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

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0305015F / C2 Air Operations Suite - C2 Info Services
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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	-	0.000	0.000	8.097	0.000	8.097	8.282	0.000	20.463	20.086	0.000	56.928
675218: <i>Applications Development</i>	-	0.000	0.000	8.097	0.000	8.097	8.282	0.000	20.463	20.086	0.000	56.928
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

**Note**  
In FY 2023, DevOps efforts in PE 0207522F, Airbase Air Defense Systems (ABADS), Project 675218, Applications Development efforts are transferred to PE 0305015F, C2 Air Operations Suite - C2 Info Services, Project 675218, Applications Development.

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

Command and Control, Incident Management, Emergency Response Application (C2IMERA) is a C2 system that addresses installation commanders' and staff's ability to support Airfield, Flight and Emergency Operations. C2IMERA funds provide enhanced installation command and control 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 module to aggregate theater-wide installation to provide real-time awareness of critical data. C2IMERA provides automated communications via the COP, automated emails, notifications, 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., AOC, AFFOR, Command Center etc.)

Requirements include Command and Control Operations Career Field (1C3X1) community as the core Installation C2 node, supporting Base Operations, Mission Management and Monitoring, Higher Headquarters Information Exchange Requirements (IERS), Emergency Action Messaging, Situation Reports (SITREP) automation, and other key enablers supporting the operational concept.

C2IMERA FY23 funds will support the Agile Dev Ops development of enhanced architecture to make C2IMERA more scalable, add additional integrations and enhance data automation. This includes architecting the application to operate in Degraded, Disconnected, Intermittent and Low-Bandwidth (D-DIL) environments to support key operational concepts such as Agile Combat Employment.

This program is part of the overarching Kessel Run portfolio.

No Budget Year FY22 funding requested; FY22 project efforts are detailed in PE 0207522F, Airbase Air Defense Systems.

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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 FY21 \$0.00M was expended for civilian pay expenses in this program element, and in FY22 \$0.00M 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.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	8.097	0.000	8.097
Total Adjustments	0.000	0.000	8.097	0.000	8.097
• 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	8.097	0.000	8.097

**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 FY 2023 cannot be made in a relevant manner.

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> Command and Control, Incident Management, Emergency Response Application (C2IMERA)	0.000	0.000	8.097
<b>Description:</b> C2IMERA will provide enhanced installation command and control 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 the data is displayed on the real-time, interactive COP. C2IMERA provides automated communications via COP, emails, notifications, and alerts, alleviating the need for briefings, meetings, and radio communication.			
<b>FY 2022 Plans:</b>			

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<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0305015F / C2 Air Operations Suite - C2 Info Services
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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
See PE 0207522F, Airbase Air Defense Systems (ABADS), Project Number 675218, Applications Development.			
<b><i>FY 2023 Plans:</i></b> -Continue further development of Advanced Battle Management System (ABMS)/Joint All Domain Command and Control (JADC2) capabilities to provide critical evolving capabilities integrating Installation Command and Control (IC2) with air operations at Major Command (MAJCOM) and Higher Headquarter (HHQ) levels. This includes enhancing system and data resiliency with edge computing technologies tied into the enterprise computing infrastructure. -Continue with the extension of Cross-Domain capabilities to support full data synchronization between the low side (NIPR) and high side (SIPR) C2IMERA instances to facilitate Joint All- Domain Command and Control (JADC2). -Continue with the enterprise employment of C2IMERA for installation and wing command and control to enhance warfighter effectiveness and impacts achieved through an overhaul of the C2IMERA data model and a consolidated/federated data access layer. -Continue with architectural improvements to transition from incrementally delivered micro services to a single-tenancy implementation with support for Software as a Service (SaaS). -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. -Migrate to All Domain Common Platform (ADCP)			
<b><i>FY 2022 to FY 2023 Increase/Decrease Statement:</i></b> C2IMERA moved from PE 0207522F to PE 0305015F.			
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	0.000	8.097

<b>D. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• RDTE 07 0604617F: <i>Agile Combat Support</i>	0.000	0.000	7.922	-	7.922	5.426	0.000	0.000	0.000	0.000	13.348

**Remarks**

**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 Summer of FY20, the decision was made to transition from MTA, Sec 804 Rapid prototyping/Fielding to the new NDAA FY20 - Software Acquisition Pathway, which is the preferred path for acquisition and development of

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**R-1 Program Element (Number/Name)**  
PE 0305015F / *C2 Air Operations Suite - C2 Info Services*

software-intensive systems. 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.

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

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<b>Product Development (\$ in Millions)</b>				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			
C2IMERA Development	TBD	TBD : TBD	-	0.000		-		4.866	Jan 2023	-		4.866	0.000	4.866	-
<b>Subtotal</b>			-	0.000		-		4.866		-		4.866	0.000	4.866	N/A

<b>Test and Evaluation (\$ in Millions)</b>				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			
C2IMERA Test Support	PO	96th Test Wing : Eglin, FL	-	-		-		0.250	Jan 2023	-		0.250	0.000	0.250	-
<b>Subtotal</b>			-	-		-		0.250		-		0.250	0.000	0.250	N/A

<b>Management Services (\$ in Millions)</b>				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			
C2IMERA Program Management Administration	C/Various	Not specified. : Hanscom AFB, MA	-	-		-		2.592	Jul 2023	-		2.592	0.000	2.592	-
C2IMERA Systems Engineer	SS/ Various	Not specified. : Hanscom AFB, MA	-	-		-		0.389	Oct 2023	-		0.389	Continuing	Continuing	-
<b>Subtotal</b>			-	-		-		2.981		-		2.981	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	
<b>Project Cost Totals</b>		-	0.000	-	8.097	-	8.097	Continuing	Continuing	N/A

**Remarks**  
C2AOS-C2IS funding transferred to PE 0207438F, Theater Battle Management (TBM) C4I, Project Number 675218, Applications Development.



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Air Force		<b>Date:</b> April 2022
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Software Development</b>				
C2IMERA Software development	1	2023	4	2023
<b>Test</b>				
C2IMERA Test	1	2023	4	2023

**Note**  
See PE 0207438F, Theater Battle Management (TBM) C4I, Project Number 675218, Applications Development for continued development events.