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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force										Date: February 2019		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0208099F I Unified Platform (UP)							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	0.000	26.559	84.702	0.000	84.702	98.701	114.713	114.721	125.436	Continuing	Continuing
672281: Foundational Efforts	-	0.000	26.559	84.702	0.000	84.702	98.701	114.713	114.721	125.436	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. 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. Foundational efforts are informed in part by Unified Platform prototyping efforts (BA 4, PE 0208099F Unified Platform, BPACs 646504 AF Prototyping and 646505 USCYBERCOM Prototyping).

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 Unified Platform weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605898F, and 0605833F.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

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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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total		
Previous President's Budget		0.000	28.759	29.702	0.000	29.702		
Current President's Budget		0.000	26.559	84.702	0.000	84.702		
Total Adjustments		0.000	-2.200	55.000	0.000	55.000		
• Congressional General Reductions		0.000	-2.200					
• 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	55.000	0.000	55.000		
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: Foundational Efforts				0.000	26.559	84.702	0.000	84.702
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.								
Unified Platform requirements are developed within the government-lead Unified Platform Continuous Integration/Continuous Deployment DevSecOps pipeline. 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.								
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								

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
program management to ensure that agile acquisition development planning and frequent customer engagement is accomplished.						
FY 2019 Plans: - Deliver capability through an agile development model consisting of epics and incremental/limited deployments supporting a cadence based development process and on-demand delivery schedule. - Develop and deliver capability by leveraging/integrating prototyping activities from the Services and U.S. Cyber Command. - Establish Distributed Common Development/Integration and Staging environments allowing for collaborative capability development. - Some aspects of the effort are classified and will be provided on a need-to-know basis.						
FY 2020 Base Plans: - Will continue to deliver capability through an agile development model consisting of epics and incremental/limited supporting a cadence based development process and on-demand delivery schedule. - Will continue to develop and deliver capability by leveraging prototyping activities from the Services and U.S. Cyber Command. - Will maintain Distributed Common Development/Integration and Staging environments allowing for collaborative capability development. - Some aspects of the effort are classified and will be provided on a need-to-know basis.						
FY 2020 OCO Plans: N/A						
FY 2019 to FY 2020 Increase/Decrease Statement: Funding increased due to additional warfighter capability requirements required of the Unified Platform baseline.						
Accomplishments/Planned Programs Subtotals		0.000	26.559	84.702	0.000	84.702

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D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
• RDTE 04 0208099F: Unified Platform (UP)	0.000	29.800	10.000	-	10.000	6.000	0.000	0.000	0.000	0.000	45.800
• OPAF 03 835080: AFNET	-	-	4.963	-	4.963	4.964	4.962	4.961	5.050	Continuing	Continuing
Remarks											
E. Acquisition Strategy											
<p>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 capability implements a scaled agile development framework (SAFe) to facilitate the rapid development, integration, and fielding of capabilities to remain responsive to evolving warfighter requirements. The Unified Platform program executes the agile development 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.</p> <p>The initial Unified Platform capability will deliver a minimum viable product (MVP) for immediate deployment and operational use by the Cyber Mission Force. Subsequent build iterations will continue to deliver enhanced capabilities, incrementally building the Unified Platform capability to match warfighter needs and requirements to achieve cyberspace dominance. Early development of the Unified Platform baseline capability relies on extensive rapid prototyping efforts to analyze integration constraints and opportunities of Service-specific cyber capabilities to realize the Unified Platform MVP and inform the future Unified Platform baseline (BA 4, PE 0208099F Unified Platform, 646504 AF Prototyping and 646505 USCYBEROM Prototyping). In parallel, 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 (BA 7, PE 0208099F Unified Platform, 672281 Foundational Efforts).</p> <p>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 and a new Cyber Indefinite Delivery Indefinite Quantity (IDIQ) contract. The use of multiple-award contractual vehicles will provide a wide range of commercially-available products and services that should be able to can meet many requirements related to Unified Platform. These multiple-award contractual vehicles have already met the statutory requirements of the Competition in Contracting Act (CICA); they require a fair opportunity to all contract holders, in accordance with Federal Acquisition Regulation (FAR) 16.505, unless an exception to fair opportunity applies.</p>											

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F. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force												Date: February 2019			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0208099F / Unified Platform (UP)				Project (Number/Name) 672281 / Foundational Efforts					
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
UP System Technical Coordination	C/T&M	Northrup Grumman : TBD	-	-		7.359	Oct 2018	18.264	Oct 2019	-		18.264	Continuing	Continuing	18.264
Agile Capability Development	TBD	TBD : TBD	-	-		-		44.838	Oct 2019	-		44.838	Continuing	Continuing	44.838
Distributed Common Development/Integration Environment	TBD	TBD : TBD	-	-		1.400	Feb 2019	1.400	Feb 2020	-		1.400	Continuing	Continuing	1.400
Distributed Common Staging Environment	TBD	TBD : TBD	-	-		2.800	Feb 2019	2.800	Feb 2020	-		2.800	Continuing	Continuing	2.800
Subtotal			-	-		11.559		67.302		-		67.302	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
Test and Evaluation	TBD	TBD : TBD	-	-		1.000	Jan 2019	2.100	Jan 2020	-		2.100	Continuing	Continuing	2.100
Subtotal			-	-		1.000		2.100		-		2.100	Continuing	Continuing	N/A
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
Systems Engineering	Various	Various : Various	-	-		10.100	Dec 2018	11.100	Dec 2019	-		11.100	Continuing	Continuing	11.100
Acquisition Support	Various	Various : Various	-	-		3.000	Dec 2018	3.300	Dec 2019	-		3.300	Continuing	Continuing	3.300
Program Mgmt Office Overhead Costs	Various	Various : Various	-	-		0.900	Dec 2018	0.900	Dec 2019	-		0.900	Continuing	Continuing	0.900
Subtotal			-	-		14.000		15.300		-		15.300	Continuing	Continuing	N/A
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		26.559		84.702		-		84.702	Continuing	Continuing	N/A

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	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Remarks									

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Air Force															Date: February 2019				
Appropriation/Budget Activity										R-1 Program Element (Number/Name)					Project (Number/Name)				
3600 / 7										PE 0208099F / Unified Platform (UP)					672281 / Foundational Efforts				

	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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
Foundational Efforts																												
UP System Technical Coordination																												
UP Agile Capability Development																												
Distributed Common Development/Integration Environment																												
Distributed Common Staging Environment																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force		Date: February 2019
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0208099F / Unified Platform (UP)	Project (Number/Name) 672281 / Foundational Efforts

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Foundational Efforts				
UP System Technical Coordination	1	2019	4	2024
UP Agile Capability Development	1	2020	4	2024
Distributed Common Development/Integration Environment	2	2019	4	2024
Distributed Common Staging Environment	2	2019	4	2024