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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 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0207438F / <i>Theater Battle Management (TBM) C4I</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	-	0.000	0.000	7.858	0.000	7.858	8.024	0.000	0.000	0.000	0.000	15.882
675218: <i>Applications Development</i>	-	0.000	0.000	7.858	0.000	7.858	8.024	0.000	0.000	0.000	0.000	15.882
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note

This is not a new start.

In FY 2021, PE 0207438F, Theater Battle Management (TBM) C4I, Project 675218, Applications Development, was transferred from PE 0305015F, C2 Air Operations Suite - C2 Information Services (C2AOS-C2IS), Project 675218, Applications Development, in order to improve transparency of development programs.

A. Mission Description and Budget Item Justification

This project funds software development capacity necessary to deliver Air Force's (AF) Command and Control (C2) capabilities and services. Applications Development is executed under the Air Operations Center (AOC) Block 20 Modification effort. Applications Development provides worldwide operational capabilities for AF C2 in support of DoD, Coalition Partners, and other government agencies. These efforts focus on support of the Joint Forces Air Component Commander (JFACC) that provides air, space and cyber support as presented to the AOC and to other AF and Joint Services C2 systems. Applications Development efforts deliver capabilities identified in the Joint Command and Control (JC2) Capability Development Document (CDD) (2013).

In FY 2021, C2 Applications Development will focus on providing software capabilities for the combat plans and operations divisions to build, disseminate and execute the Master Air Attack Plan (MAAP). C2 Applications Development also provides an Airspace Management tool used for building airspaces, evaluating requests and instantaneously generating the Airspace Control Order (ACO). These efforts deliver modern software for inclusion to the AOC Weapon System Modifications to replace the Master Air Attack Plan-Toolkit (MAAPTK) and components of Theater Battle Management Core System - Force Level (TBMCS FL). Additionally in FY 2021, this effort will investigate and develop a solution to address joint partner and non-AOC usage of C2 Applications in TBMCS FL use cases.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Applications Development weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program element 0605831F.

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	7.858	0.000	7.858
Total Adjustments	0.000	0.000	7.858	0.000	7.858
• 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	0.000	0.000	7.858	0.000	7.858

Change Summary Explanation

FY 2021 funding increased \$7.858M due to transfer from PE 03050158F, C2AOS-C2IS; based on OSD direction to keep TBMCS FL development supporting joint service AOC applications separate for transparency.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: C2 Applications Development	0.000	0.000	7.858	0.000	7.858
Description: Employ agile software development methodologies to engineer, integrate, and test modern C2 software capabilities leveraging test-driven development. Provide engineering solutions, test, and deliver effective operational C2 capabilities utilizing continuous integration and continuous delivery(CI/CD) processes.					
FY 2020 Plans: See PE 0305015F, C2 Air Operations Suite - C2 Information Services (C2AOS-C2IS), Project Number 675218, Applications Development.					
FY 2021 Base Plans: - Deliver software to AOC WS Modifications to replace the MAAPTK and portions of TBMCS FL					
FY 2021 OCO Plans: N/A					
FY 2020 to FY 2021 Increase/Decrease Statement:					

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Funding increased due to transfer from PE 0305015F, C2 Air Operations Suite - C2 Information Services (C2AOS-C2IS), Project Number 675218, Applications Development.					
Accomplishments/Planned Programs Subtotals	0.000	0.000	7.858	0.000	7.858

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPAF 03 834520: <i>Theater Battle Mgt C2 System</i>	0.000	0.000	3.045	0.000	3.045	4.734	0.000	0.000	0.000	0.000	7.779

Remarks

E. Acquisition Strategy

The acquisition strategy builds on agile development and modification of existing capabilities using evolutionary acquisition to standardize and modernize C2 Applications Development. C2 Applications Development will operate under FY16 NDAA, Section 804, Middle Tier of Acquisition for Rapid Prototyping and Rapid Fielding, leveraging commercial best practices to fully retire MAAPTK and components of TBMCS FL.

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Air Force		Date: February 2020
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207438F / Theater Battle Management (TBM) C4I	Project (Number/Name) 675218 / Applications Development

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

Applications Development	
C2 Applications Development	██

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Air Force		Date: February 2020
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207438F / Theater Battle Management (TBM) C4I	Project (Number/Name) 675218 / Applications Development

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Applications Development				
C2 Applications Development	1	2021	4	2022

Note
See PE 0305015F, C2 Air Operations Suite - C2 Information Services (C2AOS-C2IS), Project 675218, Applications Development, for prior years development events.