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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force **Date:** March 2024

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0101318F / <i>Service Support to STRATCOM - Global Strike</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	0.000	7.562	7.330	0.000	7.330	6.951	7.076	7.331	7.477	Continuing	Continuing
675368: <i>Global Data Integration (GDI)</i>	-	0.000	7.562	7.330	0.000	7.330	6.951	7.076	7.331	7.477	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

In FY 2024, PE 1201017SF, Global Sensor Integrated on Network [GSIN], Project 675368, GSIN [Global Integrated Sensor Network] efforts were transferred to PE 0101318F, Service Support to STRATCOM - Global Strike, Project 675368, Global Data Integration [GDI], in order to facilitate proper execution of funding.

A. Mission Description and Budget Item Justification

The mission of USSTRATCOM is to deter strategic attack through a safe, secure, effective, and credible, global combat capability and, when directed, is ready to prevail in conflict. The command enables Joint Force operations and is the combatant command responsible for Strategic Deterrence, Nuclear Operations, Nuclear Command, Control, and Communications (NC3) Enterprise Operations, Joint Electromagnetic Spectrum Operations, Global Strike, Analysis and Targeting, and Missile Threat Assessment.

USSTRATCOM integrates and coordinates the necessary command and control capability to provide support with the most accurate and timely information for the President, the Secretary of Defense, other national leadership and combatant commanders. The Nation's strategic C2 sensors, and mission planning programs cannot rapidly exchange information across multiple missions creating ambiguity that delays time critical national C2 decision making processes. GDI developed and established a unified schema that integrates disparate Missile Warning/Missile Defense (MW/MD), Technical Intelligence (TI) and other data into a single, exposed data set, providing redundant and unambiguous Situational Awareness data to national leadership. GDI also enables existing radars and sensors to provide data in net-centric formats consumable by other authorized systems and mission areas, thus reducing the need to acquire more systems. Activities also include studies and analysis to support current program planning, execution, and future program planning.

GDI directly supports USSTRATCOM and other Combatant Command and MAJCOM mission sets. GDI meshes together selected systems and sensors (from tactical to strategic), including the Nation's most modern and capable assets, taking advantage of their larger numbers, improved algorithms, mobility, and forward deployment to provide earlier cross-cueing and expanded decision space when every second counts. Repurposing these traditionally stove-piped systems and sensors, GDI enables the warfighter in several ways. GDI enables creation of a User Defined Operating Picture (UDOP) to provide a single, unambiguous missile event picture allowing real-time collaboration for nuclear C2 and improved senior leader situational awareness (SA) for effective decision-making. GDI also improves Space Situational Awareness (SSA) by tapping additional sensor capability and provides this data for the larger space order of battle capabilities. GDI dramatically improves the ingestion of non-traditional, but readily available, non-US government and commercial data to the United States Space Force (USSF) satellite catalog. GDI addresses NORTHCOM/STRATCOM's signed Joint Emergent Operational Need (JEON) ST-0010 request for uninterrupted traditional and non-traditional sensor data integration and the Global Threat Characterization Assessment (GTCA) Operational Planning Team report. Finally, GDI provides Data Analysis functions to optimize and operate situational awareness in the field, including units operating in Denied-Disconnected, Intermittent, Limited (D-DIL) and emissions controlled (EMCON) conditions.

UNCLASSIFIED

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Leveraging the appropriate acquisition authorities and contract mechanisms to deliver capability sooner, USSTRATCOM will strategically execute experimentation, prototyping, risk reduction, and other efforts to develop new or repurpose capabilities.

GDI may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability but the civilian pay is expended from program element 0101890F. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	0.000	7.562	7.317	0.000	7.317
Current President's Budget	0.000	7.562	7.330	0.000	7.330
Total Adjustments	0.000	0.000	0.013	0.000	0.013
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	0.013	0.000	0.013

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
Title: Radar, Sensor, Technical Intelligence [TI], and Allied Systems	-	0.500	0.500
Description: Designs, develops, exposes and integrates data from RADAR, sensors and technical intelligence systems in regions of the world where users may have limited and/or denied coverage. Provide real time data from systems that previously reported in hours or days after critical events. Conduct studies/surveys/meetings as necessary to continually identify systems meeting GDI user data exposure needs and develop implementation plans to mature data exposure capabilities.			
FY 2024 Plans:			
- Continue integration of foreign RADAR and other sensor systems to improve coverage in data sparse/denied regions			
- Rapidly implement system resiliency and situational awareness changes required to operate in the contested space domain			
FY 2025 Plans:			

UNCLASSIFIED

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2023	FY 2024	FY 2025
- Continued net-centric exposure and integration of numerous Foreign sensor systems, with particular focus on INDOPACOM and EUCOM AORs.				
<p>Title: Global Data Integration [GDI] Development</p> <p>Description: Effort title changed from "Global Data Integration (GDI)" to "Global Data Integration [GDI] Development" to differentiate major thrust from new project title. This is not a new start. Develop common Extensible Markup Language [XML] net-enabled data schemas and configuration management processes and procedures for Missile Warning, Missile Defense, Space, MASINT/Technical Intelligence, and Sensor data to manage the XML schema and associated XML messaging and services. Develop technical outreach for potential new GDI data consumers and providers who require GDI sensor data. Continue modifications to data services. Support integration of GDI sensor data into appropriate registries/catalogs. Continue development of GDI data services to enable visualization in a common operating picture. Continue to expand and mature GDI's support to users operating in D-DIL/EMCON environments.</p> <p>FY 2024 Plans:</p> <p>-DATABAHN: Continue to develop and field a dedicated CDS, including geographically separated, redundant nodes, providing greater operational resiliency. Conduct tech refresh of existing hardware resources on UNCLAS, SECRET and TS/SCI domains. Provide capability to include new data consumers and providers who require GDI sensor data. Support integration of GDI sensor data into appropriate registries and catalogs. Continue development of GDI data services to enable visualization in a common operating picture.</p> <p>-Fusion Engine for All-Source Tracking (FEAST): Integrate additional Top Secret/Special Compartmentalized Information (TS/SCI) data sources and algorithms. Identify transition partner for sustainment of FEAST capability, post-FY 2024.</p> <p>-Analytic Collaboration Environment-Multi INT (ACE-M): Develop and integrate Data-as-a-Service and Analytics-as-a-Service capabilities, such as fused multi-domain geospatial information, Battle Management Aids, and Object-Based Analytics, into new and existing architectures for GDI users. Expand implementation of D-DIL/EMCON environment support. Integration of Data and Analytics in support of NC3 next-gen situational awareness and other NC3 enterprise needs.</p> <p>-Data Integrity (DI): Test and evaluate all GDI segments in support of data governance, provenance and discovery. Additionally, FY 2024 funding will allow the program to implement system resiliency and situational awareness necessary to operate in contested domains. Activities may include, but are not limited to: Studies, technical analysis, risk reduction experiments and prototyping, integration and test of command and control (C2), resiliency measures and mission partner interfaces, test/combat range events, and office support etc.</p> <p>FY 2025 Plans:</p>		-	7.062	6.830

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<ul style="list-style-type: none"> - Continued development, accreditation, and fielding of a redundant dedicated CDS - Integration of Data and Analytics in support of NC3 next-gen - Continued expansion of D-DIL/EMCON environment support - Continued test and evaluation all GDI segments in support of data governance, provenance and discovery <p><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Decrease is due to a 60/40% ratio when redistributing funds into FY 2024 (60%) and FY 2025 (40%) to account for the availability of prior year execution balances</p>			
Accomplishments/Planned Programs Subtotals	-	7.562	7.330

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

N/A

Remarks

E. Acquisition Strategy

GDI uses existing government contract vehicles whenever available to develop and modernize the combined SDA/MW/MD/MASINT/TI data exposure architecture and solution. When appropriate contracts do not exist or not available to GDI, USSTRATCOM awards new contracts in support of responsive and consistent GDI goals.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force **Date:** March 2024

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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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			
GDI DATABAHN	Various	Altamira : Various	-	-		1.340	Aug 2024	1.380	Aug 2025	-		1.380	Continuing	Continuing	12.520
GDI FEAST	Various	SciTec : Various	-	-		0.400	Aug 2024	0.115	Aug 2025	-		0.115	Continuing	Continuing	11.100
GDI ACE-M	Various	Various : Offutt AFB, NE	-	-		3.055	Jul 2024	3.150	Jul 2025	-		3.150	Continuing	Continuing	49.680
GD DI	Various	MIT/LL : Various	-	-		2.120	Mar 2024	2.065	Mar 2025	-		2.065	Continuing	Continuing	4.750
Radar, Sensor, Technical Intelligence [TI], and Allied Systems	Various	Various : Various	-	-		0.647	Feb 2024	0.620	Feb 2025	-		0.620	Continuing	Continuing	-
Subtotal			-	-		7.562		7.330		-		7.330	Continuing	Continuing	N/A
Project Cost Totals			-	-		7.562		7.330		-		7.330	Continuing	Continuing	N/A

Remarks
 RADAR, Sensor, Technical Intelligence (TI), and Allied Systems work will focus on net-centric exposure and integration of numerous Foreign sensor systems, with particular focus on INDOPACOM and EUCOM AORs. Timelines and sensor prioritization are notional, based on emerging Warfighter priorities.

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>DATABAHN</i>				
Field and accredit redundant dedicated CDS	4	2024	3	2026
Tech Refresh of U/S/TS SCI domains	1	2024	3	2024
Tech Refresh of U/S/TS SCI domains (1)	1	2029	3	2029
New Sensor Integration (ongoing)	1	2023	4	2029
<i>FEAST</i>				
Integration of additional TS/SCI data sources and algorithms	1	2023	2	2024
Identify transition partner for sustainment	4	2023	4	2024
<i>ACE-M</i>				
Develop and integrate Data-as-a-Service and Analytics-as-a-Service capabilities	4	2023	4	2024
Expand implementation of D-DIL/EMCON environment support	4	2024	3	2025
Integration of Data and Analytics in support of NC3 next-gen	4	2024	2	2027
<i>DI</i>				
R&D Proof of Concept	1	2023	4	2029
<i>Radar, Sensor, Technical Intelligence [TI] and Allied Systems</i>				
Iterative multi-sensor exposure Design/Development/Production/Fielding	1	2023	4	2029