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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 United States Special Operations Command **Date:** March 2023

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	67.351	5.994	6.095	6.214	-	6.214	5.854	6.066	6.187	6.311	Continuing	Continuing
S400A: <i>Distributed Common Ground/Surface Systems</i>	67.351	5.994	6.095	6.214	-	6.214	5.854	6.066	6.187	6.311	Continuing	Continuing

A. Mission Description and Budget Item Justification

This Program Element is part of the Military Intelligence Program (MIP). The Distributed Common Ground/Surface System Special Operations Forces (DCGS-SOF) is part of a family of systems providing rapid fielding of Intelligence, Surveillance, and Reconnaissance (ISR) Processing, Exploitation, Dissemination (PED), and analytical capabilities at the Combatant Commands (COCOM), Component/Theater Special Operations Commands (TSOC) level and below through a combination of reach back, forward support, and collaboration. The mission tailored infrastructure interconnects the warfighters, analysts, and sensors to find and fix high value targets and provides a network-enabled, interoperable construct allowing continual, unimpeded sharing of intelligence data, information and services with SOF and between the Services, national intelligence agencies, COCOMs, and multi-national partners. DCGS-SOF connects SOF warfighters and analysts with essential intelligence information and provides situational awareness information to SOF leadership at all echelons. The two components of DCGS-SOF are Enterprise/All Source Information Fusion (ENT/ASIF) and SOF Geospatial Intelligence Processing, Exploitation, and Dissemination (SGIP). ENT/ASIF provides infrastructure, processing, and intelligence analytical tools for worldwide SOF intelligence information sharing via a globally connected cloud based architecture as well as a forward disconnected capability. SGIP provides capabilities in garrison and deployed environments for the PED of crewed and uncrewed sensors.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	5.994	6.095	6.214	-	6.214
Current President's Budget	5.994	6.095	6.214	-	6.214
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

Funding:

FY 2022: None.

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FY 2023: None.

FY 2024: None.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 United States Special Operations Command										Date: March 2023		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>				Project (Number/Name) S400A / <i>Distributed Common Ground/Surface Systems</i>			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
S400A: <i>Distributed Common Ground/Surface Systems</i>	67.351	5.994	6.095	6.214	-	6.214	5.854	6.066	6.187	6.311	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project is part of the Military Intelligence Program (MIP). The Distributed Common Ground/Surface System Special Operations Forces (DCGS-SOF) is part of a family of systems providing rapid fielding of Intelligence, Surveillance, and Reconnaissance (ISR) Processing, Exploitation, Dissemination (PED), and analytical capabilities at the Combatant Commands (COCOM), Component/Theater Special Operations Commands (TSOC) level and below through a combination of reach back, forward support, and collaboration. The mission tailored infrastructure interconnects the warfighters, analysts, and sensors to find and fix high value targets and provides a network-enabled, interoperable construct allowing continual, unimpeded sharing of intelligence data, information and services with SOF and between the Services, national intelligence agencies, COCOMs and multi-national partners. DCGS-SOF connects SOF warfighters and analysts with the essential intelligence information and provides situational awareness information to SOF leadership at all echelons. The two components of DCGS-SOF are Enterprise/All Source Information Fusion (ENT/ASIF) and SOF Geospatial Intelligence Processing, Exploitation, and Dissemination (SGIP). ENT/ASIF provides infrastructure, processing, and intelligence analytical tools for worldwide SOF intelligence information sharing via a globally connected cloud based architecture as well as a forward disconnected capability. SGIP provides capabilities in garrison and deployed environments for the PED of crewed and uncrewed sensors.

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

	FY 2022	FY 2023	FY 2024
Title: DCGS-SOF Program Number 837	5.994	6.095	6.214
Description: The DCGS-SOF is composed of two major components: Enterprise/ASIF and SGIP. The DCGS-SOF develops and integrates SOF hardware and software networks that provide the United States Special Operations Command (USSOCOM) with unique decision capabilities to include: measurement and signature data; sensor exploitation; data compressions and man-portable workstations. The DCGS-SOF provides the supporting architecture to link the Global Sensor Network to those who will interpret the data for rapid transmission to collaborative partners via the SOF Information Environment (SIE).			
FY 2023 Plans: Continue technology development, integration of emerging technologies, software solutions and capability enhancements for DCGS-SOF ENT/ASIF requirements including but not limited to: advanced analytics; User Interfaces (UI); cloud computing; machine learning; and disconnected operations capability. Continue technology development, testing and integration of emerging technologies for SGIP. Continue DCGS-SOF Limited Objective Events and exercise participation to test integration of emerging technologies and obtain user feedback of items in development.			
FY 2024 Plans:			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024
Provides technical integration of software tools and interoperability for data ingress/egress within the software acquisition pathway's agile practice for ASIF analysts. Continues technology development, integration of emerging technologies, software solutions and capabilities enhancements for DCGS-SOF ENT/ASIF requirements including but not limited to: advanced analytics; UI; cloud computing; machine learning; and disconnected operations capability. Continues technology development, testing and integration of emerging technologies for SGIP. Continues DCGS-SOF support training, Limited Objective Events, and exercise participation to test integration of emerging technologies and obtain user feedback of items in development. FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$0.119 million funds continued development, integration, and modernization efforts, as well as associated program support.			
Accomplishments/Planned Programs Subtotals	5.994	6.095	6.214

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
• PROC/020401INTL: <i>Distributed Common Ground/Surface System</i>	5.991	2.214	5.718	-	5.718	4.175	3.037	3.952	4.031	Continuing	Continuing

Remarks

D. Acquisition Strategy

The DCGS SOF ENT/ASIF employs the software acquisition pathway to facilitate rapid and iterative delivery of operational software to meet dynamic SOF requirements. DCGS-SOF leverages SOF programs, Department of Defense (DoD) and Intelligence Community partners, national labs, and other government agencies to integrate Commercial Off The Shelf/Government Off The Shelf, hardware and software solutions, and other mature technologies into the Program of Record which will reside partially within the SOF Information Enterprise combined with Web-Client tools in a global cloud. These alliances enable more agile access to (searchable, discoverable) and sharing of larger data domains and services to meet SOF-peculiar, documented requirements. The technology allows for seamless integration and federation with DoD, Interagency, and Coalition tactical ISR PED systems. The USSOCOM employs an agile software development process with capability insertions into the development baseline for assessment and future deployment into the operational baseline. All development requirements are prioritized through the DCGS SOF USER Group chaired by the USSOCOM. Once approved, the requirements are evaluated and scheduled by engineering development teams. Using this methodology allows capabilities to be inserted in a fast and agile manner based on user requirements and priorities. All Evolutionary Technology Insertions (ETIs) contained in the subsequent Exhibit R-4, RDT&E Schedule Profile, are based on current projections. As requirements evolve, based on the DCGS-SOF Working Group decisions, the ETI and version capabilities identified are subject to change.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 United States Special Operations Command **Date:** March 2023

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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Enterprise / All Source Information Fusion (ENT/ASIF) - Development and Integration	Various	Various : Various	17.407	3.732	Jan 2022	4.493	Jan 2023	3.453	Mar 2024	-		3.453	Continuing	Continuing	-
SOF Geospatial Intelligence Processing Exploitation, and Dissemination (SGIP) - Capabilities Modernization	Various	Various : Various	20.490	0.600	Jan 2022	0.750	Jan 2023	1.000	Apr 2024	-		1.000	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	5.553	-		-		-		-		-	0.000	5.553	-
Subtotal			43.450	4.332		5.243		4.453		-		4.453	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
(ENT/ASIF) Program Support	C/FFP	Various : Various	8.082	1.225	Mar 2022	0.591	Jul 2023	1.500	Jun 2024	-		1.500	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	0.576	-		-		-		-		-	0.000	0.576	-
Subtotal			8.658	1.225		0.591		1.500		-		1.500	Continuing	Continuing	N/A

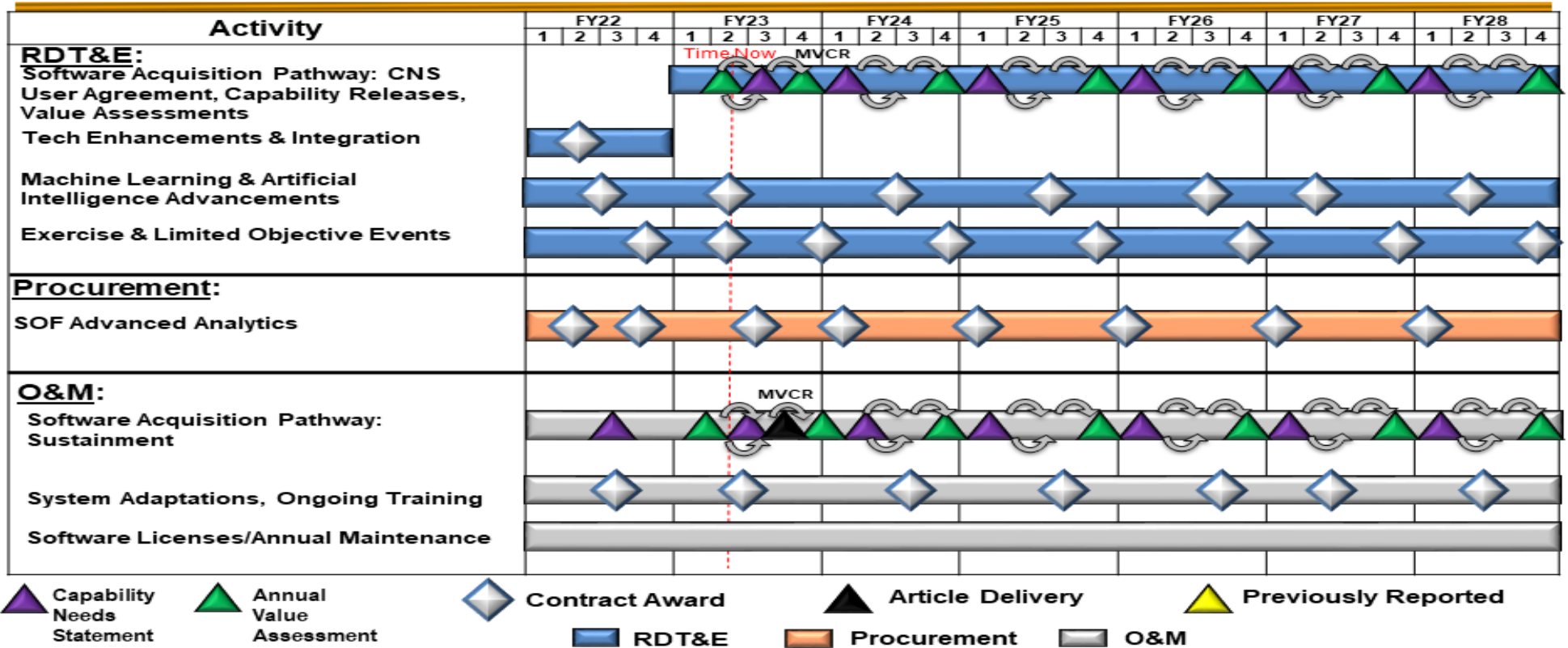
Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ENT/ASIF Developmental Test and Evaluation	MIPR	Various : Various	2.960	0.176	Oct 2021	-		-		-		-	0.000	3.136	-
Developmental Test and Evaluation - Interoperability Support	MIPR	JITC : Ft Huachuca, AZ	2.617	0.261	Feb 2022	0.261	Feb 2023	0.261	Feb 2024	-		0.261	Continuing	Continuing	-

Appropriation/Budget Activity
0400 / 7

R-1 Program Element (Number/Name)
PE 0305208BB / Distributed Common Ground/Surface Systems

Project (Number/Name)
S400A / Distributed Common Ground/Surface Systems

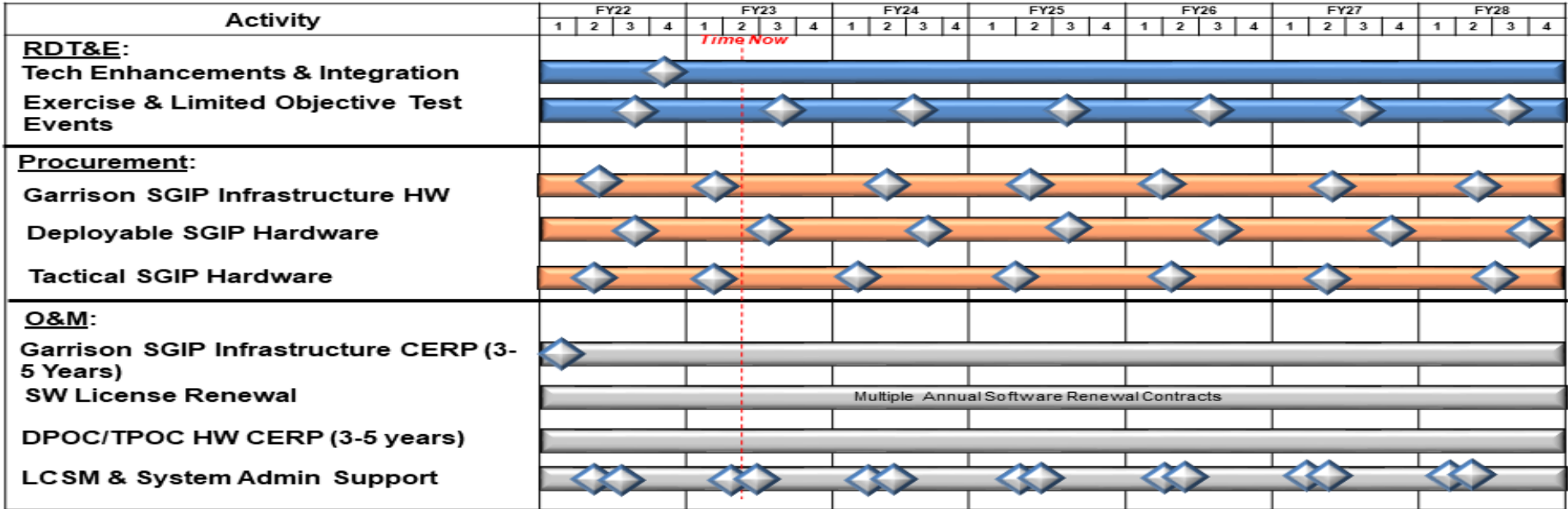
Special Operations Forces Enterprise/All Source Information Fusion (ENT/ASIF) Schedule



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Exhibit R-4, RDT&E Schedule Profile: PB 2024 United States Special Operations Command		Date: March 2023
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Special Operations Forces Geospatial Intelligence Processing, Exploitation and Dissemination (SGIP) Schedule



▲ Milestone
 ▲ Previously Reported
 ◆ Contract Award
 [Blue bar] RDT&E
 [Orange bar] Procurement
 [Grey bar] O&M

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 United States Special Operations Command		Date: March 2023
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Enterprise/All Source Information Fusion (ENT/ASIF)</i>				
Software Acquisition Pathway: Capability Needs Statement (CNS) User Agreement, Capability Releases, Value Assessments	1	2023	4	2028
Technology Enhancements & Integration	1	2022	4	2022
Machine Learning and Artificial Intelligence Advancements	1	2022	4	2028
Exercise & Limited Objective Events	1	2022	4	2028
<i>Special Operations Forces Geospatial Intelligence Processing and Dissemination (SGIP)</i>				
Technology Enhancements & Integration	1	2022	4	2028
Exercise & Limited Objective Test Events	1	2022	4	2028