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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 0305881F / <i>Rapid Cyber Acquisition</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	-	4.223	4.254	4.326	0.000	4.326	-	-	-	-	-	-
670374: <i>Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</i>	-	4.223	4.254	4.326	0.000	4.326	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Rapid Cyber Acquisition (RCA) initiative provides new cyber capabilities in response to a continuously evolving threat environment. The delivery of capabilities to Combatant and Joint Force Commanders, in mission relevant timeframes (0-60 days), enhances the nation's ability to operate within the highly-dynamic cyberspace domain.

The RCA initiative expedites cyber development and modifications of USAF cyber capabilities through the integration with and technical support to other Service and Government Agency activities to leverage select Air Force-developed technologies and/or operational capabilities. RCA develops material or non-material cyber solutions and the tools and environment necessary to conduct rapid prototyping, integration, and transition activities of cyber capabilities. Activities include but are not limited to development of software/hardware systems, integration and transition of lab-developed cyber capabilities, developmental testing, operational evaluation, manpower, studies, analysis, pilots, demonstrations, and risk reduction efforts for emerging technologies.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Rapid Cyber Acquisition capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605831F. In FY20 \$0.000M was expended for civilian pay expenses in this program element, and in FY21 \$0.000M 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

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	4.383	4.262	4.545	0.000	4.545
Current President's Budget	4.223	4.254	4.326	0.000	4.326
Total Adjustments	-0.160	-0.008	-0.219	0.000	-0.219
• Congressional General Reductions	0.000	-0.008			
• 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	-0.160	0.000			
• Other Adjustments	0.000	0.000	-0.219	0.000	-0.219
C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: Rapid Cyber Acquisition (RCA)	4.223	4.254	4.326	0.000	4.326
Description: Provides dynamic research and development activities to leverage funding from cyber operations requirements owners to conduct quick look assessments, solution design, rapid prototyping, testing, and quick reaction fielding of cyber capabilities.					
FY 2021 Plans:					
- Continue to provide professional and technical subject matter expertise to deliver direction and guidance for offensive cyber operations and computer network exploitation information systems to support the Air Force's cyber mission objectives					
- Continue to maintain multidisciplinary targeting, conduct target systems analysis, and execute developmental planning in support of the USAF cyber mission					
- Continue to design cyber solutions to meet specific combatant command, AF major command, and other agency requirements					
- Continue to utilize a highly skilled rapid reaction team to prototype and deliver cyber capability and perform quick look operational and technical assessments					
- Continue provide an enhanced secure lab capability to support research, prototyping, development, and testing of cyber warfare capabilities					
FY 2022 Base Plans:					

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<ul style="list-style-type: none"> - Will maintain multidisciplinary targeting, conduct target systems analysis, and execute developmental planning in support of the USAF cyber mission - Will design cyber solutions to meet specific combatant command, AF major command, and other agency requirements - Will utilize a highly skilled rapid reaction team to prototype and deliver cyber capability and perform quick look operational and technical assessments - Will provide an enhanced secure lab capability to support research, prototyping, development, and testing of cyber warfare capabilities <p>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: N/A</p>					
Accomplishments/Planned Programs Subtotals	4.223	4.254	4.326	0.000	4.326

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

Remarks

E. Acquisition Strategy
The Rapid Cyber Acquisition (RCA) initiative utilizes a tailorable acquisition strategy that facilitates rapid delivery of material and nonmaterial solutions to solve operational cyber requirements. This approach allows flexibility for solutions to enter the acquisitions process at any phase of the acquisition life cycle. RCA provides the rapid development environment and secure DevOps capacity to meet urgent operational needs/requirements.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Air Force												Date: May 2021				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
3600 / 7				PE 0305881F / Rapid Cyber Acquisition				670374 / Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt								
Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	
Rapid Cyber Acquisition Development	Various	Various : Various	-	-		-		4.226	Nov 2021	-		4.226	-	-	0.000	
Subtotal			-	-		-		4.226		-		4.226	-	-	N/A	
Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	
Cyber Capabilities Support Office (CCSO) Interagency Personnel Agreement (IPA)	SS/FFP	MIT Lincoln Laboratory : Lexington, MA	-	0.389	Dec 2019	0.301	Nov 2020	-		-		-	-	-	0.389	
Due Diligence Research & Analysis	SS/CPFF	Novetta solutions : Mclean, VA	-	0.157	Mar 2020	-		-		-		-	-	-	-	
Cyber Capability Design	C/FFP	X8 Solutions, Inc : Oak Hill, VA	-	1.750	Nov 2019	1.331	Mar 2021	-		-		-	-	-	1.750	
Internal Development	SS/CPFF	JHU Applied Physics Lab : Baltimore, MD	-	1.568	Apr 2020	1.522	Feb 2021	-		-		-	-	-	1.728	
Subtotal			-	3.864		3.154		-		-		-	-	-	N/A	
Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	
Joint Information Range Development Environment (CCSO Lab Environment)	SS/CPFF	Novetta Solutions : Mclean, VA	-	0.359	May 2020	1.100	May 2021	-		-		-	-	-	0.359	
Rapid Cyber Acquisition	MIPR	47 CTS : San Antonio, TX	-	-		-		0.100	Oct 2021	-		0.100	-	-	-	
Subtotal			-	0.359		1.100		0.100		-		0.100	-	-	N/A	

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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
Cyber Capability Support Office (CCSO)																												
CCSO Technical Direction																												
Due Diligence Research and Analysis																												
Cyber Capability Design																												
Internal Development																												
JIOR Development Environment (CCSO Lab Environment)																												
Rapid Cyber Acquisition																												
RCA Activities																												

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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
Cyber Capability Support Office (CCSO)				
CCSO Technical Direction	1	2020	4	2021
Due Diligence Research and Analysis	1	2020	4	2021
Cyber Capability Design	1	2020	4	2021
Internal Development	1	2020	4	2021
JIOR Development Environment (CCSO Lab Environment)	1	2020	4	2021
Rapid Cyber Acquisition				
RCA Activities	1	2022	4	2022