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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Air Force **Date:** February 2020

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0305601F / <i>Mission Partner Environments</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	-	9.694	8.550	11.430	0.000	11.430	16.667	17.053	17.350	16.398	Continuing	Continuing
643783: <i>CENTRIXs Networks</i>	-	9.694	8.550	11.430	0.000	11.430	16.667	17.053	17.350	16.398	Continuing	Continuing
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.

Directive-type Memorandum (DTM) 19-002 transferred the MPE capabilities of the Combined Enterprise Regional Information Exchange System (CENTRIXS), Pegasus, the All Partners Access Network (APAN), the Combined Federal Battle Labs Network (CFBLNet) and three Virtual Data Centers (VDC), previously referred to as MPE Information Systems, to the USAF as the DoD Executive Agent for MPE. This effort increases combat effectiveness by leveraging capabilities and information from all partners. FY2021 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. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	10.074	8.550	9.076	0.000	9.076
Current President's Budget	9.694	8.550	11.430	0.000	11.430
Total Adjustments	-0.380	0.000	2.354	0.000	2.354
• 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	0.000	0.000			
• Other Adjustments	-0.380	0.000	2.354	0.000	2.354

Change Summary Explanation

FY20 to FY21 increase to meet expanded capabilities in mission sets.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
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Title: Mission Partner Environment	9.694	8.550	11.430
Description: 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.			
FY 2020 Plans: Program is developing, integrating, and testing of core interoperable C2 mission capabilities with increased capacities and increased interoperability between cross national, cross organizational, and cross domain accreditation boundaries with continuous assured enterprise-wide service operations in all phases.			
Additional efforts are developing, integrating, and testing an enterprise architectural engineering solution that is combining multiple coalition information sharing capabilities into a single Mission Partner Environment, to include modifications necessary to absorb legacy systems capabilities and capacities. The work includes technical, analytical, and engineering support to resolve C2 interoperability challenges and the development of an MPE ecosystem in compliance with the National Information Exchange Model (NIEM).			
FY 2021 Plans:			

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021
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.			
<i>FY 2020 to FY 2021 Increase/Decrease Statement:</i> Funds increased due to user requirements for an increase in mission set upgrades.			
Accomplishments/Planned Programs Subtotals	9.694	8.550	11.430

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u> <u>Base</u>	<u>FY 2021</u> <u>OCO</u>	<u>FY 2021</u> <u>Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• O&M PE 0305601F: <i>Mission Partner Environment</i>	85.963	88.717	109.053	-	109.053	132.624	141.967	144.483	146.847	Continuing	Continuing
• OPAF 03 834010: <i>General Information Technology</i>	1.873	1.585	0.478	-	0.478	1.773	1.955	1.991	2.028	Continuing	Continuing

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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Air Force **Date:** February 2020

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0305601F / <i>Mission Partner Environments</i>	Project (Number/Name) 643783 / <i>CENTRIXs Networks</i>
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Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Cross Domain Solution Ops Capabilites	C/FFP	MITRE Corporaton : McLean, VA	-	9.694	Mar 2019	8.550	Mar 2020	11.430	Mar 2021	-		11.430	Continuing	Continuing	-
Subtotal			-	9.694		8.550		11.430		-		11.430	Continuing	Continuing	N/A
Project Cost Totals			-	9.694		8.550		11.430		-		11.430	Continuing	Continuing	N/A

Remarks
N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Air Force		Date: February 2020
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0305601F / <i>Mission Partner Environments</i>	Project (Number/Name) 643783 / <i>CENTRIXs Networks</i>

FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
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

Development, testing of capabilities, and integration of capacities into mission capabilities with continuity of operations for enterprise services

Mission Partner Environment

Development, integration & testing of an architectural engineering solution to combine coalition sharing capabilities into a single environment, to modify legacy systems capabilities and capacities

Mission Partner Environment

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Air Force		Date: February 2020
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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	2019	4	2024
<i>Development, integration & 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	2019	4	2025

Note

N/A