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

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0305601F / <i>Mission Partner Environments</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	-	8.237	11.409	16.420	0.000	16.420	-	-	-	-	-	-
643783: <i>CENTRIXs Networks</i>	-	8.237	11.409	16.420	0.000	16.420	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

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

Mission Partner Environment (MPE) enables secure sharing of operational information for collaboration between and among the United States (US) and mission partners to include federal, state, local, and tribal agencies, allies, coalition members, host nations, and other nations, US and international Non-Governmental Organizations, multinational treaty organizations, and private sector organizations. MPE enables the US Department of Defense (DoD) to execute its assigned missions with mission partners across all phases of operations to assist combined command and control (C2) of coalition forces while meeting the information sharing requirements within existing bi-lateral and multi-lateral agreements. Also, it promotes effective information exchange and provides applications to enable effective use of the US and Partner nation military power. MPE provides the warfighter mission with technology to improve mission effectiveness and cyber security.

DoD Directive 5101.22E, effective August 5, 2020, designated the Secretary of the Air Force as Executive Agent (EA) for the DoD Mission Partner environment. The EA, through the Mission Partner Capabilities Office provides DoD wide enterprise-level development, integration, systems engineering, architecture, and synchronized delivery of mission capabilities to include DoD-wide enterprise services that support joint and multinational warfighting functional information sharing. Additionally, the EA executes enterprise-level MPE PPBE activities to coordinate the development of MPE budget requirements and provide recommendations to OSD Principle Staff Assistants for PPBE guidance and to the DoD Component heads for performance guidance. The EA also documents the DoD MPE to provide a comprehensive understanding that informs future technical solutions. The FY2022 funding procures hardware and software to support the rationalization, consolidation and modernization of a common mission network capability that supports operations with the MPE.

This funding supports the testing, integration, and delivery of procedures, workstations, switches, servers, cross-domain services, communications infrastructure, video teleconference suites, network equipment, storage and backup, encryption equipment, software licenses, infrastructure, deployable suites and software communications. Variations in quantity and unit price reflect planned capital investment. This funding further supports Coalition Interoperability Assurance and Validation (CIAV) technical, analytical, and engineering support to resolve C2 interoperability challenges and evaluate existing and emerging cyber capabilities and the development of the National Information Exchange Model (NIEM) in support of the MPE ecosystem. This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
Previous President's Budget	8.550	11.430	16.667	0.000	16.667
Current President's Budget	8.237	11.409	16.420	0.000	16.420
Total Adjustments	-0.313	-0.021	-0.247	0.000	-0.247
• 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	-0.313	0.000			
• Other Adjustments	0.000	-0.021	-0.247	0.000	-0.247

**Change Summary Explanation**

FY21 to FY22 increase to meet expanded capabilities in mission sets.

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
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<b>Title:</b> Mission Partner Environment	8.237	11.409	16.420
<b>Description:</b> Mission Partner Environment (MPE) enables secure sharing of operational information for collaboration between and among the United States (US) and mission partners to include federal, state, local, and tribal agencies, allies, coalition members, host nations, and other nations, US and international Non-Governmental Organizations, multinational treaty organizations, and private sector organizations.			
<b>FY 2021 Plans:</b> Continue development, integration, and testing of core C2 mission capabilities with increased capacities and integration into the cross national, cross organizational, and cross domain accreditation for C2 mission capabilities, and continuity of operations for enterprise services.			
Continue development, integration, and testing of an enterprise architectural engineering solution to combine multiple coalition information sharing capabilities into a single Mission Partner Environment, to include modifications necessary to absorb legacy systems capabilities and capacities.			
<b>FY 2022 Plans:</b> Continue development, integration, and testing of core C2 mission capabilities with increased capacities and integration into the cross national, cross organizational, and cross domain accreditation for C2 mission capabilities, and continuity of operations for enterprise services.			

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<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0305601F / <i>Mission Partner Environments</i>
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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2020	FY 2021	FY 2022
Continue development, integration, and testing of an enterprise architectural engineering solution to combine multiple coalition information sharing capabilities into a single Mission Partner Environment, to include modifications necessary to absorb legacy systems capabilities and capacities.  <b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Funding increase to meet user requirements to develop and field evolving mission sets.			
<b>Accomplishments/Planned Programs Subtotals</b>	8.237	11.409	16.420

<b>D. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• O&M PE 0305601F: <i>Mission Partner Environment</i>	79.614	139.833	133.340	-	133.340	-	-	-	-	-	-
• OPAF 03 834010: <i>General Information Technology</i>	1.585	0.478	1.553	-	1.553	-	-	-	-	-	-

**Remarks**  
N/A

**E. Acquisition Strategy**  
Performance-based contracts are primarily used for this support. MPE maximizes the use of competitive awards and uses various contract types, employs large and small contractors, and is focused to achieve agency socio-economic goals and incorporate DoD acquisition reform initiatives.

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2022 Air Force</b>												<b>Date: May 2021</b>			
<b>Appropriation/Budget Activity</b> 3600 / 4						<b>R-1 Program Element (Number/Name)</b> PE 0305601F / <i>Mission Partner Environmen</i> <i>ts</i>				<b>Project (Number/Name)</b> 643783 / <i>CENTRIXs Networks</i>					
<b>Product Development (\$ in Millions)</b>				<b>FY 2020</b>		<b>FY 2021</b>		<b>FY 2022 Base</b>		<b>FY 2022 OCO</b>		<b>FY 2022 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Cross Domain Solution Ops Capabiliites	C/FFP	MITRE Corporaton : McLean, VA	-	8.237	Mar 2020	11.409	Mar 2021	16.420	Mar 2022	-		16.420	-	-	-
<b>Subtotal</b>			-	8.237		11.409		16.420		-		16.420	-	-	N/A
			<b>Prior Years</b>	<b>FY 2020</b>	<b>FY 2021</b>		<b>FY 2022 Base</b>		<b>FY 2022 OCO</b>		<b>FY 2022 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	
<b>Project Cost Totals</b>			-	8.237	11.409		16.420		-		16.420	-	-	N/A	
<b>Remarks</b> N/A															

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2022 Air Force</b>		<b>Date: May 2021</b>
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0305601F / <i>Mission Partner Environmen</i> <i>ts</i>	<b>Project (Number/Name)</b> 643783 / <i>CENTRIXs Networks</i>

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>Development, testing of capabilities, and integration of capacities into mission capabilities with continuity of operations for enterprise services</i>	
Mission Partner Environment	
<i>Development, integration &amp; testing of an architectural engineering solution to combine coalition sharing capabilities into a single environment, to modify legacy systems capabilities and capacities</i>	
Mission Partner Environment	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2022 Air Force		<b>Date:</b> May 2021
<b>Appropriation/Budget Activity</b> 3600 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0305601F / <i>Mission Partner Environmen</i> <i>ts</i>	<b>Project (Number/Name)</b> 643783 / <i>CENTRIXs Networks</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Development, testing of capabilities, and integration of capacities into mission capabilities with continuity of operations for enterprise services</i>				
Mission Partner Environment	1	2020	4	2025
<i>Development, integration &amp; testing of an architectural engineering solution to combine coalition sharing capabilities into a single environment, to modify legacy systems capabilities and capacities</i>				
Mission Partner Environment	1	2020	4	2026

**Note**

N/A