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

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0305881F / <i>Rapid Cyber Acquisition</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	-	4.098	4.326	3.739	0.000	3.739	9.472	9.648	9.852	10.071	Continuing	Continuing
670374: <i>Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</i>	-	4.098	4.326	3.739	0.000	3.739	9.472	9.648	9.852	10.071	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The Rapid Cyber Acquisition (RCA) initiative is a materiel (hardware, software, and tool development) and non-materiel (technical support) effort to enable delivery of new cyber capabilities at the pace of warfighting relevance. Combatant and Joint Force Commanders require up-to-date, tailored cyber capabilities to meet the continuously evolving threat in 0-60 day timeframes to provide the nation's ability to win in 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 emergent or unanticipated civilian pay expenses required to manage, execute, and deliver Rapid Cyber Acquisition capability for emergent or unanticipated 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, and 0606398F. In FY21 \$0.000M was expended for civilian pay expenses in this program element, and in FY22 \$ 0.000M is forecasted for civilian pay expenses in this program element.

The FY23 funding request was reduced by \$0.818M to account for the availability of prior year execution balances.

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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Previous President's Budget	4.254	4.326	0.000	0.000	0.000
Current President's Budget	4.098	4.326	3.739	0.000	3.739
Total Adjustments	-0.156	0.000	3.739	0.000	3.739
• 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	-0.156	0.000			
• Other Adjustments	0.000	0.000	3.739	0.000	3.739

**Change Summary Explanation**

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.

**C. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Title:</b> Rapid Cyber Acquisition (RCA)	4.098	4.326	3.739	0.000	3.739
<b>Description:</b> Effort utilizes hardware, software, and technical support services to deliver the tools and environments required to perform rapid prototyping, integration, and transition activities for cyber capabilities, enabling quick reaction fielding of up-to-date capabilities required by Combatant and Joint Force Commanders.					
<b>FY 2022 Plans:</b>					
- Continue to provide professional and technical subject matter expertise to deliver direction and guidance for offensive cyber operations, and computer network exploitation to support Air Force mission objectives					
- Build, maintain, and execute multidisciplinary targeting, target systems analysis, developmental planning capabilities in support of the USAF cyber mission					
- Deliver tools and environment solutions to meet specific threat-based, Combatant Command, Joint Force Commander, AF major command, and other Government Agency requirements					
- Onboard, and utilize a highly skilled rapid reaction team to prototype and deliver cyber capabilities, and perform quick look operational and technical assessments					

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
- Provide an enhanced secure lab capability to support research, prototyping, development, and testing of cyber warfare capabilities  <b>FY 2023 Base Plans:</b> - Continue to maintain, and execute multidisciplinary targeting, target systems analysis, developmental planning capabilities in support of the USAF cyber mission - Utilize developed solutions to plan standardized environments, add Hardware-in-the-Loop capabilities, deploy to edge devices, and build an authoritative pipeline solution to meet cyber operator requirements - Develop on-boarding pipeline to develop and utilize skilled rapid reaction teams to prototype and deliver cyber capability and perform quick look operational and technical assessments - Increase secure lab capability capacity to research, develop, prototype, and test cyber warfare capabilities  <b>FY 2023 OCO Plans:</b> N/A  <b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> - The FY23 funding request was reduced by \$0.818M to account for the availability of prior year execution balances.					
<b>Accomplishments/Planned Programs Subtotals</b>	4.098	4.326	3.739	0.000	3.739

**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 2023 Air Force												Date: April 2022			
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							
<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	-	-		4.326	Nov 2021	3.739	Nov 2022	-		3.739	Continuing	Continuing	3.739
<b>Subtotal</b>			-	-		4.326		3.739		-		3.739	Continuing	Continuing	N/A
<b>Support (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	-	0.145	Nov 2020	-		-		-		-	0.000	0.145	-
Cyber Capability Design	C/FFP	X8 Solutions, Inc : Oak Hill, VA	-	1.331	Mar 2021	-		-		-		-	0.000	1.331	-
Internal Development	SS/CPFF	JHU Applied Physics Lab : Baltimore, MD	-	1.522	Feb 2021	-		-		-		-	0.000	1.522	-
<b>Subtotal</b>			-	2.998		-		-		-		-	0.000	2.998	N/A
<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	-	1.100	May 2021	-		-		-		-	0.000	1.100	-
<b>Subtotal</b>			-	1.100		-		-		-		-	0.000	1.100	N/A
<b>Project Cost Totals</b>			-	4.098		4.326		3.739		-		3.739	Continuing	Continuing	N/A

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2023 Air Force							<b>Date:</b> April 2022			
<b>Appropriation/Budget Activity</b> 3600 / 7			<b>R-1 Program Element (Number/Name)</b> PE 0305881F / <i>Rapid Cyber Acquisition</i>			<b>Project (Number/Name)</b> 670374 / <i>Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</i>				
	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305881F / <i>Rapid Cyber Acquisition</i>	<b>Project (Number/Name)</b> 670374 / <i>Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</i>

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

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Air Force		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305881F / <i>Rapid Cyber Acquisition</i>	<b>Project (Number/Name)</b> 670374 / <i>Electronic Combat Spt, C3 Protection/Multi-Mission, Technology and Spt</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Cyber Capability Support Office (CCSO)</i></b>				
CCSO Technical Direction	1	2021	4	2021
Due Diligence Research and Analysis	1	2021	4	2021
Cyber Capability Design	1	2021	4	2021
Internal Development	1	2021	4	2021
JIOR Development Environment (CCSO Lab Environment)	1	2021	4	2021
<b><i>Rapid Cyber Acquisition</i></b>				
RCA Activities	1	2022	4	2027