Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*					R-1 Program Element (Number/Name) PE 0604805A *I Command, Control, Communications Systems - Eng Dev*							
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	-	43.533	34.214	92.300	-	92.300	41.776	41.116	40.489	40.826	0.000	334.254
593: *Joint Battle Command - Platform (JBC-P)*	-	43.533	34.214	33.114	-	33.114	33.128	33.470	33.845	34.182	0.000	245.486
DH4: *CMOSS Mounted Form Factor (CMFF) Radio Cards*	-	-	-	21.802	-	21.802	-	-	-	-	0.000	21.802
DH5: *CMOSS Mounted Form Factor (CMFF) Chassis*	-	-	-	37.384	-	37.384	8.648	7.646	6.644	6.644	0.000	66.966

Note

Project Code DH4 CMOSS Mounted Form Factor (CMFF) Radio Cards and Project Code DH5 CMOSS Mounted Form Factor (CMFF) Chassis are new starts in FY 2025 within PE PE 0604805A Command, Control, Communications Systems - Eng Dev.

A. Mission Description and Budget Item Justification

Project 593, Joint Battle Command - Platform (JBC-P) funds the Mounted Mission Command (MMC) Family of Systems (FoS) and provides:
- Interoperable data, message, and waveforms
- Integration with Joint Command, Control, Communications, Computers, Combat Systems, Intelligence, Surveillance, and Reconnaissance (C5ISR) and strike capabilities
- Sensors and applications that enable operations across domains
- Critical Interoperability features that bridge the communications gap between the Command Post Computing Environment and Mobile/ Handheld Computing Environment (Nett Warrior)
- Data mediation, message format translation, and waveform exchanges across all computing environments (CEs) delivering improved information dissemination
- Mounted Common Operating Picture data sources, shared blue / red situational awareness, and Position / Location Information across the CEs
- Common, reusable services that enable Warfighting Function (WfF) convergence for rapid capability development and delivery with reduced costs for external programs
- Mounted platform data sensor collection, processing, and disbursement applications that enable and enhance WfFs on the battlefield
- Foundational cross-cutting capabilities that integrate with Joint C5ISR and strike capabilities

The MMC FoS programs are the cornerstone of Joint Forces command and control situational awareness and communications that provides soldiers and commanders a near real-time map-based view of the battlefield, reducing fratricide and populating the Tactical Common Operating Picture. The MMC FoS addresses the Blue Force Tracking (BFT-3) effort under the MMC-Transport (MMC-T) program and the next generation software development under the MMC-Software (MMC-S) program.

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Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604805A *I Command, Control, Communications Systems - Eng Dev*

The MMC-T program provides the BFT-3 capabilities, including electronic warfare (EW), cyber resiliency, and multiple network paths (Geosynchronous Equatorial Orbit (GEO), Low-Earth Orbit (LEO), Line of Sight (LoS), and Beyond LoS) using a modular open systems approach by developing the next generation BFT-3 transceiver and NSA certified encryption device leveraging the MMC-S Smart-Routing capability. MMC-T will introduce anti-jam and resilient waveforms as well as multiple (SATCOM and LoS) communications paths leveraging MMC-S Smart-Routing capability. MMC-T is developed using an agile and flexible contracting approach to promote competition using common standards.

The MMC-S program provides next generation software that facilitates convergence of WfF applications into the Mounted Computing Environment (MCE) infrastructure, as well as developing smart routing that will use the BFT-3 network and leverage other tactical and commercial networks. MMC-S utilizes the Tactical Assault Kit (TAK) government owned application allowing convergence of WfF applications, as well as agile development and deployment.

Project DH4, Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance and Reconnaissance (C5ISR) Modular Open Suite of Standards (CMOSS) Mounted Form Factor (CMFF) delivers Software Defined Radio (SDR) cards, Cryptographic Subsystem (CSS) cards, and Digital Radio Heads (DRH) required by the CMOSS Mounted Form Factor (CMFF) Abbreviated Capability Development Document (A-CDD) for the Ground and Aviation's tactical communication requirements. CMFF provides simultaneous transmission and reception of multiple waveforms across multiple channels in a single or multiple SDR card(s) integrated in the CMFF chassis with NSA certifiable CSS and interoperable with the Digital Radio Head. CMFF will introduce a Blocking Strategy roadmap. Block 1 starts with TSM and future blocks will build upon Block 1; Block 2 adds Single Channel Ground and Airborne Radio System (SINCGARS), Air Traffic Control (ATC), Warrior Robust Enhanced Network Tactical Scalable MANET (WREN TSM), initial Cryptographic Subsystem Card (CSS), and Digital Radio Head (DRH); Block 3 adds Mobile User Objective System (MUOS), Link-16, Second generation Anti-jam Tactical UHF Radio for NATO (SATURN), Demand Assigned Multiple Access (DAMA) and final CSS and DRH.

Project DH5, CMFF Chassis funds Mounted Common Infrastructure (MCI) Chassis development, integration of circuit card assemblies (CCAs) into the chassis, testing and integration of the system solution into target platforms. CMOSS is a defined suite of open architecture and Army standards that facilitate the reduction of system size, weight, and power-cooling (SWaP-C) and ensure commonality across multiple platforms. Sharing of hardware and software components is enabled within the MCI Chassis. CMFF will help move the implementation of C5ISR/Electronic Warfare (EW)) capabilities away from costly and complex separate "stove-piped boxes" on individual platforms. The use of open standards will make it simpler and more cost-effective to upgrade capabilities or keep pace with commercial technology by eliminating complex integration challenges, lack of competition, and proprietary interfaces. The CMFF capability can only be realized when paired with the development of associated CCA for integration into the chassis and peripheral enabling devices, such as antennae and appropriate user interfaces. Other programs are responsible for funding and developing the CCAs and peripheral devices; the CMFF MCI Chassis program is responsible for chassis development, system of system integration of the CCAs and external resources into the chassis and platform integration.

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army	Date: March 2024
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604805A *I Command, Control, Communications Systems - Eng Dev*

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	44.993	34.214	33.899	-	33.899
Current President's Budget	43.533	34.214	92.300	-	92.300
Total Adjustments	-1.460	0.000	58.401	-	58.401
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.460	-			
• Adjustments to Budget Years	-	-	58.401	-	58.401

Change Summary Explanation

Funding increased in FY2025 due to the addition of two new starts (project codes DH4 and DH5).

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	Project (Number/Name) 593 / *Joint Battle Command - Platform (JBC-P)*	

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
593: *Joint Battle Command - Platform (JBC-P)*	-	43.533	34.214	33.114	-	33.114	33.128	33.470	33.845	34.182	0.000	245.486
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

JBC-P/Mounted Mission Command (MMC) funding aligns to Network modernization priorities and supports Army 2030/2040 initiatives toward implementing multi- and joint all-domain operations in a dispersed battlefield. The MMC Family of Systems (FoS) will employ data centricity and contains hardened cyber/electronic warfare advancements that will improve data sharing and enhance command & control on-the-move (C2OTM) functionality, resulting in more reliable communications anytime, anywhere in all domains.

This Project supports the MMC FoS programs that are the cornerstone of Joint Forces command and control, situational awareness and communications that provides soldiers and commanders a near real-time map-based view of the battlefield, reducing fratricide and populating the Tactical Common Operating Picture. The MMC FoS addresses the Blue Force Tracking (BFT-3) effort under the MMC-Transport (MMC-T) program and the next generation software development under the MMC-Software (MMC-S) program.

The MMC-T program provides the BFT-3 capabilities, including electronic warfare (EW), cyber resiliency, and multiple network paths (Geosynchronous Equatorial Orbit (GEO), Low-Earth Orbit (LEO), Line of Sight (LoS), and Beyond LoS) using a modular open systems approach by developing the next generation BFT-3 transceiver and NSA certified encryption device leveraging the MMC-S Smart-Routing capability. MMC-T will introduce anti-jam and resilient waveforms, as well as multiple (SATCOM and LoS) communications paths leveraging MMC-S Smart-Routing capability. MMC-T is developed using an agile and flexible contracting approach to promote competition using common standards.

The MMC-S program provides next generation software that facilitates convergence of Warfighting Function (WfF) applications into the Mounted Computing Environment (MCE) infrastructure, as well as developing smart routing that will use the BFT-3 network and leverage other tactical and commercial networks. MMC-S utilizes the Tactical Assault Kit (TAK) government owned application allowing convergence of WfF applications, as well as agile development and deployment.

FY 2025 funding supports MMC-T development and systems engineering efforts to continue the transceiver and encryption device development. MMC-T development activities will include the integration of the BFT waveform and terrestrial radio line of sight waveform on the transceiver; integration of the transceiver and encryption device to each mounted platform; interoperability with the BFT Satellite Network Control Center (SNCC) and Satellite Ground Station (SGS); and test and evaluation events. Funding will also support initial BFT Aviation development activities.

FY 2025 funding supports the development of the vehicle-based MMC software application that provides the soldier with situational awareness of the battlefield and the capability to communicate via BFT. The funding allows for software development using the continuous integration/continuous delivery (CI/CD) approach and feedback

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	**Project (Number/Name)** 593 / *Joint Battle Command - Platform (JBC-P)*

from Army users through DevOps interactions. In addition, the funding provides for developmental testing, integration with Firing platforms, and the development of mission planning and logistics capabilities.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Software/Systems Engineering	34.172	22.815	22.944

Description: Perform Software/Systems Engineering needed to develop BFT-3 capabilities, applications and services, to include, but not limited to conducting engineering studies, architecture development (network and software), system analyses, technical readiness assessments, technical interchange/exchange meetings/events, and development of related reports and other deliverables.

Develop MMC-S that provides an integrated mission command capability across Platforms, through all echelons, delivering simplicity, intuitiveness, core services and applications, a common look and feel, and functionality across all Warfighting Functions (WfF), including Fires, Logistics, Intelligence, and Maneuver on the government owned Tactical Assault Kit (TAK) application via agile development and deployment. Software development is focused on enhanced situational awareness functions, cross-cutting data exchange services, and Mission Command applications displayed on the next-generation common geospatial solution [map] through a graphical user interface that delivers a "common look and feel" across the Computing Environment (CEs).

FY 2024 Plans:
Funds continue to support MMC-T software/systems engineering and development of the BFT-3 capability under the BFT-3 transceiver and encryption device development contracts. Efforts include the integration of the BFT modular waveform, that will enable competition by allowing third-party transceiver manufacturers to access and interoperate with the existing BFT network (including the BFT-2 SNCC and SGS); integration of a resilient line of sight waveform on a software defined radio; and integration of the transceiver and encryption devices to each mounted platform.

Funds complete development of MMC-S v3.2, focused on platform sensor and interface support as well as integration with the Fires WfF. Platform development will focus on supporting interfaces to the Stryker and Bradley platforms, including Remote Display, multi-user support, and sensor integration such as Long-Range Acquisition System (LRAS), Improved Target Acquisition System (ITAS), Fire-Support Sensor System (FS3), and Netted Lethality Upgrades. Fires capability will be integrated by converging the Precision Fires - Mounted (PF-M) for trained users and adding untrained observer fires capabilities for other users. MMC-S v3.2 development funding builds on the MMC-S v3.1 smart routing features by developing support for the MMC-T prototype transceiver and encryption device to provide network path diversity and PACE planning features. These funds also initiate development of MMC-S v3.3, which includes DEVOPS, completes integration with BFT-3, and aligns with Capability Set 27 priorities.

FY 2025 Plans:

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Funds continue MMC-T software/systems engineering and completes development of the BFT-3 capability under the BFT-3 transceiver and encryption device development contracts. Efforts include the integration of the BFT modular waveform, that will enable competition by allowing third-party transceiver manufacturers to access and interoperate with the existing BFT network (including the BFT SNCC and SGS); integration of a resilient line of sight waveform on a software defined radio; and integration of the transceiver and encryption devices to each mounted platform. Funding will also support initial BFT Aviation variant development activities. Funds continue to support MMC-S software/systems engineering and development utilizing a CI/CD approach with new capability development and convergence with third-party apps and WfF apps on a quarterly cadence. Platform development will focus on supporting platform sensor interfaces. Engineering efforts will complete integration with the MMC-T encryption device. Software development will include mission planning and logistics capabilities and support for commercial off the shelf computing (tablets, laptop devices). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Although the funding for Software/Systems Engineering remains relatively constant, MMC-T decrease due to the BFT-3 transceiver and encryption device design becoming more mature and nearing production. MMC-S increase due to the quarterly software releases of new capabilities and convergence of WfF under the CI/CD approach to increase capability for the soldier.			
Title: Test, Evaluation and Integration	5.882	7.833	6.515
Description: Test and evaluation (T&E) efforts consist of planning and execution of required test events for MMC-T to inform fielding decisions and MMC-S to inform software releases to ensure the safe delivery of capability to the Warfighter. T&E events include: Development Operations (DevOps), Developmental Tests (DT), Field Tests (FT), Soldier Touch Points (STPs), Software Assurance Tests, Capability Set Integration Events, Cyber Assessments, Risk Reduction Tests, and Capability Set Operational Demonstration, Army Interoperability Certification (AIC), Security Control Assessment-Validation, and Initial Operational Test and Evaluation (IOT&E). ***FY 2024 Plans:*** Funds support BFT network certification of the BFT-3 transceiver and NSA certification of the encryption device. Funds also support MMC-T T&E activities for a DT and a STP #2 (FT) in support of BFT-3 development as the program moves towards a production decision. Funds support MMC-S T&E activities for the required DT, AIC and OT events that support the MMC-S v3.2 Full Deployment Decision (FDD) planned for FY 2024. ***FY 2025 Plans:***			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	**Project (Number/Name)** 593 / *Joint Battle Command - Platform (JBC-P)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Funds support MMC-T T&E activities for multiple test events, as well as the transceiver and encryption device certification in support of BFT-3 development as the program moves towards a production decision, continuous risk reduction testing, and a STP in preparation for the initial operational test (IOT) in 2QFY26. Funds support MMC-S T&E activities including quarterly developmental tests, STPs and continuous interoperability testing in support of quarterly software releases. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Overall decrease, however, MMC-T requirements increased due to additional test and certification events. MMC-S requirements decrease due to a reduction in major MMC-S operational tests in line with the CI/CD approach.			
Title: PM Support (Matrix & Contractor) ***Description:*** Matrix and contractor support, including technical, logistics, and business staff oversight, for MMC-T and MMC-S. ***FY 2024 Plans:*** Funds continue to finance matrix and contractor personnel to support MMC-T and MMC-S development/systems engineering and provide technical, test expertise, and business oversight for BFT-3 transceiver and encryption device prototypes, and MMC-S software changes. Technical areas include SATCOM, Network, Intel, Cyber, Radio Frequency, Waveform and Transport. Additionally, this PM support includes system analyses of external programs systems and future systems for integration and convergence into the MCE infrastructure, technical readiness assessments and assistance with stakeholder technical exchange meetings and events. Business/program management efforts include funds execution, contract management and logistical support. Some of this work is secured via FSAs between the PM and various Government support agencies, such as the DEVCOM Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance and Reconnaissance (C5ISR) Center, and other PEOs (e.g. PEO STRI). ***FY 2025 Plans:*** Funds continue to finance matrix and contractor personnel to support MMC-T and MMC-S development/systems engineering and provide technical, test expertise, and business oversight for BFT-3 transceiver and encryption device prototypes, and MMC-S software changes. Technical areas include SATCOM, Network, Intel, Cyber, Radio Frequency, Waveform and Transport. Additionally, this PM support includes system analyses of external programs systems and future systems for integration and convergence into the MCE infrastructure, technical readiness assessments and assistance with stakeholder technical exchange meetings and events. Business/program management efforts include funds execution, contract management and logistical support. Some of this work is secured via FSAs between the PM and various Government support agencies, such as the	3.479	3.566	3.655

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
DEVCOM Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance and Reconnaissance (C5ISR) Center and other PEOs. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Minor increase due to planned FY 2025 activities and economic assumptions.			
Accomplishments/Planned Programs Subtotals	43.533	34.214	33.114

C. Other Program Funding Summary ($ in Millions)

Line Item	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
• W61990: *JOINT BATTLE COMMAND - PLATFORM (JBC-P)*	186.515	215.290	184.610	-	184.610	169.661	169.108	165.388	167.039	Continuing	Continuing

Remarks

Procurement funding (Base funding) is designated for the procurement, fielding, training and program management of JBC-P (through FY 2025) and the Mounted Mission Command (MMC) Family of Systems (FoS). JBC-P will achieve Full Operational Capability (FOC) by completing procurement in FY 2024 and fielding in FY 2025. MMC-T development efforts are underway to ensure the next generation transceiver and encryption device (BFT-3 hardware) are compatible as the MMC FoS replaces the JBC-P system. MMC-S to begin Platform Integration in FY 2025.

D. Acquisition Strategy

The JBC-P program achieved First Unit Equipped in FY 2015 in response to the JBC-P Capabilities Development Document in lieu of Capabilities Production Document (CDD ILO CPD), which was Joint Requirements Oversight Council (JROC) approved in March 2013. Using the CDD ILO CPD objective requirements, PdM JBC-P began Systems Engineering development in FY 2017 for the program's next generation Blue Force Tracking (BFT) Open Systems Architecture Developmental and systems engineering efforts, which were performed through intra-government collaboration with C5ISR's Research and Technology Integration Directorate (RTI) and the Engineering and Systems Integration Directorate (ESI).

At this same time, PdM JBC-P was overseeing development for the Mounted Computing Environment (MCE), which is one of six computing environments in the Common Operating Environment (COE). MCE is the Army's initiative to provide simple and intuitive Mission Command on-the-Move and situational awareness down to the platoon level. It is standards based, protected, and supports incremental improvements and Warfighting Function application capability enhancements.

Modernization of the JBC-P capability will be accomplished via a MMC Family of Systems (FoS) approach to maximize development flexibility and supports incremental JBC-P capability improvements over time. The MMC FoS addresses the BFT-3 effort under the MMC Transport (MMC-T) program and the next generation software development (previously conducted under the MCE funding line) under the MMC Software (MMC-S) program; planning is underway for future FoS program to address compute and store requirements. This structure capitalizes on work completed to date to utilize and respond to technological advances to provide cutting-edge capabilities to the Warfighters and out-pace the obsolescence curve.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
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MMC-T is based on the objective requirements in the JBC-P CDD ILO CPD, the MCE Requirements Definition Package (RDP), and the Mounted Mission Command-Hardware & Transport (MMC HW&T) Abbreviated CDD. This program will offer a transport agnostic Modular Open System Approach (MOSA) compliant, resilient, multi-band, multi-path capability that enables Commanders' the ability to perform Mission Command on the Move against near-peer adversaries during Multi Domain Operations in cyber- and electronic warfare-denied environments.

The MMC-T Materiel Development Decision (MDD) Acquisition Decision Memorandum (ADM) signed in September 2021, designated MMC-T an Acquisition Category II program. The life cycle entry point will be identified based on system maturity and MMC-T CDD status. MMC-T utilizes an approved evolutionary acquisition approach punctuated by prototype development of the BFT-3 transceivers and encryption devices, as well as modular waveforms, which will be subjected to Developmental/ Operations (DevOps) and Soldier Touch Points (STPs) to inform a MMC-T CDD.

In response to the COE Information System-Initial Capability Document and the MCE RDP (both approved in October 2018), PdM JBC-P established the MMC-S program to develop the next generation JBC-P software and the MCE infrastructure to facilitate convergence of external programs and third-party applications into the MCE. MMC-S provides a common user experience that enables leaders to lead and fight their formations from anywhere on the battlefield. MMC-S serves as the data mediator between disparate computing environments (CEs), including the Command Post Computing Environment and the Mobile/Handheld Computing Environment (Nett Warrior), enabling seamless Mission Command and Common Operating Picture generation across all three CEs.

The MMC-S MDD ADM signed in June 2020 designated MMC-S an Acquisition Category II program and approved entry into the acquisition life cycle at the Full Deployment Decision (FDD) for MMC-S v3.1 in FY 2023. The original MMC-S strategy called for an Incremental development approach to meeting the requirements. In FY 2024, MMC-S transitioned to a continuous improvement construct with no further increments. MMC-S utilizes an agile continuous integration/continuous delivery (CI/CD) CI/CD approach, leveraging DevOps, to ensure capability is delivered quickly, satisfies requirements, and addresses Warfighter feedback through quarterly software releases. This development process injects enhancements into the baseline software, making it easier and faster to incorporate technological advances. The product office conducts commercial software assessments to determine applicability and suitability for inclusion in the MCE.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
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Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
BFT-3 (MMC-T) Software/ Systems Engineering	C/FFP	GDMS/L3Harris : Multiple	95.258	17.808	Nov 2022	11.343	Nov 2023	8.249	Nov 2024	-		8.249	Continuing	Continuing	-
MCE (MMC-S) Software/ Systems Engineering	IA	Multiple (Government and industry) : Multiple	-	16.364	Nov 2022	11.472	Nov 2023	14.695	Nov 2024	-		14.695	Continuing	Continuing	-
		Subtotal	95.258	34.172		22.815		22.944		-		22.944	Continuing	Continuing	N/A

Remarks

Although the funding for Software/Systems Engineering remains relatively constant, MMC-T decrease due to the BFT-3 transceiver and encryption device design becoming more mature and nearing production. MMC-S increase due to the quarterly software releases of new capabilities and convergence of WfF under the CI/CD approach to increase capability for the soldier.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
PM Support (Matrix / SETA Contractor)	MIPR	PdM MMC : Aberdeen Proving Ground (APG), MD	13.860	3.479	Nov 2022	3.566	Nov 2023	3.655	Nov 2024	-		3.655	Continuing	Continuing	-
		Subtotal	13.860	3.479		3.566		3.655		-		3.655	Continuing	Continuing	N/A

Remarks

Minor increase due to planned FY 2025 activities and economic assumptions.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
BFT-3 (MMC-T) Develop and Conduct Tests and Assessments	MIPR	Multiple : Multiple	30.923	0.966	Oct 2022	2.844	Nov 2023	5.308	Nov 2024	-		5.308	Continuing	Continuing	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
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Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
MCE (MMC-S) Develop and Conduct Tests and Assessments	MIPR	Multiple : Multiple	-	4.916	Nov 2022	4.989	Nov 2023	1.207	Nov 2024	-		1.207	Continuing	Continuing	-
		Subtotal	30.923	5.882		7.833		6.515		-		6.515	Continuing	Continuing	N/A

Remarks

Overall decrease, however, MMC-T requirements increased due to additional test and certification events. MMC-S requirements decrease due to a reduction in major MMC-S operational tests in line with the CI/CD approach.

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	140.041	43.533		34.214		33.114		-		33.114	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	**Project (Number/Name)** 593 / *Joint Battle Command - Platform (JBC-P)*

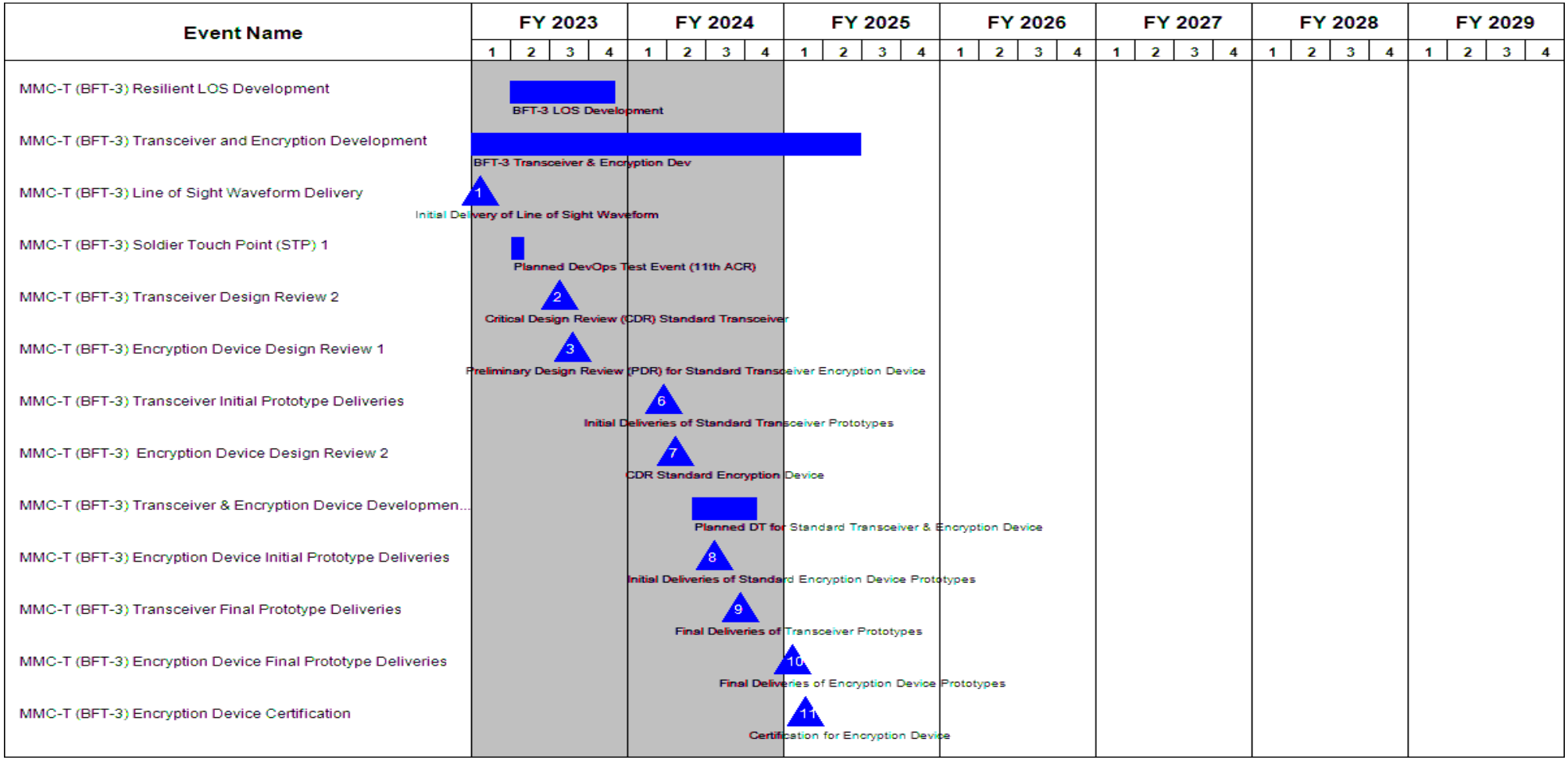

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	**Project (Number/Name)** 593 / *Joint Battle Command - Platform (JBC-P)*

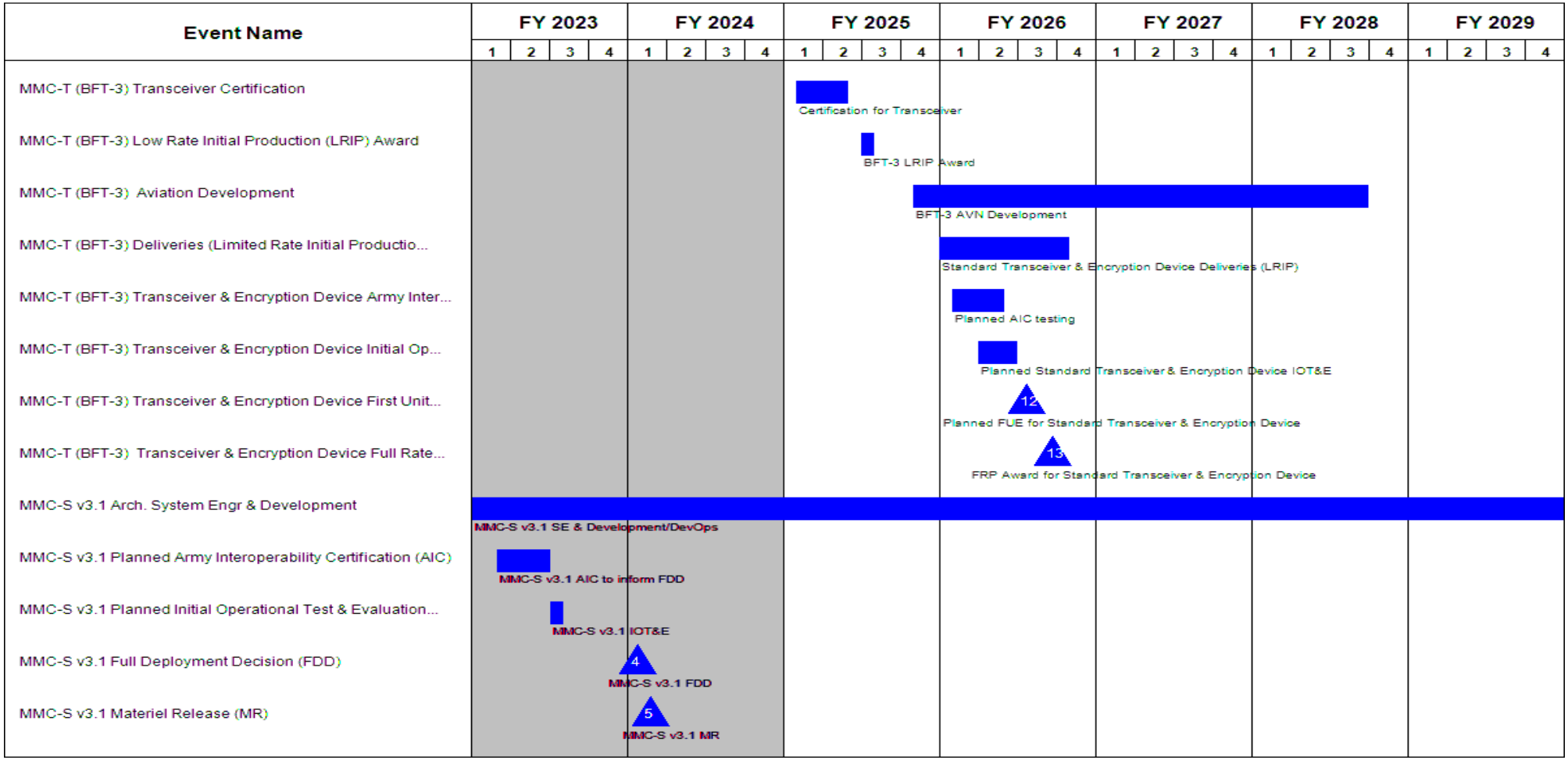

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	**Project (Number/Name)** 593 / *Joint Battle Command - Platform (JBC-P)*

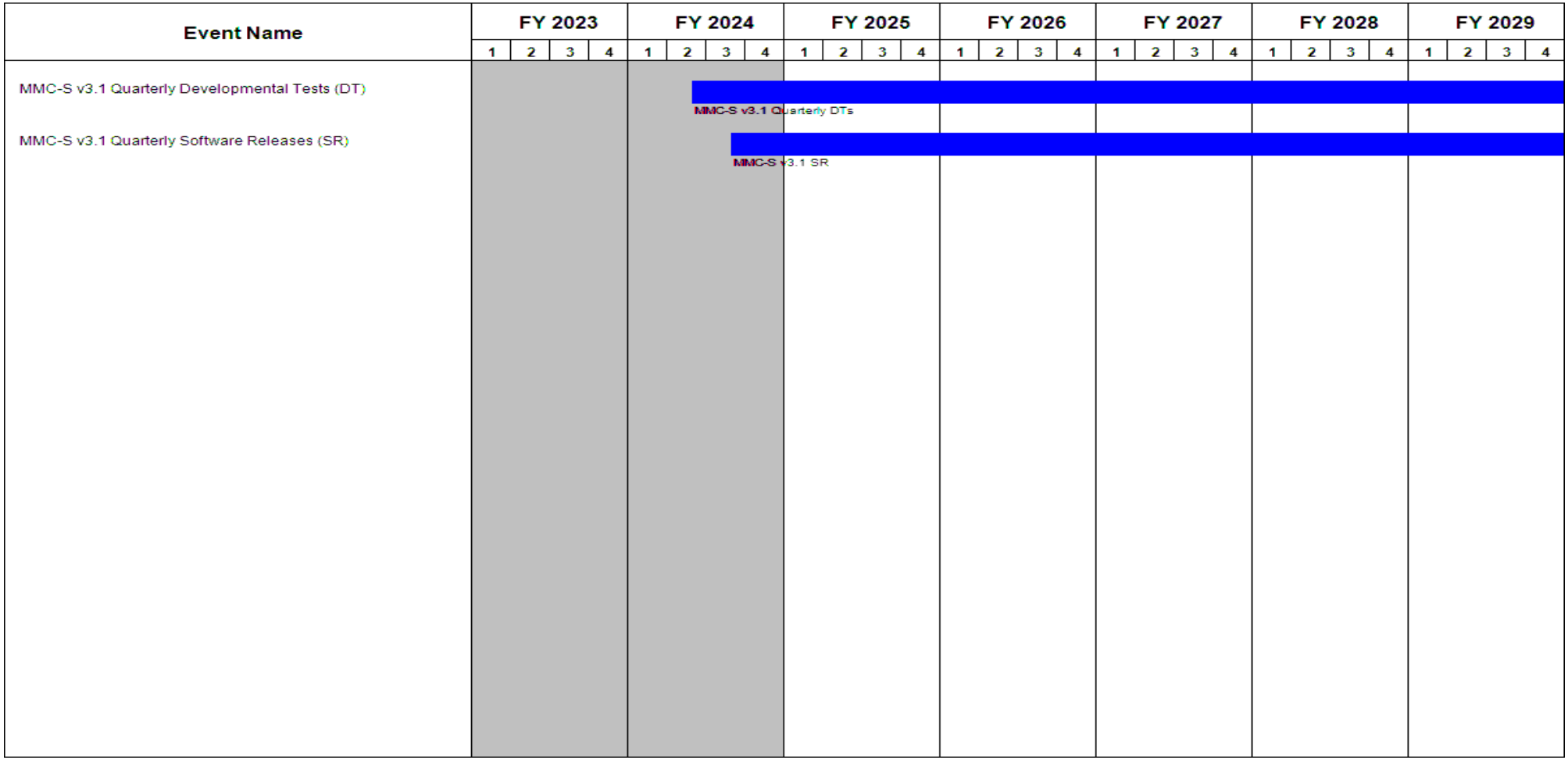

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	**Project (Number/Name)** 593 / *Joint Battle Command - Platform (JBC-P)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
MMC-T (BFT-3) Systems Engineering Development and Consortium	2	2017	4	2021
MMC-T (BFT-3) Developmental Testing (C5ISR Lab based)	1	2021	4	2021
MMC-T (BFT-3) Resilient Line of Sight (LOS) Contract Award	1	2022	1	2022
MMC-T (BFT-3) Resilient LOS Development	1	2022	4	2023
MMC-T (BFT-3) Transceiver Request for Prototype Proposal (RPP)	2	2022	2	2022
MMC-T (BFT-3) Encryption Device RPP	2	2022	2	2022
MMC-T (BFT-3) Transceiver & Encryption Device Contract Awards	3	2022	4	2022
MMC-T (BFT-3) Transceiver and Encryption Development	3	2022	2	2025
MMC-T (BFT-3) Transceiver & Encryption Developmental Testing (C5ISR Lab based) 2	3	2022	4	2022
MMC-T (BFT-3) Transceiver Design Review 1	4	2022	4	2022
MMC-T (BFT-3) Line of Sight Waveform Delivery	1	2023	1	2023
MMC-T (BFT-3) Soldier Touch Point (STP) 1	2	2023	2	2023
MMC-T (BFT-3) Transceiver Design Review 2	3	2023	3	2023
MMC-T (BFT-3) Encryption Device Design Review 1	3	2023	3	2023
MMC-T (BFT-3) Transceiver Initial Prototype Deliveries	1	2024	1	2024
MMC-T (BFT-3) Encryption Device Design Review 2	2	2024	2	2024
MMC-T (BFT-3) Transceiver & Encryption Device Developmental Test (DT)	2	2024	4	2024
MMC-T (BFT-3) Encryption Device Initial Prototype Deliveries	3	2024	3	2024
MMC-T (BFT-3) Transceiver Final Prototype Deliveries	3	2024	3	2024
MMC-T (BFT-3) Encryption Device Final Prototype Deliveries	1	2025	1	2025
MMC-T (BFT-3) Encryption Device Certification	1	2025	1	2025
MMC-T (BFT-3) Transceiver Certification	1	2025	2	2025

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	**Project (Number/Name)** 593 / *Joint Battle Command - Platform (JBC-P)*

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
MMC-T (BFT-3) Low Rate Initial Production (LRIP) Award	3	2025	3	2025
MMC-T (BFT-3) Aviation Development	4	2025	3	2028
MMC-T (BFT-3) Deliveries (Limited Rate Initial Production (LRIP))	1	2026	4	2026
MMC-T (BFT-3) Transceiver & Encryption Device Army Interoperability Cert (AIC)	1	2026	2	2026
MMC-T (BFT-3) Transceiver & Encryption Device Initial Operational Test & Eval	2	2026	2	2026
MMC-T (BFT-3) Transceiver & Encryption Device First Unit Equipped (FUE)	3	2026	3	2026
MMC-T (BFT-3) Transceiver & Encryption Device Full Rate Production (FRP) Award	3	2026	3	2026
MMC-S v3.1 Arch. System Engr & Development	1	2021	4	2029
MMC-S v3.1 Planned Army Interoperability Certification (AIC)	1	2023	2	2023
MMC-S v3.1 Planned Initial Operational Test & Evaluation (IOT&E)	3	2023	3	2023
MMC-S v3.1 Full Deployment Decision (FDD)	1	2024	1	2024
MMC-S v3.1 Materiel Release (MR)	1	2024	1	2024
MMC-S v3.1 Quarterly Developmental Tests (DT)	2	2024	4	2029
MMC-S v3.1 Quarterly Software Releases (SR)	3	2024	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army											Date: March 2024	
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604805A / *Command, Control, Communications Systems - Eng Dev*				Project (Number/Name) DH4 / *CMOSS Mounted Form Factor (CMFF) Radio Cards*			
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**
DH4: *CMOSS Mounted Form Factor (CMFF) Radio Cards*	-	-	-	21.802	-	21.802	-	-	-	-	0.000	21.802
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

CMOSS Mounted Form Factor (CMFF) Radio Cards is a new start within the Command, Control, Communications Systems - Eng Dev program in FY 2025.

A. Mission Description and Budget Item Justification

Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance and Reconnaissance (C5ISR) Modular Open Suite of Standards (CMOSS) Mounted Form Factor (CMFF) delivers Software Defined Radio (SDR) cards, Cryptographic Subsystem (CSS) cards, and Digital Radio Heads (DRH) required by the CMOSS Mounted Form Factor (CMFF) Abbreviated Capability Development Document (A-CDD) for the Ground and Aviation's tactical communication requirements. CMFF provides simultaneous transmission and reception of multiple waveforms across multiple channels in a single or multiple SDR card(s) integrated in the CMFF chassis with NSA certifiable CSS and interoperable with the Digital Radio Head. CMFF will introduce a Blocking Strategy roadmap. Block 1 starts with TSM and future blocks will build upon Block 1; Block 2 adds Single Channel Ground and Airborne Radio System (SINCGARS), Air Traffic Control (ATC), Warrior Robust Enhanced Network Tactical Scalable MANET (WREN TSM), initial Cryptographic Subsystem Card (CSS), and Digital Radio Head (DRH); Block 3 adds Mobile User Objective System (MUOS), Link-16, Second generation Anti-jam Tactical UHF Radio for NATO (SATURN), Demand Assigned Multiple Access (DAMA) and final CSS and DRH.

FY 2025 funds in the amount of $21.802 million supports Program Management Support (Matrix and SETA), Hardware and Software Development (SDR card, CSS card and Digital Radiohead), and Test and Evaluation (Crypto MOD and PIF).

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: Program Management Support	-	-	1.909
Description: This funds matrixed support from Combat Capabilities Development Command (CCDC) Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance and Reconnaissance (C5ISR) Center to assist with the CMFF development effort.			
FY 2025 Plans: FY 2025 Research Development Test & Evaluation (RDT&E) funds Matrix Systems Engineering support from the Combat Capabilities Development Command (CCDC) Command, Control, Computers, Communications, Cyber, Intelligence, Surveillance and Reconnaissance (C5ISR) Center to assist with the CMFF development effort.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	**Project (Number/Name)** DH4 / *CMOSS Mounted Form Factor (CMFF) Radio Cards*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Increase from FY24 to FY25 is due to new start/first year of funding.			
Title: Product Development ***Description:*** Funds hardware and software development CMFF radio cards, cryptographic subsystem (CSS) cards, and digital radio head. ***FY 2025 Plans:*** FY 2025 Research Development Test & Evaluation (RDT&E) funding will provide technical systems engineering support for Block 2 ground Hardware & Software development of the SDR card, CSS card, and Digital Radiohead. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase from FY24 to FY25 is due to new start/first year of funding.	-	-	19.628
Title: Test and Evaluation ***Description:*** CMFF's Test and Evaluation focuses on Hardware and Software development of the Software Defined Radio (SDR) cards, Cryptographic Subsystem cards (CSS), and digital radioheads (DRH) in support of ground tactical communications requirements. ***FY 2025 Plans:*** FY 2025 Research Development Test & Evaluation (RDT&E) funding supports CMFF Block 2 integration, testing, and evaluation of the Software Defined Radio (SDR) cards, Cryptographic Subsystem (CSS) cards, Digital Radio Heads and support from the Crypto Mod lab, Open Innovation Lab (OIL), and Prototype Integration Facility (PIF). ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Increase from FY24 to FY25 is due to new start/first year of funding.	-	-	0.265
Accomplishments/Planned Programs Subtotals	-	-	21.802

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Combined Middle-tier acquisition (MTA) - Rapid Prototyping (RP)

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	Project (Number/Name) DH4 / *CMOSS Mounted Form Factor (CMFF) Radio Cards*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Managment Support	TBD	TBD : TBD	-	-		-		1.909		-		1.909	0.000	1.909	-
		Subtotal	-	-		-		1.909		-		1.909	0.000	1.909	N/A

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Hardware Development	TBD	TBD : TBD	-	-		-		11.038		-		11.038	0.000	11.038	-
Software Development	TBD	TBD : TBD	-	-		-		8.590		-		8.590	0.000	8.590	-
		Subtotal	-	-		-		19.628		-		19.628	0.000	19.628	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation - Crypto Mod and PIF	TBD	TBD : TBD	-	-		-		0.265		-		0.265	0.000	0.265	-
		Subtotal	-	-		-		0.265		-		0.265	0.000	0.265	N/A

	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		-		21.802		-		21.802	0.000	21.802	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	**Project (Number/Name)** DH4 / *CMOSS Mounted Form Factor (CMFF) Radio Cards*

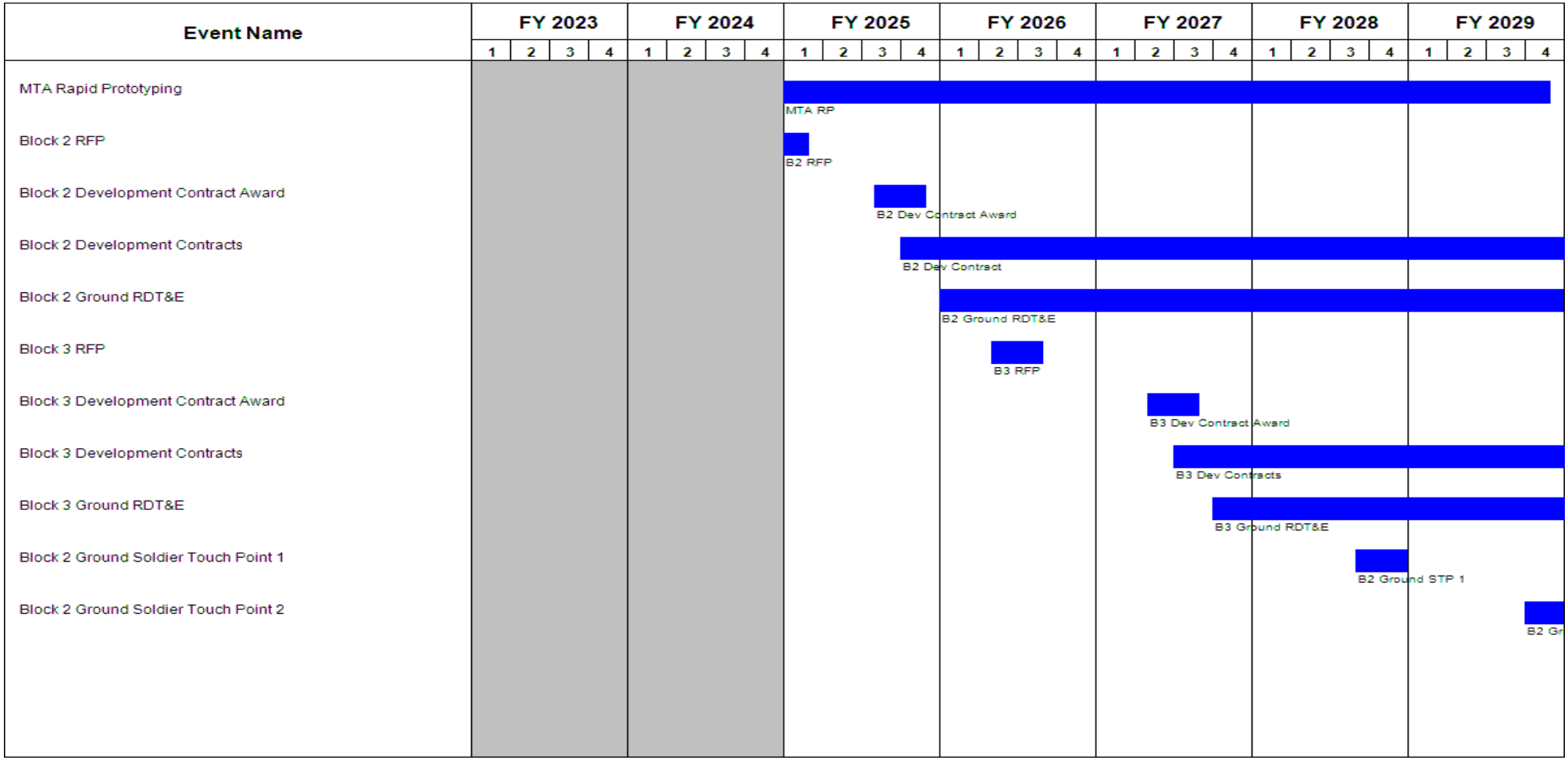

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	**Project (Number/Name)** DH4 / *CMOSS Mounted Form Factor (CMFF) Radio Cards*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
MTA Rapid Prototyping	1	2025	4	2029
Block 2 RFP	1	2025	1	2025
Block 2 Development Contract Award	3	2025	4	2025
Block 2 Development Contracts	4	2025	1	2030
Block 2 Ground RDT&E	1	2026	4	2029
Block 3 RFP	2	2026	3	2026
Block 3 Development Contract Award	2	2027	3	2027
Block 3 Development Contracts	3	2027	1	2032
Block 3 Ground RDT&E	4	2027	4	2031
Block 2 Ground Soldier Touch Point 1	3	2028	4	2028
Block 2 Ground Soldier Touch Point 2	4	2029	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	Project (Number/Name) DH5 / *CMOSS Mounted Form Factor (CMFF) Chassis*	

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
DH5: *CMOSS Mounted Form Factor (CMFF) Chassis*	-	-	-	37.384	-	37.384	8.648	7.646	6.644	6.644	0.000	66.966
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

CMOSS Mounted Form Factor (CMFF) Chassis is a new start within the Command, Control, Communications Systems - Eng Dev program in FY 2025.

A. Mission Description and Budget Item Justification

Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance and Reconnaissance (C5ISR) Modular Open Suite of Standards (CMOSS) is a defined suite of open architecture and Army standards that facilitate the reduction of system size, weight, and power-cooling (SWaP-C) and ensure commonality across multiple vehicles and platforms. Sharing of hardware and software components is enabled within the CMFF Mounted Common Infrastructure (MCI) Chassis. CMFF will help move the implementation of C5ISR/Electronic Warfare (C5ISR/EW) capabilities away from costly and complex separate "stove-piped boxes" on individual platforms. The use of open standards will make it simpler and more cost-effective to upgrade capabilities and/or keep pace with commercial technology by eliminating complex integration challenges and proprietary interfaces. The CMFF capability can only be realized when paired with the development of associated circuit cards assemblies (CCA) for integration into the chassis and peripheral enabling devices, such as antennae and appropriate user interfaces. Other programs are responsible for funding and developing the CCAs and peripheral devices; the CMFF MCI Chassis program is responsible for chassis development, system of system integration of CCAs and external resources into the chassis and platform integration.

FY 2025 funding in the amount of $37.384 million will provide for CMFF MCI Chassis hardware and software development, vehicle and platform integration and prototype manufacturing for the chassis.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
Title: CMFF - Product Development	-	-	33.274
Description: Hardware and software development and prototype manufacturing of the CMFF Mounted Common Infrastructure (MCI) Chassis, system of system integration of payloads and external resources, platform integration and final product development for ground and aviation platforms.			
FY 2025 Plans: Funding supports a multi-vendor OTA award, including prototyping, hardware and software development, and lab-asset procurement for experimentation on ground platforms and technical studies and maturation on aviation platforms.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	**Project (Number/Name)** DH5 / *CMOSS Mounted Form Factor (CMFF) Chassis*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024	FY 2025
CMFF is a new start program in FY 2025.			
Title: CMFF - Test and Evaluation ***Description:*** Test, evaluation and assessment activities for the CMFF MCI Chassis to support prototyping, development and procurement. ***FY 2025 Plans:*** Funding supports the kickoff of National Security Agency (NSA) evaluation and the initiation of environmental and safety testing activities for CMFF MCI Chassis Block 1. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** CMFF is a new start program in FY 2025.	-	-	0.379
Title: CMFF - Program Management Support ***Description:*** Matrix and Contractor Personnel Support, including technical, logistics, and business staff that provide expertise and support for CMFF MCI Chassis program activities. ***FY 2025 Plans:*** Funding provides the development, systems engineering, technical and business Matrix and Contractor personnel to support the CMFF MCI Chassis program efforts. ***FY 2024 to FY 2025 Increase/Decrease Statement:*** CMFF is a new start program in FY 2025.	-	-	3.731
Accomplishments/Planned Programs Subtotals	-	-	37.384

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The CMOSS Mounted Form Factor (CMFF) Mounted Common Infrastructure (MCI) Chassis program responds to Army requirements in the approved CMFF Abbreviated Capability Development Document (A-CDD), validated on 4 January 2021. A new start in FY 2025, the program will seek Middle Tier of Acquisition (MTA) Rapid Prototyping (RP) program initiation in 1QFY2025. The MTA RP effort spans the initial five years of the program and will prototype the chassis and software that manages the operation of the chassis, as well as integrate the circuit cards assemblies (CCA) that hold the payload capabilities and assure the integrated solution operates as required. (The CCAs host communications, situational awareness, and positioning, navigating, and timing (PNT) capabilities that will be provided by external programs).

Exhibit R-2A, RDT&E Project Justification: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	**Project (Number/Name)** DH5 / *CMOSS Mounted Form Factor (CMFF) Chassis*

The project will converge the payload capabilities into a single CMOSS compliant form factor (chassis) mounted on selected military ground and air platforms that can be demonstrated in a relevant operational environment; meeting current systems performance parameters and facilitate legacy and emerging capabilities.

The CMFF MCI Chassis MTA RP program will execute development in two blocks, focusing initially on light tracked and wheeled vehicles (Block 1) and then the integrated and firing platforms (Block 2). Development of Block 3 (remaining vehicle types and Future Vertical Lift platforms) will occur following the initial MTA RP program.

Intent is to engage industry for the availability of commercial-off-the-shelf chassis. Market research indicates sufficient interest and availability to support competition. Other Transaction Authorities will be utilized to prototype the chassis and operating system software.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	Project (Number/Name) DH5 / *CMOSS Mounted Form Factor (CMFF) Chassis*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
CMFF - Program Management Support	MIPR	TBD : APG, MD	-	-		-		3.731		-		3.731	0.000	3.731	-
		Subtotal	-	-		-		3.731		-		3.731	0.000	3.731	N/A

Remarks

CMFF is a new start program in FY 2025.

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
CMFF - Product Development - Ground	TBD	TBD : TBD	-	-		-		26.914		-		26.914	0.000	26.914	-
CMFF - Product Development - Aviation	TBD	TBD : TBD	-	-		-		6.360		-		6.360	0.000	6.360	-
		Subtotal	-	-		-		33.274		-		33.274	0.000	33.274	N/A

Remarks

CMFF is a new start program in FY 2025.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
CMFF - Test and Evaluation - Ground	MIPR	TBD : TBD	-	-		-		0.379		-		0.379	0.000	0.379	-
		Subtotal	-	-		-		0.379		-		0.379	0.000	0.379	N/A

Remarks

CMFF is a new start program in FY 2025.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army			Date: March 2024
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	Project (Number/Name) DH5 / *CMOSS Mounted Form Factor (CMFF) Chassis*	

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		-		37.384		-		37.384	0.000	37.384	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	**Project (Number/Name)** DH5 / *CMOSS Mounted Form Factor (CMFF) Chassis*

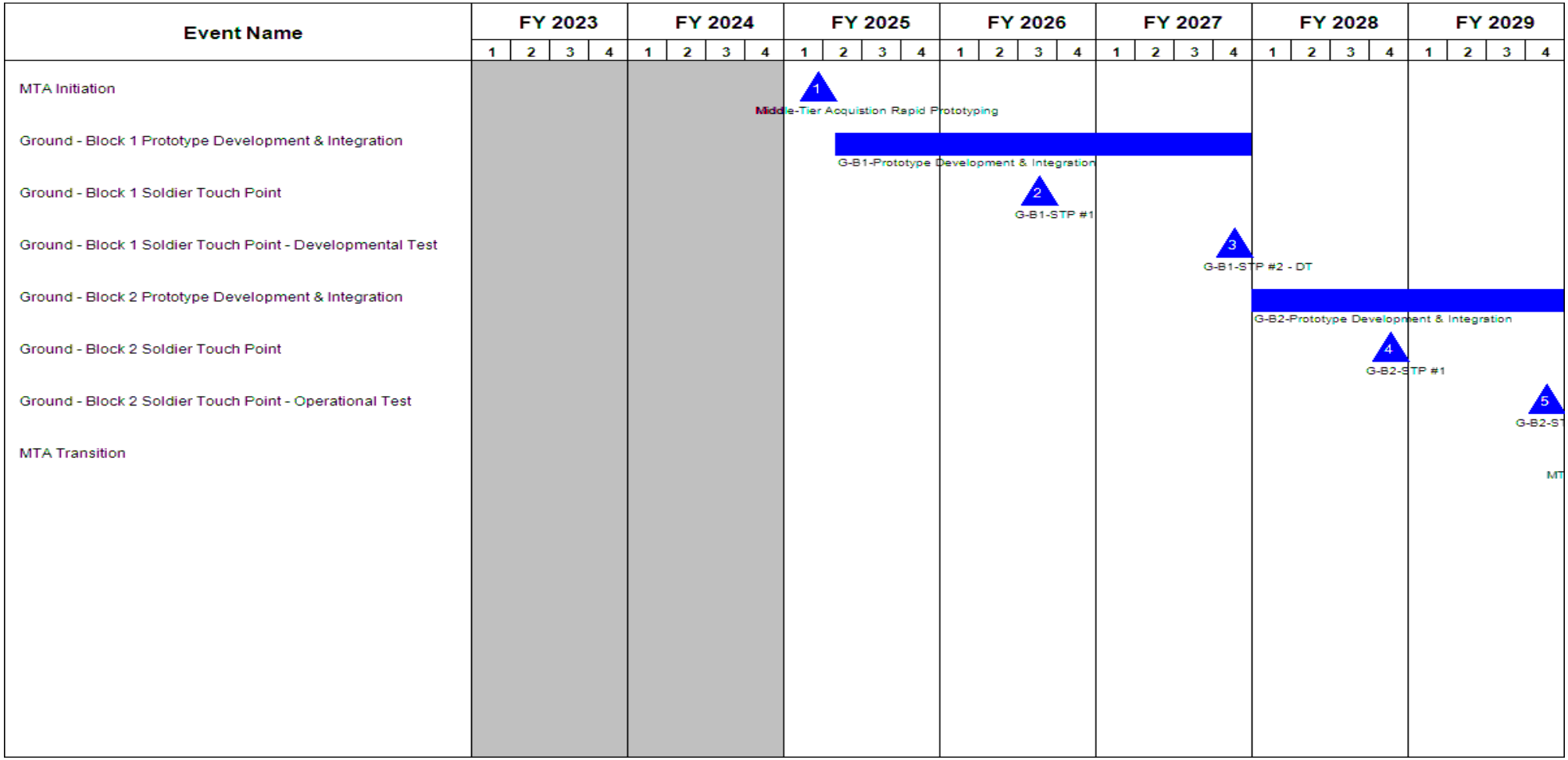

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604805A / *Command, Control, Communications Systems - Eng Dev*	**Project (Number/Name)** DH5 / *CMOSS Mounted Form Factor (CMFF) Chassis*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
MTA Initiation	1	2025	1	2025
Ground - Block 1 Prototype Development & Integration	2	2025	4	2027
Ground - Block 1 Soldier Touch Point	3	2026	3	2026
Ground - Block 1 Soldier Touch Point - Developmental Test	4	2027	4	2027
Ground - Block 2 Prototype Development & Integration	1	2028	4	2029
Ground - Block 2 Soldier Touch Point	4	2028	4	2028
Ground - Block 2 Soldier Touch Point - Operational Test	4	2029	4	2029
MTA Transition	1	2030	1	2030