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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 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604003F / <i>Advanced Battle Management System (ABMS)</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	-	152.691	268.849	231.408	0.000	231.408	556.108	681.467	870.839	614.744	Continuing	Continuing
640141: <i>Advanced Battle Management System (ABMS)</i>	-	152.691	268.849	231.408	0.000	231.408	556.108	681.467	870.839	614.744	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

ABMS is the top modernization priority for the Department of the Air Force (DAF) and its primary contribution to provide decision superiority and meet the Joint All-Domain Command and Control (JADC2) requirements. JADC2 requires that individual military activities not simply be deconflicted, but be integrated - activities in one domain must enhance the effectiveness of those in other domains and compensate for vulnerabilities. ABMS will connect sensors, systems, and weapons across both the U.S. Space Force and U.S. Air Force. ABMS is not a platform or sensor, but instead will be the essential data network that connects and empowers current and future platforms to fight and win in the modern era as defined by the National Defense Strategy and Joint All-Domain Operations Department of Defense directives. Legacy and future sensors from a variety of programs and sources produce data that needs to be made available to those people and systems that need it most. Multi-level secure processing occurs on global distributed clouds, tactical edge nodes, infrastructure, platforms, and end user devices where operators interface with the data and applications at the required classification level. For information to flow, the network must be enabled by a combination of government and commercial connectivity pathways to move data to and through a suite of cloud and local edge-based applications that make sense of the environment and apply advanced algorithms aided by artificial intelligence and machine learning. Strategic, operational, and tactical operators use these applications to manage and direct the desired effects using machine-to-machine connections.

On 24 Nov 2020, the DAF Rapid Capabilities Office (DAF RCO) became the ABMS Integrating Program Executive Office (PEO) in a deliberate transition to start acquiring enduring ABMS capability through focused acquisition efforts and investments in robust digital infrastructure.

ABMS, as an acquisition effort managed by the DAF RCO, will pursue two parallel, symbiotic investment strategies under PE 0604003F: enduring digital infrastructure investments and Capability Releases (CRs) focused on closing kill-chains and delivering immediate operational capability to the warfighter. DAF RCO will focus ABMS investments on six capabilities as part of digital infrastructure and CRs:

1. Secure Processing: The hardware and software for processing and storage through multi-level security globally and edge enabling a full range of military operations.
2. Connectivity: Maturation and integration of open software-defined radios and networks, government-owned waveform libraries, and wideband multi-function RF systems. This element also includes the integration and standards required to leverage advances in commercial technology such as Open Communications Standards (OCS), 5G networks, and connections through multi-orbit satellite communications.

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<p>3. Data Management: Cloud-based data libraries, data feeds, data wrappers, software-defined data management, and content routing to improve data discoverability and information sharing across the joint force for legacy and future platforms and programs.</p> <p>4. Applications: Cloud-based applications to provide User Interface/User Experience (UI/UX) capabilities that will position warfighters "on the loop" to provide robust and dynamic battle management, command and control (BMC2) functionality, improved timing, and enhanced decision advantage.</p> <p>5. Sensor Integration: ABMS will develop government-owned standards and provide open and reusable capabilities, to ensure interoperability with the ABMS digital infrastructure for existing and future military systems.</p> <p>6. Effects Integration: ABMS will develop government-owned standards to ensure the successful integration of DAF and Joint effects capabilities into the ABMS digital infrastructure for existing and future military systems.</p> <p>The ABMS Battle Lab will be a digital infrastructure experimentation environment to explore new command and control technologies and develop C2 tactics, techniques, and procedures. The ABMS Battle Lab will allow warfighters direct interaction with software development teams and prototypes in development, which speeds up the feedback loop and product maturity.</p> <p>The first Capability Release is the Airborne Edge Node (AEN): Leveraging government reference architecture and the enduring digital infrastructure investments in Secure Processing, Connectivity, and Data Management, ABMS Capability Release #1 will connect select Tac Air assets and C2 functions to the ABMS cloud at the tactical edge, enhancing Situational Awareness and decision making at the tactical, operational, and strategic levels. AEN's first implementation will be in a podded solution on the KC-46. This will include a Situational Awareness Tool, which will host mission-relevant applications, and be developed as a roll-on/roll-off stand-alone capability using commercial solutions. CR #1 is the first prototype effort for AEN, and will inform future design and fielding decisions for other platforms and C2 functions to connect to the ABMS cloud.</p> <p>Cloud-Based C2 (CBC2) modernizes battle management and command and control functions by replacing four existing C2 systems with modern applications, enhanced by AI/ML, to create a common operating picture. The intent is to develop hardware and software solutions that are extensible to all Combatant Commands (COCOMs).</p> <p>ABMS funding provides for program management support, operational concept development and demonstration, hardware development and integration, software development and integration, and other government costs. The funding will also enable the limited transition of mature and ready capabilities to appropriate programs of record in synchronization with planned modernization activities.</p> <p>Effective FY22, the categories of Digital Architecture, Standards, and Concepts and Architecture Experimentation and Evaluation are no longer aligned under this PE or executed by the DAF RCO. These efforts can be located in PE 0604006F.</p> <p>This program element may include necessary civilian pay and National Guard/Reserve Duty expenses required to manage, execute, and deliver ABMS 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,</p>		

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0605833F, 0605898F, 0606398F. In FY21 \$0.848M was expended for civilian pay expenses in this program element, in FY22 forecasted \$0.055M civilian pay expenses in this program element, and in FY23 no funding is currently forecasted for civilian pay expenses in this program element.

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	158.492	203.849	0.000	0.000	0.000
Current President's Budget	152.691	268.849	231.408	0.000	231.408
Total Adjustments	-5.801	65.000	231.408	0.000	231.408
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	65.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-5.801	0.000			
• Other Adjustments	0.000	0.000	231.408	0.000	231.408

Change Summary Explanation

FY 2021: Program reduced -5.801M in total due SBIR/STTR transfer in the year of execution.

FY 2022: FY22 reflects enacted numbers. Program increased 65.00M (50.00M for Digital Infrastructure and 15.00M general program increase).

FY 2023: Previous President's Budget did not include an FY23 base amount. The current President's Budget reflects the ABMS requested budget position of \$231.408M.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
Title: Digital Infrastructure	21.591	107.549	86.608
Description: The first three ABMS capabilities (secure processing, connectivity, and data management) are considered the core digital infrastructure and the emphasis of future investments to ensure the ability to connect the joint force and allow decision making superiority at the tactical, operational, and strategic levels faster than the adversary.			
Secure Processing: Represents the physical infrastructure DAF RCO intends to procure in the initial phase. Investments focus on hybrid commercial and tactical edge multi-level security, multi-cloud environments resulting in secure compute and storage			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>capability. Solutions will provide tactical edge secure processing environments and tools enabling remote operations as well as 'on the move' when disconnected from the broader network and global environment. These secure processing solutions will host critical services such as robust data management solutions, zero-trust multi-level security applications, Artificial Intelligence (AI) algorithms and Machine Learning (ML) capabilities.</p> <p>Connectivity: Delivers capabilities to enable resilient, robust communications and the transport of data globally, to the edge, and through space. This will include the software-defined networking and routing layer to enable content routing across connected nodes through government as well as commercial communication paths. ABMS will integrate into existing and future connectivity solution efforts in order to bridge gaps across existing and future platforms. ABMS will leverage Open Communications Standard (OCS) software-defined radios for integration onto platforms, enabling competitive rapid upgrading and the addition of new waveforms over time. Leveraging OCS for legacy and non-native platforms will allow communication through translation and relay. The software-defined radio solution intended for Capability Release #1 builds on OCS technology in partnership with other PEOs across the DAF. Lastly, ABMS will leverage the rapidly advancing commercial satellite ecosystem to ensure robust and resilient connectivity for the Joint Force.</p> <p>Data Management: Technologies and solutions will expose data through widely used commercial best practices and techniques such as Application Program Interfaces (APIs), and standardized data fabric solutions. This capability includes the capability for machine-assisted tagging of data across the DAF to enable rapid exploitation and processing. These techniques enable data to rapidly and securely move across multiple security levels and support decision making. Other high priority data management solutions include critical investments in zero-trust multi-level security applications, Artificial Intelligence (AI) applications, and Machine Learning (ML) capabilities.</p> <p>Title: ABMS Battle Lab Description:</p> <p>The ABMS Battle Lab will be a digital infrastructure experimentation environment to explore new command and control technologies and develop C2 tactics, techniques, and procedures. The ABMS Battle Lab will allow warfighters direct interaction with software development teams and prototypes in development, which speeds up the feedback loop and product maturity.</p> <p>FY 2022 Plans: Establish ABMS Consortium comprised of traditional and non-traditional companies to perform Operational Analysis, Mission Analysis, Systems Engineering, and Integration of the ABMS Digital Infrastructure.</p>				

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<ul style="list-style-type: none"> • Continue maturing CONUS and OCONUS clouds by adding more data types, data transfers across classification levels, establishing data and network management standards and tools, and developing and hosting cloud-native applications. • Mature connections between CONUS, OCONUS, and existing clouds. • Begin data architecture, data tagging and data orchestration design solutions and prototypes that enable available data to be exposed, processed and transferred amongst multi-level security ABMS cloud environments. <p>• ABMS Battle Lab:</p> <ul style="list-style-type: none"> - Refine ABMS Battle Lab definition and initial integrations -- Establish MVP at ShOC-N and Ryan Center -- Integrate with NORAD-USNORTHCOM Homeland Defense Ecosystem -- Establish Battle Lab Data Broker - Develop Instrumentation Plan <p><i>FY 2023 Plans:</i> Continue ABMS Consortium comprised of traditional and non-traditional companies to perform Operational Analysis, Mission Analysis, Systems Engineering, and Integration of the ABMS Digital Infrastructure.</p> <ul style="list-style-type: none"> • Continue maturing CONUS and OCONUS clouds by adding more data types, data transfers across classification levels, establishing data and network management standards and tools, and developing and hosting cloud-native applications. • Continue maturing connections between CONUS, OCONUS, and existing clouds. • Continue data architecture, data tagging and data orchestration design solutions and prototypes that enable available data to be exposed, processed and transferred amongst multi-level security ABMS cloud environments. <p>• ABMS Battle Lab:</p> <ul style="list-style-type: none"> - Integrate with and expand Battle Lab connections to additional sites / C2 programs - Integrate with and expand Battle Lab connections to Joint Partners, to include Project Convergence and Project Overmatch - Begin deployment of ABMS Digital Infrastructure to the Battle Lab - Integrate with Capability Release #1, Line of Effort #3 <p><i>FY 2022 to FY 2023 Increase/Decrease Statement:</i> An increased focus on Operational Analysis and Capability Needs Statements to focus requirements, coupled with applying cloud-based C2 solutions to multiple Combatant Commands (COCOMs), and a Non-Advocate Cost Assessment (NACA) by the</p>			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
Air Force Cost Analysis Agency (AFCAA) on Capability Release #1, the costs for Digital Infrastructure and Capability Releases increase from FY22 to FY23.				
<p>Title: Capability Releases</p> <p>Description: Capability Releases (CRs) deliver operational capability by leveraging and/or supplementing digital infrastructure investments, while making targeted investments in the remaining three ABMS capabilities of Applications, Sensor Integration, and Effects Integration areas.</p> <p>Title: Capability Release #1 (Airborne Edge Node) Description: Based off of CSAF and CSO requirements and technical maturity, Capability Release #1 (Airborne Edge Node, AEN): Leveraging government reference architecture and the enduring digital infrastructure investments in Secure Processing, Connectivity, and Data Management, ABMS Capability Release #1 will connect select Tac Air assets and C2 functions to the ABMS cloud at the tactical edge, enhancing Situational Awareness and decision making at the tactical, operational, and strategic levels. AEN's first implementation will be in a podded solution on the KC-46. This will include a Situational Awareness Tool, which will host mission-relevant applications, and be developed as a roll-on/roll-off stand-alone capability using commercial solutions. CR #1 is the first prototype effort for AEN, and will inform future design and fielding decisions for other platforms and C2 functions to connect to the ABMS cloud.</p> <p>Title: Cloud-Based C2 Description: Cloud-Based C2 (CBC2) modernizes battle management and command and control functions by replacing four existing C2 systems with modern applications, enhanced by AI/ML, to create a common operating picture. The intent is to develop hardware and software solutions that are extensible to all Combatant Commands (COCOMs).</p> <p>FY 2022 Plans:</p> <ul style="list-style-type: none"> • Capability Release #1 (Airborne Edge Node): - Deliver completed open architecture communications subsystems and continue test flights and risk reduction activities - Complete designs and begin development activities to integrate the communications subsystem into a pod form factor for integration on the KC-46 		67.300	161.300	144.800

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<ul style="list-style-type: none"> - Develop/select applications to be hosted on the edge compute node to demonstrate processing at the tactical edge and increased SA aboard the KC-46 - Begin build of additional podded systems to meet quantities in the requirement - Coordinate with platform program office(s) on the scope of the Technical Data Package to enable potential follow-on development and/or procurement activities • Cloud-Based C2: <ul style="list-style-type: none"> - Initiate design activities focused on developing a scalable and extensible data-cloud architecture that leverages artificial intelligence/machine learning (AI/ML) applications and produces a common operating picture. - Develop shared visualization of multiple sources: automated & fused 2D/3D representation of air domain - Ingest, fuse, and analyze data from military, government, and commercial sources to multi-classification cloud environments - Develop automated and operator-selectable tasking of assets, voice, data, and C2 - Stand up ABMS Software Integrator that will help integrate new and existing development teams to create a micro-services Cloud-Based C2 system for N&NC that is fully government owned - Build micro-services based software applications that will enable Cloud-Based C2 - Design and build infrastructure pieces to support Cloud-Based C2 to include but not limited to: platform, cloud, cloud outposts, data transport, tactical data bus, identity management, zero trust network, cyber defense and data storage solutions - Initiate Quarterly minimum viable product (MVP) releases, iteratively building out the Cloud-Based C2 application/software baseline, initially geared towards NORAD & NORTHCOM (N&NC) implementation and execution. <i>FY 2023 Plans:</i> <ul style="list-style-type: none"> • Capability Release #1 (Airborne Edge Node): <ul style="list-style-type: none"> - Complete integration of capability on the KC-46 and conduct flights for test, military utility assessments, and Concept of Operations experimentation - Complete development of a palletized compute and store enclave with local cloud storage, cloud synchronization, and network management functions - Complete build of additional podded systems to meet quantities in the requirement - Maximize use of digital engineering, modern software development practices, and open architecture principles; develop Technical Data Package to enable potential follow-on development and integration activities • Cloud-Based C2: 			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<ul style="list-style-type: none"> - Continue design development activities focused on developing a scalable and extensible data-cloud architecture that leverages artificial intelligence/machine learning (AI/ML) applications and produces a common operating picture - Continue developing shared visualization of multiple sources: automated & fused 2D/3D representation of air domain - Ingest, fuse, and analyze data from military, government, and commercial sources to multi-classification cloud environments - Continue to develop automated and operator-selectable tasking of assets, voice, data and C2 - Continue integrating new and existing development teams with ABMS Software Integrator to create a micro-services Cloud-Based C2 system for N&NC that is fully government owned - Continue building micro-services based software applications that will enable Cloud-Based C2 - Continue efforts to design and build infrastructure pieces to support Cloud-Based C2 to include but not limited to: platform, cloud, cloud outposts, data transport, tactical data bus, identity management, zero trust network, cyber defense and data storage solutions - Continue Quarterly minimum viable product (MVP) releases, iteratively building out the Cloud-Based C2 application/software baseline, targeting minimum viable capability release (MVCR) to N&NC by the end of FY23. - The Cloud-Based C2 application/software baseline is the starting point of Air Combat Command's (ACC) Common Battle-management Interface (CBI), which is the foundation of ACC's Battle Management Command & Control (BMC2) Roadmap. <p>FY 2022 to FY 2023 Increase/Decrease Statement: An increased focus on Operational Analysis and Capability Needs Statements to focus requirements, coupled with applying cloud-based C2 solutions to multiple Combatant Commands (COCOMs), and a Non-Advocate Cost Assessment (NACA) by the Air Force Cost Analysis Agency (AFCAA) on Capability Release #1, the costs for Digital Infrastructure and Capability Releases increase from FY22 to FY23.</p>				
<p>Title: Digital Architecture, Standards, and Concepts</p> <p>Description: In FY22, these activities were realigned to Program Element 0604006F. This line of effort develops and continually advances the integrated U.S. Air Force and U.S. Space Force digital architecture in order to enable current and future platforms and systems to operate as an ecosystem, or family of capabilities, in concert with the other Services, the Intelligence Community, and our allies and partners - as one joint and combined team. Open architectures coupled with open standards and a digital engineering ecosystem is critical to all Department of the Air Force programs because they provide the foundation for agility and adaptability over time as well as enabling the modular approach to development and integration across a family of systems. This activity also evaluates the technical and operational feasibility of new technical concepts that may be brought into the architecture through the science, technology, research, and development and experimentation enterprise. Finally, this effort creates and manages the family-of-systems trade space lying between traditional requirements and acquisition roles, turning warfighter requirements into potential integrated architecture level designs "horizontally" across all Program Executive Office "vertically" managed portfolios.</p>		28.300	0.000	0.000

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>FY 2022 Plans: • N/A</p> <p>FY 2023 Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: N/A</p>				
<p>Title: Architecture Experimentation and Evaluation</p> <p>Description: In FY22, these activities were realigned to Program Element 0604006F. The Department of Defense needs an agile approach to capability development, integration, and delivery that is both rapid and continuous. Therefore, the program also develops the digital architecture for the Air Force and Space Force via regularly recurring Department of the Air Force Architecture Demonstration and Evaluation events alongside other Services in partnership with one or more operational Commanders. This engine of architecture demonstration and integration affords the opportunity for commanders and operators to shape Minimum Viable capabilities and requirements for operational use. These evaluations and warfighter feedback shape subsequent Department of the Air Force wide architecture activities. The necessity to conduct test and analysis at the architecture level and the speed required by the operational needs require enhanced approaches to traditional test and analysis capabilities, namely new, innovative and sufficiently resourced test and analysis infrastructure, networks, and core subject matter expertise to include employment of military, civilian, reserve, and contractor capabilities.</p> <p>FY 2022 Plans: N/A</p> <p>FY 2023 Plans: N/A</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: N/A</p>		35.500	0.000	0.000
Accomplishments/Planned Programs Subtotals		152.691	268.849	231.408
D. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				

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E. Acquisition Strategy

ABMS will build to a portfolio of acquisition efforts and should not be viewed as a monolithic program. The first acquisition effort is an ACAT II, Capability Release #1 (CR #1). The Department of the Air Force Rapid Capabilities Office (DAF RCO) matured the CR #1 (Airborne Edge Node) Acquisition Strategy and it was approved by the Service Acquisition Executive (SAE) on 15 Jun 21. Digital Infrastructure, the second ABMS acquisition strategy, was approved by the SAE in Nov 21.

The ABMS agile acquisition strategy and development approach is modeled after the path of commercial innovation and internet of things technology practices. The acquisition strategy breaks capabilities - that might traditionally be developed as a monolith in the government - up into modular components and then integrates them through open standards and an open architecture. Modularity and openness enable increased competition and continuous innovation, as well as more rapid upgrade of product capabilities. Software development and hardware development can both follow this path—a proven, successful model that is employed in the commercial world as well as in agile government entities.

The iterative nature of technology and speed of technical obsolescence in the 21st century digital age mandate an agile approach to capability development, integration, and delivery that is both rapid and continuous. The DAF RCO will make targeted investments in select areas and technologies to expedite the delivery of warfighter capability and close operational gaps.

To enable the speed and agility required by this acquisition strategy, the ABMS acquisition efforts have developed a contracting strategy that is agile. Though the program employs the full range of contracting authorities, ABMS has established the following three primary Broad Agency Announcements: (1) JADC2 Multi-Award, Multi-Level Security (MA-MLS) Indefinite Delivery/Indefinite Quantity (ID/IQ) vehicle; (2) Open Call, and (3) a Cooperative Research and Development Agreement (CRADA); and (4) already existing contract vehicles where ABMS acquisition efforts are within scope. More information about these calls may be found on <https://beta.sam.gov>.

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

Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604003F / <i>Advanced Battle Management System (ABMS)</i>	Project (Number/Name) 640141 / <i>Advanced Battle Management System (ABMS)</i>
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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			
DAF RCO - Digital Infrastructure	Various	DAF RCO: Various : TBD	-	21.591	Jun 2021	107.549	Jun 2022	86.608	Jun 2023	-		86.608	Continuing	Continuing	-
DAF RCO - Capability Releases	Various	DAF RCO: Various : TBD	-	67.300	Nov 2020	161.300	Jun 2022	144.800	Jun 2023	-		144.800	Continuing	Continuing	-
CAO - Digital Architectures, Standards, and Concepts Development	Various	Prior to RCO transition : TBD	-	28.300	Oct 2020	-		-		-		-	0.000	28.300	-
Subtotal			-	117.191		268.849		231.408		-		231.408	Continuing	Continuing	N/A

Test and Evaluation (\$ 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			
CAO - DAF Architecture Experimentation & Evaluation	Various	Prior to RCO transition : TBD	-	35.500	Oct 2020	-		-		-		-	0.000	35.500	-
Subtotal			-	35.500		-		-		-		-	0.000	35.500	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			-	152.691	268.849	231.408	-	231.408	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

ABMS	
Digital Infrastructure (DAF RCO)	
Capability Releases (DAF RCO)	
FY21 Prior to RCO Transition	
Digital Architecture, Standards, and Concepts (CAO)	
Experimentation & Evaluation #4 (CAO)	
Experimentation & Evaluation #5 (CAO)	

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Air Force		Date: April 2022
Appropriation/Budget Activity 3600 / 4	R-1 Program Element (Number/Name) PE 0604003F / <i>Advanced Battle Management System (ABMS)</i>	Project (Number/Name) 640141 / <i>Advanced Battle Management System (ABMS)</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
ABMS				
Digital Infrastructure (DAF RCO)	1	2021	4	2027
Capability Releases (DAF RCO)	1	2021	4	2027
FY21 Prior to RCO Transition				
Digital Architecture, Standards, and Concepts (CAO)	1	2021	4	2021
Experimentation & Evaluation #4 (CAO)	2	2021	2	2021
Experimentation & Evaluation #5 (CAO)	4	2021	4	2021