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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Air Force **Date:** May 2021

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 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	-	90.002	84.491	101.893	0.000	101.893	-	-	-	-	-	-
672281: <i>Foundational Efforts</i>	-	90.002	84.491	101.893	0.000	101.893	-	-	-	-	-	-
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 0605831F. In FY20 1.382M was expended for civilian pay expenses in this program element, and in FY21 2.102M 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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	84.702	84.645	106.550	0.000	106.550
Current President's Budget	90.002	84.491	101.893	0.000	101.893
Total Adjustments	5.300	-0.154	-4.657	0.000	-4.657
• Congressional General Reductions	0.000	-0.154			
• 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	8.400	0.000			
• SBIR/STTR Transfer	-3.100	0.000			
• Other Adjustments	0.000	0.000	-4.657	0.000	-4.657

Change Summary Explanation

In FY20, Platform One core capabilities funded by the USAF via \$8.4M Below Threshold Reprogramming (BTR) into PE 020899F (Unified Platform). This "payback" BTR is a temporary measure as the Air Force works to establish a separate funding line.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
<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> <p>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.</p>	90.002	84.491	101.893

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
<p>FY 20 Accomplishments: Provided USCYBERCOM, Army, Air Force, and Marine Corps operators with a single sign-on that enabled them to share and query data, analytics, and analysis across multiple classifications and across multiple Service.</p> <p>In support of USCYBERCOM's Election 2020 Mission, UP executed distributed query between National Guard systems and USCYBERCOM BDP to allow for data analysis and established a Malware Information Sharing Platform to support ingestion of technical indicators of compromise.</p> <p>Implemented operational Single Access Request Initiative (SARI) capability for Marine CHAOS and designing new data flow for AF ELICSAR. The operational capability will allow for new users accessing the Marine CHAOS BDP to automatically populate a DD2875 via information coming from their CAC, Active Directory, Training Databases (e.g. ETMS), and Security Databases (e.g.DMDC IWS, JPAS, Scattered Castles).</p> <p>Integrated delivery pipeline through Platform One, providing updates and patches more efficiently to end users.</p> <p>Provided Platform One core capabilities including Personnel, rent, equipment, and travel, funded by Air Force FY20 BTR.</p> <p>FY 2021 Plans:</p> <ul style="list-style-type: none"> • Continue to scale and deliver capability through an agile development model, delivering operational capability on-demand. • Continue to integrate existing Service capabilities, developed new capabilities, and modernized existing infrastructure while also leveraging prototyping activities from the Services and U.S. Cyber Command. • Continue to maintain Distribute Common Development/Integration and Staging environments allowing for continuous integration and continuous delivery of capability. <p>FY 2022 Plans:</p> <ul style="list-style-type: none"> • Will continue to scale and deliver capability through an agile development model, delivering operational capability on-demand. • Will continue to integrate existing Service capabilities, develop new capabilities, and modernize existing infrastructure while also leveraging prototyping activities from the Services and U.S. Cyber Command. • Will maintain Distributed Common Development/Integration and Staging environments allowing for continuous integration and continuous delivery of capability. <p>FY 2021 to FY 2022 Increase/Decrease Statement:</p>			

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
Funding increase due to program transition from rapid prototyping into the Execution Phase of the Software Acquisitions Pathway. Budget Authority 04 Funding was realigned into Budget Authority 07 in FY 2022.			
Accomplishments/Planned Programs Subtotals	90.002	84.491	101.893

D. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• RDTE 04 0208099F: <i>Unified Platform (UP)</i>	9.623	5.979	0.000	-	0.000	-	-	-	-	-	-
• OPAF 03 835080: <i>AFNET</i>	4.963	0.000	0.000	-	0.000	-	-	-	-	-	-
• OPAF 03 834320: <i>C3 Countermeasures</i>	0.000	4.956	4.904	-	4.904	-	-	-	-	-	-

Remarks
Beginning in FY21 associated OPAF realigned from AFNET WSC to C3 Countermeasures WSC for clarity in reporting.

BA4 Prototyping effort ends 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

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<p>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.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Air Force **Date:** May 2021

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 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			
UP System Technical Coordination	C/T&M	Northrop Grumman : San Antonio, TX	-	16.697	Oct 2019	12.950	Oct 2020	-		-		-	-	-	29.647
Agile Capability Development	Various	Multiple: Various : TBD	-	39.655	Oct 2019	41.643	Oct 2020	63.843	Oct 2021	-		63.843	-	-	169.123
Distributed Common Computing Environment	Various	Multiple: Various : TBD	-	8.400	Feb 2020	9.744	Feb 2021	12.258	Feb 2022	-		12.258	-	-	30.402
Subtotal			-	64.752		64.337		76.101		-		76.101	-	-	N/A

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			
Direct Cite Authority Civilian Pay	TBD	Not specified. : TBD	-	2.102	Oct 2019	5.942	Oct 2020	8.077	Oct 2021	-		8.077	-	-	-
Platform One Core Capabilities	Various	Multiple Various : TBD	-	8.400	Oct 2019	-		-		-		-	-	-	-
Subtotal			-	10.502		5.942		8.077		-		8.077	-	-	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			
Test and Evaluation	Various	Multiple: Various : TBD	-	3.593	Jan 2020	1.400	Jan 2021	1.600	Jan 2022	-		1.600	-	-	6.593
Subtotal			-	3.593		1.400		1.600		-		1.600	-	-	N/A

Management Services (\$ 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			
Systems Engineering	Various	Various : TBD	-	7.955	Dec 2019	9.100	Dec 2020	11.449	Dec 2021	-		11.449	-	-	28.504
Acquisition Support	Various	Various : TBD	-	2.168	Dec 2019	2.515	Dec 2020	3.163	Dec 2021	-		3.163	-	-	7.846

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Air Force **Date:** May 2021

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FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
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 2022 Air Force **Date:** May 2021

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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	2020	4	2022
UP Agile Capability Development	1	2020	4	2022
Distributed Common Computing Environment	1	2020	4	2022