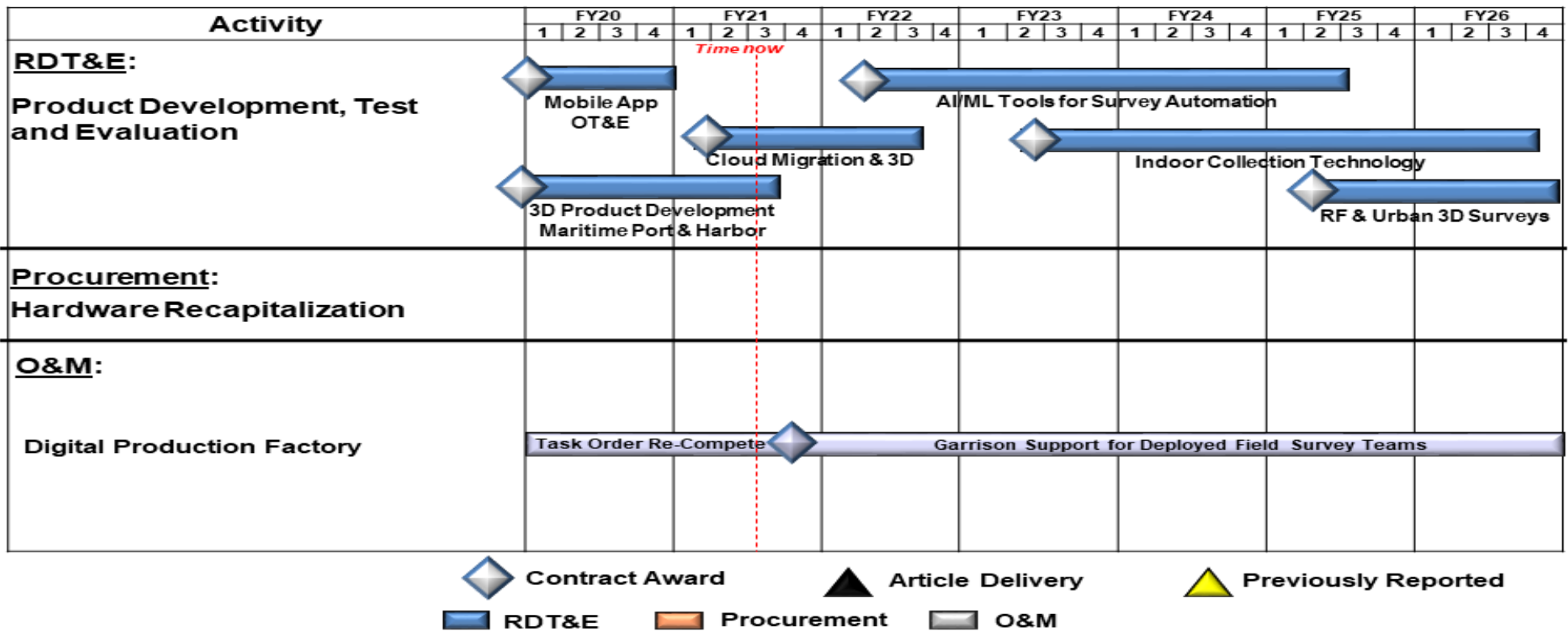
SOF Planning, Rehearsal and Execution Preparation (SOFPREP) Schedule



UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>	Project (Number/Name) S400 / <i>SO Intelligence Systems</i>

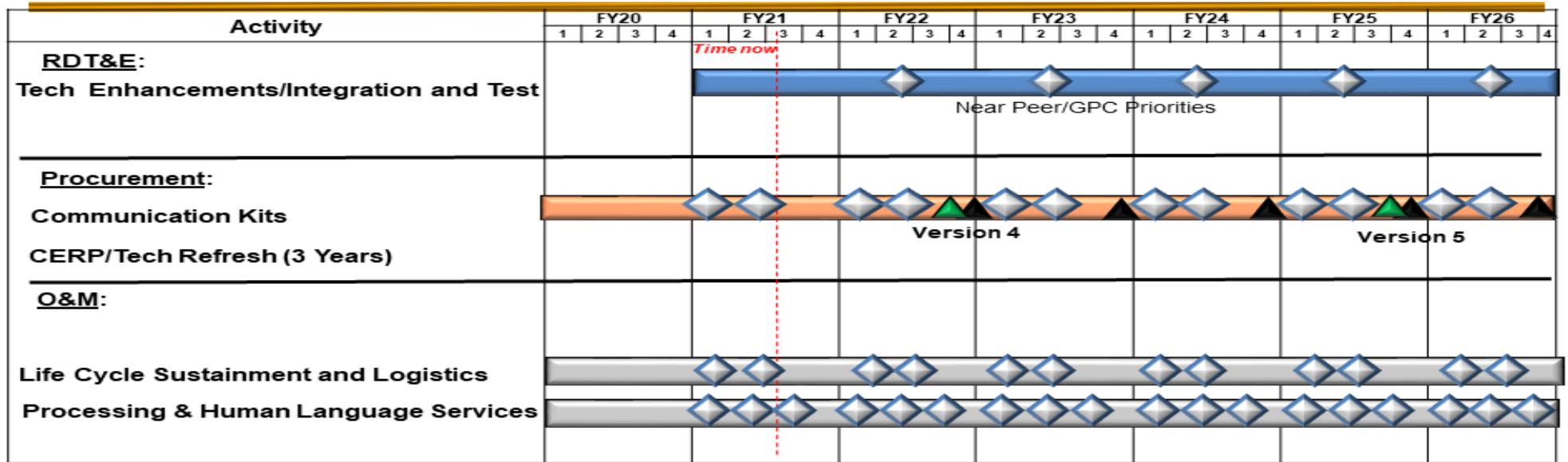
Integrated Survey Program (ISP)



UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2022 United States Special Operations Command		Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>	Project (Number/Name) S400 / <i>SO Intelligence Systems</i>

SOF Signals Intelligence (SIGINT) Silent Dagger (SDAG) Schedule



Note: For FY 2021 and prior, funding was displayed under schedule titled SIGINT PED in PE 0305208BB, Project S400A. Beginning FY 2022, funding is contained in PE 1160405BB Project S400 under schedule titled SDAG.

Note: Exercise & Limited Objective Events are depicted on ENT/ASIF and SGIP schedules.



UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>	Project (Number/Name) S400 / <i>SO Intelligence Systems</i>
--	--	---

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>National Systems Support to SOF (NSSS) Participation in Space Technology Development and Integration</i>				
Global Space Based Comms Transceiver	3	2020	4	2026
Long Range Precision Fires (LRPF)	3	2021	4	2026
Tactical Tasking and Delivery of National Technical Means Data	1	2022	4	2026
Signals Intelligence (SIGINT)	1	2020	4	2026
Geospatial Intelligence (GEOINT)	1	2020	4	2026
<i>Joint Threat Warning System (JTWS)</i>				
JTWS - All Variants (Air, Ground, Maritime, and Unmanned)	1	2020	4	2026
JTWS Modular/Space Payloads	1	2020	4	2026
JTWS Integration/Test/Test support	1	2020	4	2026
<i>Hostile Forces - Tagging, Tracking, and Locating (HF-TTL)</i>				
Rapid Prototyping, Product Development, and Device Integration	1	2020	4	2026
SOF Assessments and Operational Testing	1	2020	4	2026
<i>Special Operations Tactical Video System/Reconnaissance, Surveillance, and Target Acquisition (SOTVS/RSTA)</i>				
Product Development	1	2020	4	2026
User Assessments	1	2020	4	2026
<i>Special Operations Forces Planning, Rehearsal & Execution Preparation (SOFPREP)</i>				
Operational Test and Evaluation of Prototype Systems to speed production	1	2020	4	2026
Rapid Prototyping and Product Development	1	2020	2	2021
<i>Integrated Survey Program (ISP)</i>				

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1160405BB / <i>Intelligence Systems Development</i>	Project (Number/Name) S400 / <i>SO Intelligence Systems</i>
--	--	---

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Product Development, Test and Evaluation	1	2020	4	2026
<i>Sensitive Site Exploitation (SSE)</i>				
Technical evaluation of new technologies	1	2020	4	2026
Rapid Innovative Prototyping	3	2021	4	2022
<i>SOF Signals Intelligence (SIGINT) Silent Dagger (SDAG)</i>				
Tech Enhancements & Integration	1	2021	4	2026