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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Air Force **Date:** April 2022

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 0208099F / <i>Unified Platform (UP)</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	91.886	91.893	107.548	0.000	107.548	0.000	0.000	0.000	0.000	Continuing	Continuing
672281: <i>Foundational Efforts</i>	-	91.886	91.893	107.548	0.000	107.548	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Unified Platform provides the Cyber Mission Forces, U.S. Cyber Command (USCYBERCOM), AF Major Commands, and Service cyber components a Joint cyber operations infrastructure enabling full spectrum cyberspace operations at the operational through tactical levels of warfare as part of USCYBERCOM (JCWA) Joint Cyber Warfare Architecture. The DoD, AF, and the Cyber Mission Force require an interconnected and interoperable cyber infrastructure to conduct integrated planning and execution of cyberspace operations to meet Combatant Commander requirements. Unified Platform delivers this capability through the integration of disparate firing platforms, existing or evolving systems, infrastructure, mission capabilities, data analytics, and programs used for military cyber operations to build interoperable and scalable network for cyber capabilities. A common, Unified Platform allows the DoD to achieve and maintain decision and operational superiority, the key to successful cyber operations within the highly dynamic cyberspace domain.

Foundational Efforts provide for the research, development, prototype maturation, integration, enhancement, delivery, and enduring product support of the Unified Platform capability to ensure responsiveness to warfighter requirements within operationally relevant timeframes. With the government as the lead integrator, Unified Platform Foundational Efforts provide a flexible—yet disciplined—agile development/security/operations (DevSecOps) capability to generate new capabilities, integrate existing and emerging technologies, incorporate rapid prototyping efforts, and evolve the Unified Platform baseline on an agile basis. Foundational efforts include both the management of the DevSecOps capabilities including systems engineering, risk management, contracting, test, and program management as well as the active research and capability development to be conducted for the Unified Platform baseline.

The Secretary of the Air Force leads the Unified Platform effort as Executive Agent on behalf of the Department of Defense. Unified Platform directly supports the Joint Network Attack Initial Capabilities Document (ICD), the National Military Strategy for Cyberspace Operations (NMS-CO), USCYBERCOM operational directives, the latest MAJCOM Offensive Cyberspace Operations System Flight Plan, and other formal requirements documents.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. 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. In FY21, \$2.842M was expended for civilian pay expenses in this program element, and in FY22, \$8.077M is forecasted for civilian pay expenses in this program element.

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.

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B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	84.491	101.893	0.000	0.000	0.000
Current President's Budget	91.886	91.893	107.548	0.000	107.548
Total Adjustments	7.395	-10.000	107.548	0.000	107.548
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	-10.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	9.900	0.000			
• SBIR/STTR Transfer	-2.505	0.000			
• Other Adjustments	0.000	0.000	107.548	0.000	107.548

Change Summary Explanation

The FY 2022 funding reduced by \$10.000M due to Congressional directed reduction for unjustified growth.

The FY 2022 President's Budget submittal did not reflect FY 2023 through FY 2026 funding. Therefore, an explanation of the change between the two budget positions for FY2023 cannot be made in a relevant manner.

In FY 2021, PE 0208099F (Unified Platform) received \$9.900M as a Below Threshold Reprogramming (BTR) to develop an integrated delivery system that provides a collaborative development environment capable of delivering full stack automation tools, services, and a standards as-a-service.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>Title: Foundational Efforts</p> <p>Description: Foundational Efforts ensure the perpetual capability development, integration, and delivery of the Unified Platform capability through the rapid and agile development of requirements via a DevSecOps pipeline. Unified Platform requirements are warfighter-derived under the framework of validated Unified Platform requirement documents and met using agile development teams, integration of Service and U.S. Cyber Command capabilities, or external prototyping activities.</p> <p>Unified Platform capabilities are developed within the government-lead Unified Platform Continuous Integration/Continuous Deployment DevSecOps pipeline, leveraging a common pipeline baseline maintained by Platform One. This pipeline provides a common system development, integration, and staging environment to permit collaborative development. Developmental efforts will be continuously verified for security compliance and continually tested to ensure development meets established security and performance criteria.</p>	91.886	91.893	107.548

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
Foundational Efforts also include program office expertise at multiple operating locations in the areas of cyberspace, systems engineering, risk management framework, scaled agile framework, contracting, and program management to ensure that agile acquisition development planning and frequent customer engagement is accomplished.			
<i>FY 2022 Plans:</i> - Deliver distributed query and data analytics across joint service, multi-classification level Big Data Platforms (BDP) supporting defensive and offensive Cyber Mission Force (CMF) operations - Increase data types/sources available to CMF and provide data foundation for all JCWA components - Improve enterprise services across BDP enterprise to better support cyberspace operators - Provide automated tools for improved Offensive/Defensive Cyber actions - Build operational infrastructure required for future AI/ML workloads - Leverage agile model to scale/deliver operational capabilities as determined by governance process - Develop new capabilities, modernize infrastructure, and prototype activities for Cyber Mission Force (CMF) - Provide DevSecOps platform for continuous integration/continuous delivery (CI/CD) of UP and other JCWA programs			
<i>FY 2023 Plans:</i> - Will integrate forward deployed operations with enterprise data and analytics - Will enable threat data collaboration with federal and commercial entities - Will extend integration and interoperability with multinational partners - Will develop and connect AI/ML models with cyber data sets - Will continue to Leverage agile model to scale/deliver operational capabilities as determined by governance process - Will continue to develop new capabilities, modernize infrastructure, and prototype activities for Cyber Mission Force (CMF) - Will continue to provide DevSecOps platform for CI/CD of UP and other JCWA programs			
<i>FY 2022 to FY 2023 Increase/Decrease Statement:</i> Funding increased to modernize data architecture and tools enabling AI/ML, develop data fabric for multi-echelon cyber operations, develop analytics to protect against foreign malicious cyber actors, and develop services required to rapidly ingest CMF data.			
Accomplishments/Planned Programs Subtotals	91.886	91.893	107.548

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2023</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>OCO</u>	<u>Total</u>	<u>OCO</u>	<u>Total</u>	<u>OCO</u>	<u>Total</u>	<u>OCO</u>	<u>Total</u>
• RDTE 04 0208099F: <i>Unified Platform (UP)</i>	5.979	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	5.979

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

Line Item	FY 2021	FY 2022	FY 2023	FY 2023	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Cost To	
			Base	OCO	Total					Complete	Total Cost
• OPAF 03 835080: <i>AFNET</i>	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
• OPAF 03 834320: <i>C3 Countermeasures</i>	3.156	4.904	5.013	-	5.013	0.000	0.000	0.000	0.000	Continuing	Continuing

Remarks

Beginning in FY21 associated OPAF realigned from Line Item 835080 (AFNET) to Line Item 834320 (C3 Countermeasures) for clarity in reporting.

BA4 Prototyping effort ended in FY21.

E. Acquisition Strategy

Unified Platform represents a flexible, interoperable, and scalable warfighter capability to be employed by the Army, Navy, Marine Corps, and Air Force in conjunction with U.S. Cyber Command (USCYBERCOM). In order to match the speed of need of the highly dynamic cyberspace domain, the Service-agnostic Unified Platform implements an agile development framework to facilitate the rapid development, integration, and fielding of capabilities to remain responsive to evolving warfighter requirements. The Unified Platform program develops capability in response to requirements provided by the Army, Navy, Marine Corps, Air Force, and USCYBERCOM stakeholders in accordance with the prioritization provided by the multi-Service Unified Platform governance structure.

The initial Unified Platform capability delivered a minimum viable product (MVP) for immediate deployment and operational use by the Cyber Mission Force. Subsequent build iterations continue to deliver enhanced capabilities, incrementally building the Unified Platform capability to match warfighter needs and requirements to achieve cyberspace dominance. Development of the Unified Platform baseline capability relies agile software sprints to analyze integration constraints and opportunities of Service-specific cyber capabilities to realize the Unified Platform MVP and inform the future Unified Platform baseline an enduring foundational Unified Platform thrust area supports the development and maturation of Unified Platform baseline, integrates successful prototyping activities, and implements an agile development/security/operations (DevSecOps) construct to rapidly evolve and enhance the Unified Platform capability to match warfighter requirements.

The Unified Platform program office utilizes Concept, Development, Risk management, Production, and Deployment Plans as part of a streamlined approach to agile acquisition planning. All plans contain sufficient information to inform acquisition decisions (i.e., authorities to proceed), within the agile framework, to determine readiness to enter into the applicable phase of the acquisition process. Unified Platform will utilize both new and existing contractual vehicles, such as Government-Wide Acquisition Contract (GWAC) vehicles (Alliant, Encore II, Solutions for Enterprise-Wide Procurement IV (SEWP IV), and General Services Administration (GSA) Federal Supply Schedules, a Cyber Indefinite Delivery Indefinite Quantity (IDIQ) contract, Other Transaction Authority (OTA), DoD Enterprise Software Initiative (ESI), Commercial Solution Openings (CSO), Partnership Intermediary Agreements (PIA), Small Business Innovative Research (SBIR) contracts, and Small Disadvantaged Business 8(a) contracts. The use of multiple-award contractual vehicles will provide a wide range of commercially-available products and services that will meet any future requirements related to Unified Platform.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force **Date:** April 2022

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208099F / <i>Unified Platform (UP)</i>	Project (Number/Name) 672281 / <i>Foundational Efforts</i>
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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
UP System Technical Coordination	C/T&M	Northrop Grumman : San Antonio, TX	-	12.426	Oct 2020	-		-		-		-	Continuing	Continuing	29.647
UP System Technical Coordination Follow On	C/TBD	TBD : San Antonio, TX	-	-		5.000	Oct 2021	5.426	Oct 2022	-		5.426	Continuing	Continuing	-
Cloud Compute and Store	Various	TBD : San Antonio, TX	-	13.127	Oct 2020	5.714	Oct 2021	14.554	Oct 2022	-		14.554	Continuing	Continuing	-
Agile Capability Development	Various	Multiple: Various : TBD	-	27.875	Oct 2020	43.129	Oct 2021	47.129	Oct 2022	-		47.129	Continuing	Continuing	169.123
Distributed Common Computing Environment	Various	Multiple: Various : TBD	-	9.744	Feb 2021	12.258	Feb 2022	12.325	Feb 2023	-		12.325	Continuing	Continuing	30.402
Subtotal			-	63.172		66.101		79.434		-		79.434	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Direct Cite Authority Civilian Pay	TBD	Not specified. : TBD	-	2.842	Oct 2020	8.077	Oct 2021	8.150	Oct 2022	-		8.150	Continuing	Continuing	-
Platform One Core Capabilities	Various	Multiple Various : TBD	-	9.900		-		-		-		-	Continuing	Continuing	-
Subtotal			-	12.742		8.077		8.150		-		8.150	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Test and Evaluation	Various	Multiple: Various : TBD	-	1.563	Jan 2021	1.600	Jan 2022	1.700	Jan 2023	-		1.700	Continuing	Continuing	6.593
Subtotal			-	1.563		1.600		1.700		-		1.700	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Air Force **Date:** April 2022

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FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<i>Foundational Efforts</i>	
UP System Technical Coordination	
UP Agile Capability Development	
Distributed Common Computing Environment	

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force **Date:** April 2022

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Foundational Efforts</i>				
UP System Technical Coordination	1	2021	4	2023
UP Agile Capability Development	1	2021	4	2023
Distributed Common Computing Environment	1	2021	4	2023

Note
In response to Section 1507 of the FY22 NDAA, the FY24+ funds for PE 28099F will be transferred to USCYBERCOM to be responsible for the planning, programming, budgeting, and execution of the resources.