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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Air Force **Date:** March 2024

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 0305015F / C2 Air Operations Suite - C2 Info Services
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	7.499	13.751	13.524	0.000	13.524	13.913	14.184	14.477	14.762	Continuing	Continuing
675218: <i>Applications Development</i>	-	7.499	13.751	13.524	0.000	13.524	13.913	14.184	14.477	14.762	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This budget line funds the development of the Command and Control, Incident Management, Emergency Response Application (C2IMERA), a C2 system that addresses installation commander's and staff's ability to support Airfield, Flight and Emergency Operations. C2IMERA funds provide enhanced installation C2 to improve decision speed, quality, and lethality by incorporating direct user feedback, connecting people, automating daily operations, and integrating data from myriad systems. C2IMERA receives input from users and system interfaces and displays data on the real-time, interactive Common Operating Picture (COP) and consolidated dashboards. C2IMERA also provides a theater level Higher Headquarters (HHQ) module to aggregate critical data theater-wide to improve real-time awareness. C2IMERA provides automated updates via the COP, as well as notifications via emails and alerts, alleviating the need for briefings, meetings, and radio communication(s).

The C2IMERA operational concept has three capability areas:

- C2 collaboration across the Wing - operate/fight the base
- Wing Situational Awareness
- Wing Collaboration/reporting to HHQ (i.e., Air Operations Center (AOC), the Air Force Forces (AFFOR), Command Center etc.)

Requirements also include supporting base operations, mission management and monitoring, HHQ Information Exchange Requirements (IERS), Emergency Action Messaging, Situation Report (SITREP) automation, and other key enablers supporting the operational concept.

FY25 funds will continue to support Agile DevOps enabling the delivery of new advanced features to C2IMERA following the completion of the codebase re-architecture from a monolithic codebase to a microservices based, multi-tenant application. These features will focus on interoperability and new system integrations to provide enhanced automated data workflows through creating new/expanding previous connections to authoritative data sources, new and improved UX/UI features leveraging the global federated system architecture, and expanded integration with the joint C2 network.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such program's funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY23 \$0.676M was expended for civilian pay expenses in this program element, and in FY24 \$0.275M 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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	7.708	13.751	13.500	0.000	13.500
Current President's Budget	7.499	13.751	13.524	0.000	13.524
Total Adjustments	-0.209	0.000	0.024	0.000	0.024
• 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	-0.209	0.000			
• Other Adjustments	0.000	0.000	0.024	0.000	0.024

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
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Title: Command and Control, Incident Management, Emergency Response Application (C2IMERA)

Description: C2IMERA will improve Installation command and control by connecting people, integrating data, and automating daily operations. The aggregation of theater data and activities enhances Operational C2 as well as increases decision speed and operational advantage. This is accomplished by incorporating direct user feedback, connecting people, automating daily operations, and integrating data from myriad systems. C2IMERA receives input from users and system interfaces and the data is displayed on the real-time, interactive COP. C2IMERA provides automated updates via the COP, as well as notifications via emails and alerts, alleviating the need for briefings, meetings, and radio communication(s).

FY 2024 Plans:
 Activities include, but are not limited to the following:
 -Complete microservices architecture improvements and deprecation of monolith baseline.
 -Modernize application architecture for growth, performance, and reliability to support greater number of users, processing larger quantities of data simultaneously, and improve user experience with less downtime and performance delay.
 -Improve the existing COP and expand map layer services including plotting additional data objects on the map with ability to create, update, and delete.
 -Begin migration to multi-tenant capabilities.
 -Lead and manage program through daily interaction with contractor and key stakeholders.
 -Identify, monitor, mitigate and report program and known risks associated with software and testing.
 -Expand integration with the joint C2 framework.
 -Enhance UI/UX functionality and features by designing for a fully federated global application

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
<p>-Explore interoperability opportunities with HHQ, Ops Center, AOC, Joint, and Coalition partner levels to support Globally Integrated Operations (GIO).</p> <p>-Discovery/Framing with Kessel Run's Rebel Alliance data sharing service.</p> <p>-Discovery/Framing with the Kessel Run All-Domain Operations Suite (KRADOS) applications.</p> <p>FY 2025 Plans: Activities include, but are not limited to the following:</p> <ul style="list-style-type: none"> -Will fully implement multi-tenant capabilities for a fully federated global application. -Will expand data sets for cross domain NIPR to SIPR data transfer. -Will expand Denied, Disrupted, Intermittent, and Limited bandwidth capabilities in support of JADC2/ACE. -Will integrate with authoritative data sources to enhance interoperability. -Will enhance UI/UX functionality and features for fully federated global application. -Will expand integration with joint C2 framework. -Will continue with the automated workflow and improved system integration with continued interface. development focusing on the fusion of installation/base C2 node data with MAJCOM and HHQ level systems at the strategic levels. -Will lead and manage the program through daily interaction with contractor and key stakeholders. -Will identify, monitor, mitigate, and report program and known risks associated with software and testing. -Will integrate with external data sharing services to provide Friendly Order-of-Battle (FrOB) data to feed near real-time Common Operating Picture (COP). -Will integrate with KRADOS applications. <p>FY 2024 to FY 2025 Increase/Decrease Statement: FY25 funding decreases due to the completion of the microservices architecture and multi-tenant initial operational capability, resulting in a minor reduction in required expertise.</p>			
Accomplishments/Planned Programs Subtotals	7.499	13.751	13.524

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2025</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u>	<u>Total Cost</u>
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	
• RDTE 07 0604617F: <i>Agile Combat Support</i>	7.937	5.645	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	13.582

Remarks

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E. Acquisition Strategy

The acquisition strategy builds on agile software engineering methodologies and modernization of existing capabilities utilizing evolutionary acquisition. Using Section 804, timelines are reduced by modularizing both software engineering solutions and the associated contracting and funding strategies. This enables dynamic resource allocation based on current warfighter needs. The desired end state is continuous delivery of software. In FY20, the decision was made to transition from Middle Tier of Acquisition (MTA), Section 804 Rapid prototyping/Fielding to the Software Acquisition Pathway. This program is dependent on support from the All Domain Common Platform (ADCP).

Program management for the C2IMERA program is under direction of PEO Digital, located at Hanscom AFB, MA. The Air Force Life Cycle Management Center (AFLCMC) located at Hanscom AFB, MA is the contracting authority for the C2IMERA program. AFLCMC provides contracting, legal, comptroller, programmatic, engineering, test, and logistics support.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Air Force												Date: March 2024				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
3600 / 7				PE 0305015F / C2 Air Operations Suite - C2 Info Services				675218 / Applications Development								
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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	
C2IMERA Development	C/Various	Leidos : Reston, VA	-	4.268	Jan 2023	9.432	Nov 2023	9.454	Nov 2024	-		9.454	Continuing	Continuing	-	
Subtotal			-	4.268		9.432		9.454		-		9.454	Continuing	Continuing	N/A	
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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	
C2IMERA Test Support	PO	96th Test Wing : Eglin, FL	-	0.250	Jan 2023	0.265	Jan 2024	0.231	Jan 2025	-		0.231	Continuing	Continuing	-	
Subtotal			-	0.250		0.265		0.231		-		0.231	Continuing	Continuing	N/A	
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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	
C2IMERA Program Support	C/Various	Not specified. : Hanscom AFB, MA	-	2.592	Jul 2023	3.245	Jan 2024	3.326	Jan 2025	-		3.326	Continuing	Continuing	-	
C2IMERA Systems Engineer	SS/ Various	Not specified. : Hanscom AFB, MA	-	0.389	Oct 2022	0.809	Oct 2023	0.513	Oct 2024	-		0.513	Continuing	Continuing	-	
Subtotal			-	2.981		4.054		3.839		-		3.839	Continuing	Continuing	N/A	
Project Cost Totals			-	7.499		13.751		13.524		-		13.524	Continuing	Continuing	N/A	
Remarks																

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0305015F / C2 Air Operations Suite - C2 Info Services	Project (Number/Name) 675218 / Applications Development

FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
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

Software Development	
C2IMERA Software development	
Test	
C2IMERA Test	

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Air Force		Date: March 2024
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0305015F / C2 Air Operations Suite - C2 Info Services	Project (Number/Name) 675218 / Applications Development

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Software Development				
C2IMERA Software development	1	2023	4	2029
Test				
C2IMERA Test	1	2023	4	2029

Note
See PE 0207522F, Airbase Air Defense Systems (ABADS), Project Number 675218, Applications Development for previous development events.