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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 0604617F / <i>Agile Combat Support</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	-	0.000	0.000	8.199	0.000	8.199	5.632	0.000	0.000	0.000	0.000	13.831
675218: <i>Applications Development</i>	-	0.000	0.000	8.199	0.000	8.199	5.632	0.000	0.000	0.000	0.000	13.831
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note
 In FY 2023, PE 0207522F, Airbase Air Defense Systems (ABADS), Project 675218, Applications Development efforts are transferred to PE 0604617F, Agile Combat Support, 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.)

As part of C2IMERA, Disaster Response Force Common Operating Picture (DRF COP) funds identify and/or develop, implement, and maintain an interoperable, standardized, singular, and near real-time situational awareness COP for Air Force disaster response forces to prevent, protect, mitigate, respond to, and recover from threat/hazard effects that pose the greatest risk to lives, resources, infrastructure, and missions. DRF COP supports incidents or events at the tactical, operational, and strategic level, allowing information to be shared and exchanged across the Air Force enterprise and other relevant external agencies within the Continental United States (CONUS) and Outside the Continental United States (OCONUS) Air Force Installations. As the program evolves, the DRF COP nomenclature will be replaced by the Department of Air Force (DAF) Emergency Management Information System (EMIS).

Requirements include 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.

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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. In FY 2023, PE 0207522F, Airbase Air Defense Systems (ABADS), Project 675218, Applications Development efforts are transferred to PE 0604617F, Agile Combat Support, Project 675218, Applications Development.

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. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	0.000	8.199	0.000	8.199
Total Adjustments	0.000	0.000	8.199	0.000	8.199
• 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	8.199	0.000	8.199

Change Summary Explanation

The FY2022 President's Budget submittal did not reflect FY2023 through FY2026 funding. Therefore, an explanation of the change between the two budget positions for FY2023 cannot be made in a relevant manner.

In FY 2023, PE 0207522F, Airbase Air Defense Systems (ABADS), Project 675218, Applications Development efforts are transferred to PE 0604617F, Agile Combat Support, Project 675218, Applications Development.

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C. Accomplishments/Planned Programs (\$ in Millions)					
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	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<p>Title: Disaster Response Force Common Operating Picture (DRF COP)</p> <p>Description: DRF COP supports incidents or events at the tactical, operational, and strategic level, allowing information to be shared and exchanged across the Air Force enterprise and other relevant external agencies within the Continental United States (CONUS) and Outside the Continental United States (OCONUS) Air Force Installations.</p> <p>FY 2022 Plans: N/A</p> <p>FY 2023 Base Plans:</p> <ul style="list-style-type: none"> -Continue refinement of Disaster Response Force Common Operating Picture (DRF COP) capabilities to include enhanced automated integration with local, state, and federal safety agencies solutions. - Excavate, consolidate, correlate, and propagate information needed to mitigate/build resiliency, prevent, protect against, respond to, and recover from threats/hazards that pose the greatest risk to lives, resources, infrastructure, and missions world-wide. - Integrate kinetic and non-kinetic systems (radars, drones, sensors) to compress decision-making cycles; propagate DAF strategic, operational, and tactical command and control common operating pictures; and facilitate convergence of effects through sensing, making sense, and taking action. -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 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) <p>FY 2023 OCO Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement:</p>	0.000	0.000	8.199	0.000	8.199

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
In FY 2023, PE 0207522F, Airbase Air Defense Systems (ABADS), Project 675218, Applications Development efforts are transferred to PE 0604617F, Agile Combat Support, Project 675218, Applications Development. This is not a new start in FY23.					
Accomplishments/Planned Programs Subtotals	0.000	0.000	8.199	0.000	8.199

D. Other Program Funding Summary (\$ in Millions)
N/A

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

Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0604617F / <i>Agile Combat Support</i>	Project (Number/Name) 675218 / <i>Applications Development</i>
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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

Software development	
DRF COP Software development	[REDACTED]

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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
<i>Software development</i>				
DRF COP Software development	1	2023	4	2024