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

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 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	-	7.660	7.905	5.851	0.000	5.851	6.452	6.611	6.751	6.901	0.000	48.131
675218: <i>Applications Development</i>	-	7.660	7.905	5.851	0.000	5.851	6.452	6.611	6.751	6.901	0.000	48.131
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This project funds software development capacity necessary to deliver the 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). This program is part of the overarching Kessel Run portfolio and is dependent on the All Domain Common Platform (ADCP). The ADCP provides an extensible cloud-based Infrastructure and Platform as a Service (IaaS/PaaS) hosting platform built to deliver highly resilient mission applications and data to Airmen deployed around the world.

In FY 2023, 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). 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 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, 0606398F. In FY2021, \$1.928M was expended for civilian pay expenses in this program element, and in FY2022 \$2.401M 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 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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	7.844	7.905	0.000	0.000	0.000
Current President's Budget	7.660	7.905	5.851	0.000	5.851
Total Adjustments	-0.184	0.000	5.851	0.000	5.851
• 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	-0.184	0.000			
• Other Adjustments	0.000	0.000	5.851	0.000	5.851

Change Summary Explanation

FY2023: 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)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: C2 Applications Development	7.660	7.905	5.851	0.000	5.851
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 2022 Plans: - Deliver software to AOC WS Modifications to incrementally replace the MAAPTK and portions of TBMCS FL					
FY 2023 Base Plans: - Continue delivery of software to AOC WS Modifications to incrementally replace MAAPTK and portions of TBMCS FL					
FY 2023 OCO Plans: N/A					
FY 2022 to FY 2023 Increase/Decrease Statement:					

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Decrease of funding due to reduction of development efforts.					
Accomplishments/Planned Programs Subtotals	7.660	7.905	5.851	0.000	5.851

D. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• OPAF 03 834520: <i>Theater Battle Mgt C2 System</i>	3.045	3.683	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	6.728
• OPAF 03 833140: <i>Strategic Command And Control</i>	0.000	3.541	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
• RDTE 07 0303248F: <i>All Domain Common Platform</i>	0.000	64.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
• RDTE 08 0308606F: <i>All Domain Common Platform (ADCP) - Software Pilot Program</i>	0.000	0.000	190.112	-	190.112	175.196	190.889	187.666	188.307	Continuing	Continuing

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 authority of a Software Acquisition Pathway following DoDI 5000.87, Operation of Software Acquisition Pathway Guidance.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Air Force **Date:** April 2022

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207438F / Theater Battle Management (TBM) C4I	Project (Number/Name) 675218 / Applications Development
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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
C2AOS-C2IS Agile Software Development	C/T&M	Multiple : Multiple	-	5.732	Nov 2020	5.152	Nov 2021	3.176	Oct 2022	-		3.176	Continuing	Continuing	-
Subtotal			-	5.732		5.152		3.176		-		3.176	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
C2AOS-C2IS Civilian Direct Cite Authorizations for Product Development	Allot	AFLCMC/FZA : TBD	-	1.928	Oct 2020	2.401	Oct 2021	2.402	Oct 2022	-		2.402	Continuing	Continuing	-
Subtotal			-	1.928		2.401		2.402		-		2.402	Continuing	Continuing	N/A

Management Services (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Program Management Administration	Various	Multiple : TBD	-	-		0.352	Apr 2022	0.273	Apr 2023	-		0.273	Continuing	Continuing	-
Subtotal			-	-		0.352		0.273		-		0.273	Continuing	Continuing	N/A

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals		-	7.660	7.905	5.851	-	5.851	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Air Force		Date: April 2022
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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

Applications Development	
C2 Applications Development	

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force		Date: April 2022
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Applications Development				
C2 Applications Development	1	2021	4	2027