| Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Army | | | | | | | | | | | Date: May 2021 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Appropriation/Budget Activity<br>2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)* | | | | | R-1 Program Element (Number/Name)<br>PE 0604805A *I Command, Control, Communications Systems - Eng Dev* | | | | | | | |
| **COST ($ in Millions)** | **Prior Years** | **FY 2020** | **FY 2021** | **FY 2022 Base** | **FY 2022 OCO** | **FY 2022 Total** | **FY 2023** | **FY 2024** | **FY 2025** | **FY 2026** | **Cost To Complete** | **Total Cost** |
| Total Program Element | - | 12.077 | 10.674 | 20.121 | - | 20.121 | - | - | - | - | - | - |
| 593: *Joint Battle Command - Platform (JBC-P)* | - | 12.077 | 10.674 | 20.121 | - | 20.121 | - | - | - | - | - | - |

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

This funding line is directly aligned to the Army Network Modernization Strategy LOE 2, Common Operating Environment. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

Joint Battle Command - Platform (JBC-P) supports the N-CFT Line Of Effort (LOE) 2 by utilizing:
- 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

The JBC-P program is the cornerstone of Joint Forces Command and Control (C2) Situational Awareness (SA) and communications. JBC-P includes a network which enables the movement of data and provides secure Blue Force Tracking (BFT) capability in Platforms and Command Posts, providing soldiers and commanders a map-based Common Operating Picture of the battlefield, as a result, reducing fratricide.

PdM JBC-P, under PM Mission Command (MC), is collaborating with the C5ISR Space and Terrestrial Communications Directorate (S&TCD) on evolving the BFT network. Systems engineering efforts continue to develop the evolution path of the BFT network, and the introduction of a Modular Open Systems Approach (MOSA). Using an Other Transaction Authority (OTA) construct, those efforts are intended to inform a BFT-3 full and open solicitation Request for Prototype Proposal (RPP) to industry in FY 2021.

FY 2022 funding supports the BFT-3 standard transceiver and encryption device development contracts, and systems engineering efforts to continue prototype development for BFT-3. Support will include the integration of the BFT modular waveform and line of sight waveform on the transceiver, integration of the transceiver and encryption device to each mounted platform, interoperability with the BFT-2 Satellite Network Control Center (SNCC) and Satellite Ground Station (SGS), and upgrade of the Waveform/Network Virtualization for the BFT network to support the new modular waveform and line of sight waveform. A Preliminary Design Review (PDR) and Critical Design Review (CDR) will also be conducted for the standard transceiver and encryption device development.

JBC-P RDT&E resources are used to improve JBC-P hardware, specifically the transceiver and encryption device, enhancing network performance and resiliency; while Mounted Computing Environment (MCE) RDT&E is used to improve and add software applications.

| Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Army | | | | | Date: May 2021 |
|---|---|---|---|---|---|
| Appropriation/Budget Activity<br>2040: *Research, Development, Test & Evaluation, Army* / BA 5: *System Development & Demonstration (SDD)* | | | R-1 Program Element (Number/Name)<br>PE 0604805A / *Command, Control, Communications Systems - Eng Dev* | | |
| **B. Program Change Summary ($ in Millions)** | **FY 2020** | **FY 2021** | **FY 2022 Base** | **FY 2022 OCO** | **FY 2022 Total** |
| Previous President's Budget | 12.595 | 11.079 | 20.370 | - | 20.370 |
| Current President's Budget | 12.077 | 10.674 | 20.121 | - | 20.121 |
| Total Adjustments | -0.518 | -0.405 | -0.249 | - | -0.249 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | -0.518 | -0.405 | | | |
| • Adjustments to Budget Years | - | - | -0.249 | - | -0.249 |

| Exhibit R-2A, RDT&E Project Justification: PB 2022 Army | | | | | | | | | | | Date: May 2021 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Appropriation/Budget Activity<br>2040 / 5 | | | | | R-1 Program Element (Number/Name)<br>PE 0604805A / *Command, Control, Communications Systems - Eng Dev* | | | | Project (Number/Name)<br>593 / *Joint Battle Command - Platform (JBC-P)* | | | |
| **COST ($ in Millions)** | **Prior Years** | **FY 2020** | **FY 2021** | **FY 2022 Base** | **FY 2022 OCO** | **FY 2022 Total** | **FY 2023** | **FY 2024** | **FY 2025** | **FY 2026** | **Cost To Complete** | **Total Cost** |
| 593: *Joint Battle Command - Platform (JBC-P)* | - | 12.077 | 10.674 | 20.121 | - | 20.121 | - | - | - | - | - | - |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

This funding line is directly aligned to the Army Network Modernization Strategy LOE 2, Common Operating Environment. Efforts are aligned to support the Network-Cross Functional Team capability set approach to achieve the network modernization strategy.

Joint Battle Command - Platform (JBC-P) supports the N-CFT Line Of Effort (LOE) 2 by utilizing:
- 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

The JBC-P program is the cornerstone of Joint Forces Command and Control (C2) Situational Awareness (SA) and communications. JBC-P includes a network which enables the movement of data and provides secure Blue Force Tracking (BFT) capability in Platforms and Command Posts, providing soldiers and commanders a map-based Common Operating Picture of the battlefield, as a result, reducing fratricide.

PdM JBC-P, under PM Mission Command (MC), is collaborating with the C5ISR Space and Terrestrial Communications Directorate (S&TCD) on evolving the BFT network. Systems engineering efforts continue to develop the evolution path of the BFT network, and the introduction of a Modular Open Systems Approach (MOSA). Using an Other Transaction Authority (OTA) construct, those efforts are intended to inform a BFT-3 full and open solicitation Request for Prototype Proposal (RPP) to industry in FY 2021.

FY 2022 funding supports the BFT-3 standard transceiver and encryption device development contracts and systems engineering efforts to continue prototype development for BFT-3. Support will include the integration of the BFT modular waveform and line of sight waveform on the transceiver, integration of the transceiver and encryption device to each mounted platform, interoperability with the BFT-2 Satellite Network Control Center (SNCC) and Satellite Ground Station (SGS), and upgrade of the Waveform/Network Virtualization for the BFT network to support the new modular waveform and line of sight waveform. A Preliminary Design Review (PDR) and Critical Design Review (CDR) will also be conducted for the standard transceiver and encryption device development.

JBC-P RDT&E resources are used to improve JBC-P hardware, specifically the transceiver and encryption device, enhancing network performance and resiliency; while Mounted Computing Environment (MCE) RDT&E is used to improve and add software applications.

| Exhibit R-2A, RDT&E Project Justification: PB 2022 Army | | Date: May 2021 |
|---|---|---|
| **Appropriation/Budget Activity**<br>2040 / 5 | **R-1 Program Element (Number/Name)**<br>PE 0604805A / *Command, Control, Communications Systems - Eng Dev* | **Project (Number/Name)**<br>593 / *Joint Battle Command - Platform (JBC-P)* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|
| ***Title:*** Software/Systems Engineering | 10.396 | 9.475 | 17.384 |
| ***Description:*** Perform Software/Systems Engineering in support of the development of JBC-P capabilities, applications, and services, to include, but not limited to, conducting engineering studies, architecture development (both software and network), system analyses, technical readiness assessments, technical interchange meetings/events, and development of related reports and other deliverables.<br><br>***FY 2021 Plans:***<br>Continue to conduct Systems Engineering, and prototype design for BFT-3 transceiver and encryption device, to include the development and integration of the BFT-3 transceiver running the BFT modular waveform, interoperability with the BFT 2 Satellite Network Control Center (SNCC) and Satellite Ground Station (SGS), and upgrade the Waveform/Network Virtualization for the BFT network to support the new modular waveform. Funding will also support the BFT-3 transceiver and encryption device development awards.<br><br>***FY 2022 Plans:***<br>Funding supports BFT-3 transceiver and encryption device development contracts and systems engineering efforts to continue prototype development for BFT-3. Support will include the integration of the BFT modular waveform and line of sight waveform on the transceiver, integration of the transceiver and encryption device to each mounted platform, interoperability with the BFT-2 Satellite Network Control Center (SNCC) and Satellite Ground Station (SGS), and upgrade of the Waveform/Network Virtualization for the BFT network to support the new modular waveform and line of sight waveform. A Preliminary Design Review (PDR) and Critical Design Review (CDR) will also be conducted for the transceiver and encryption device development.<br><br>***FY 2021 to FY 2022 Increase/Decrease Statement:***<br>Increase to support development contracts and systems engineering efforts to continue BFT-3 transceiver and encryption device prototype development. | | | |
| ***Title:*** Test, Evaluation and Integration | 0.616 | 0.120 | 0.260 |
| ***Description:*** Plan and conduct system Integration test and experimentation events, in support of the BFT-3 development, to include Risk Reduction Events, vulnerability testing, and Army Interoperability Certification (AIC) testing.<br><br>***FY 2021 Plans:***<br>Will conduct testing enhancements to the BFT/JBC-P network, to include third party component (transceiver) characterization, BFT modular waveform verification and validation, and validation of the Rapid Innovation Funding (RIF) deliverables. | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2022 Army | | Date: May 2021 |
|---|---|---|
| **Appropriation/Budget Activity**<br>2040 / 5 | **R-1 Program Element (Number/Name)**<br>PE 0604805A / *Command, Control, Communications Systems - Eng Dev* | **Project (Number/Name)**<br>593 / *Joint Battle Command - Platform (JBC-P)* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2020 | FY 2021 | FY 2022 |
|---|---|---|---|
| Continue to maintain and upgrade BFT network mitigation test lab (operational risk reduction of the currently fielded BFT 1 and BFT 2 network, to Include the Satellite Network Control Center (SNCC), Satellite Ground Station (SGS)), and the updated modular waveform virtualization.<br>***FY 2022 Plans:***<br>Funds support C5ISR lab based internal BFT-3 prototype testing to inform FY22 CDR. Will continue to conduct testing enhancements to the BFT/JBC-P network, to include third party component (transceiver) characterization, and validation, and validation of the initial BFT-3 transceiver and encryption device prototypes. Continue to maintain and upgrade BFT network mitigation test lab (operational risk reduction of the currently fielded BFT 1 and BFT 2 network, to include the Satellite Network Control Center (SNCC), Satellite Ground Station (SGS)), and the updated modular waveform virtualization.<br>***FY 2021 to FY 2022 Increase/Decrease Statement:***<br>Increase reflects cost to support C5ISR lab based internal BFT-3 prototype testing to inform FY22 CDR. | | | |
| ***Title:*** PM Support (Matrix & Contractor)<br>***Description:*** JBC-P matrix and contractor support, including technical, logistics, and business staff oversight.<br>***FY 2021 Plans:***<br>Will continue to provide technical (Satellite Communications (SATCOM), Network, Intel, RF, Cyber, Waveform, Transport) and business oversight for JBC-P architecture sustainment and system engineering activities. Program Management includes funds execution, contract management, and logistical support for the BFT-3 standards body (responsible for configuration management, and new technology insertion into the modular open systems architecture and the modular waveform).<br>***FY 2022 Plans:***<br>Will fund matrix personnel to support to the development of the BFT-3 transceiver and encryption device prototypes, as well as continue to provide technical (SATCOM, Network, Intel, RF, Cyber, Waveform, Transport) and business oversight for JBC-P architecture sustainment and system engineering activities. Program Management includes funds execution, contract management, and logistical support for the BFT-3 standards body (responsible for configuration management, and new technology insertion into the modular open systems architecture, the modular waveform).<br>***FY 2021 to FY 2022 Increase/Decrease Statement:***<br>Increase reflects matrix support needed as oversight for the development of new OTA construct. | 1.065 | 1.079 | 2.477 |
| **Accomplishments/Planned Programs Subtotals** | 12.077 | 10.674 | 20.121 |

| Exhibit R-2A, RDT&E Project Justification: PB 2022 Army | | Date: May 2021 |
|---|---|---|
| **Appropriation/Budget Activity**<br>2040 / 5 | **R-1 Program Element (Number/Name)**<br>PE 0604805A / *Command, Control, Communications Systems - Eng Dev* | **Project (Number/Name)**<br>593 / *Joint Battle Command - Platform (JBC-P)* |

**C. Other Program Funding Summary ($ in Millions)**

| Line Item | FY 2020 | FY 2021 | FY 2022 Base | FY 2022 OCO | FY 2022 Total | FY 2023 | FY 2024 | FY 2025 | FY 2026 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|
| • W61990: *JOINT BATTLE COMMAND - PLATFORM (JBC-P)* | 282.114 | 243.850 | 263.661 | - | 263.661 | - | - | - | - | - | - |

**Remarks**

Procurement funding (Base funding) is designated for the procurement, fielding, and program management of JBC-P.
JBC-P will complete procurement of its Army Acquisition Objective (AAO)/Basis of Issue (BOI) in FY24, and reach Full Operational Capability (FOC) in FY25.

**D. Acquisition Strategy**

The JBC-P Capabilities Development Document in lieu of Capabilities Production Document (CDD ILO CPD) was Joint Requirements Oversight Council (JROC) approved in March 2013. Initial Operational Test & Evaluation (IOT&E), as part of Network Integration Evaluation (NIE) 13.2, was completed in 3Q FY2013. The IOT&E tested the JBC-P system software on existing Force XXI Battle Command Brigade and Below (FBCB2) hardware (non-dismountable vehicle systems) and future production-representative hardware. On completion of Army Interoperability Certification (AIC) and Joint Interoperability Test Certification (JITC), Milestone Decision Authority (MDA) authorized Full Rate Production (FRP) in 1Q FY 2014. First unit equipped (FUE) was successfully conducted 3Q FY 2015.

Beginning in FY 2017, Systems Engineering development began for JBC-P's next generation Blue Force Tracking (BFT) Open Systems Architecture. Development was based on objective requirements in the JBC-P CDD ILO CPD until a follow-on requirements document is finalized. Developmental efforts are being performed through intra-government collaboration. System engineering efforts are being performed by C5ISR's Space and Terrestrial Communications Directorate (S&TCD); Command, Power and Integration (CP&I) and the Intelligence and Information Warfare Directorate (I2WD). Those efforts are intended to inform a BFT-3 full and open solicitation (Request for Prototype Proposal (RPP)) to industry in FY 2021.

Subsequent to RPP, FY 2022 funding will be placed on newly awarded contracts for prototype development of the BFT-3 standard transceiver and encryption device. FY 2022 performance testing on the BFT-3 transceiver and encryption device will validate preparation of initial FY 2023 prototype deliveries. Beginning in FY 2024, the development of the BFT-3 high resiliency and ground Aviation transceiver variants will begin. This transceiver will provide increased resiliency, leveraging emerging technology, though implementing an additional advanced beyond line of sight capability. RPP and Prototype awards are planned for FY 2024.

The follow-on effort for JBC-P is being established as the Mounted Mission Command (MMC) Family of Systems (FoS). MMC-Transport (MMC-T) is a part of the MMC FoS, and supports development of next generation Blue Force Tracking (BFT) hardware, specifically, the BFT-3 transceivers and encryption device, enhancing network performance and resiliency.

| Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army | | | Date: May 2021 |
|---|---|---|---|
| Appropriation/Budget Activity<br>2040 / 5 | R-1 Program Element (Number/Name)<br>PE 0604805A / *Command, Control, Communications Systems - Eng Dev* | Project (Number/Name)<br>593 / *Joint Battle Command - Platform (JBC-P)* | |

**Product Development ($ in Millions)**

| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | FY 2020 Cost | FY 2020 Award Date | FY 2021 Cost | FY 2021 Award Date | FY 2022 Base Cost | FY 2022 Base Award Date | FY 2022 OCO Cost | FY 2022 OCO Award Date | FY 2022 Total Cost | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JBC-P Software Development | Various | Multiple : Multiple | 67.463 | - | | - | | - | | - | | - | Continuing | Continuing | - |
| JBC-P Software/System Engineering | Various | Multiple (Government and industry) : Multiple | 58.930 | 10.396 | Jan 2020 | 9.475 | Nov 2020 | 17.384 | Nov 2021 | - | | 17.384 | Continuing | Continuing | - |
| | | **Subtotal** | 126.393 | 10.396 | | 9.475 | | 17.384 | | - | | 17.384 | Continuing | Continuing | N/A |

**Remarks**

FY 2021 to FY 2022 increase to support development contracts and systems engineering efforts to continue BFT-3 transceiver and encryption device prototype development.

**Support ($ in Millions)**

| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | FY 2020 Cost | FY 2020 Award Date | FY 2021 Cost | FY 2021 Award Date | FY 2022 Base Cost | FY 2022 Base Award Date | FY 2022 OCO Cost | FY 2022 OCO Award Date | FY 2022 Total Cost | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PM Support (Matrix / SETA Contractor) | Various | PM JBC-P : Aberdeen Proving Ground (APG), MD | 9.330 | 1.065 | Dec 2019 | 1.079 | Nov 2020 | 2.477 | Nov 2021 | - | | 2.477 | Continuing | Continuing | - |
| | | **Subtotal** | 9.330 | 1.065 | | 1.079 | | 2.477 | | - | | 2.477 | Continuing | Continuing | N/A |

**Remarks**

FY 2021 to FY 2022 increase reflects matrix support needed as oversight for the development of new Other Transaction Authority (OTA) construct.

**Test and Evaluation ($ in Millions)**

| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | FY 2020 Cost | FY 2020 Award Date | FY 2021 Cost | FY 2021 Award Date | FY 2022 Base Cost | FY 2022 Base Award Date | FY 2022 OCO Cost | FY 2022 OCO Award Date | FY 2022 Total Cost | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Develop and Conduct Tests and Assessments | MIPR | Multiple : Multiple | 29.658 | 0.616 | Jan 2020 | 0.120 | Oct 2020 | 0.260 | Oct 2021 | - | | 0.260 | Continuing | Continuing | - |
| | | **Subtotal** | 29.658 | 0.616 | | 0.120 | | 0.260 | | - | | 0.260 | Continuing | Continuing | N/A |

**Remarks**

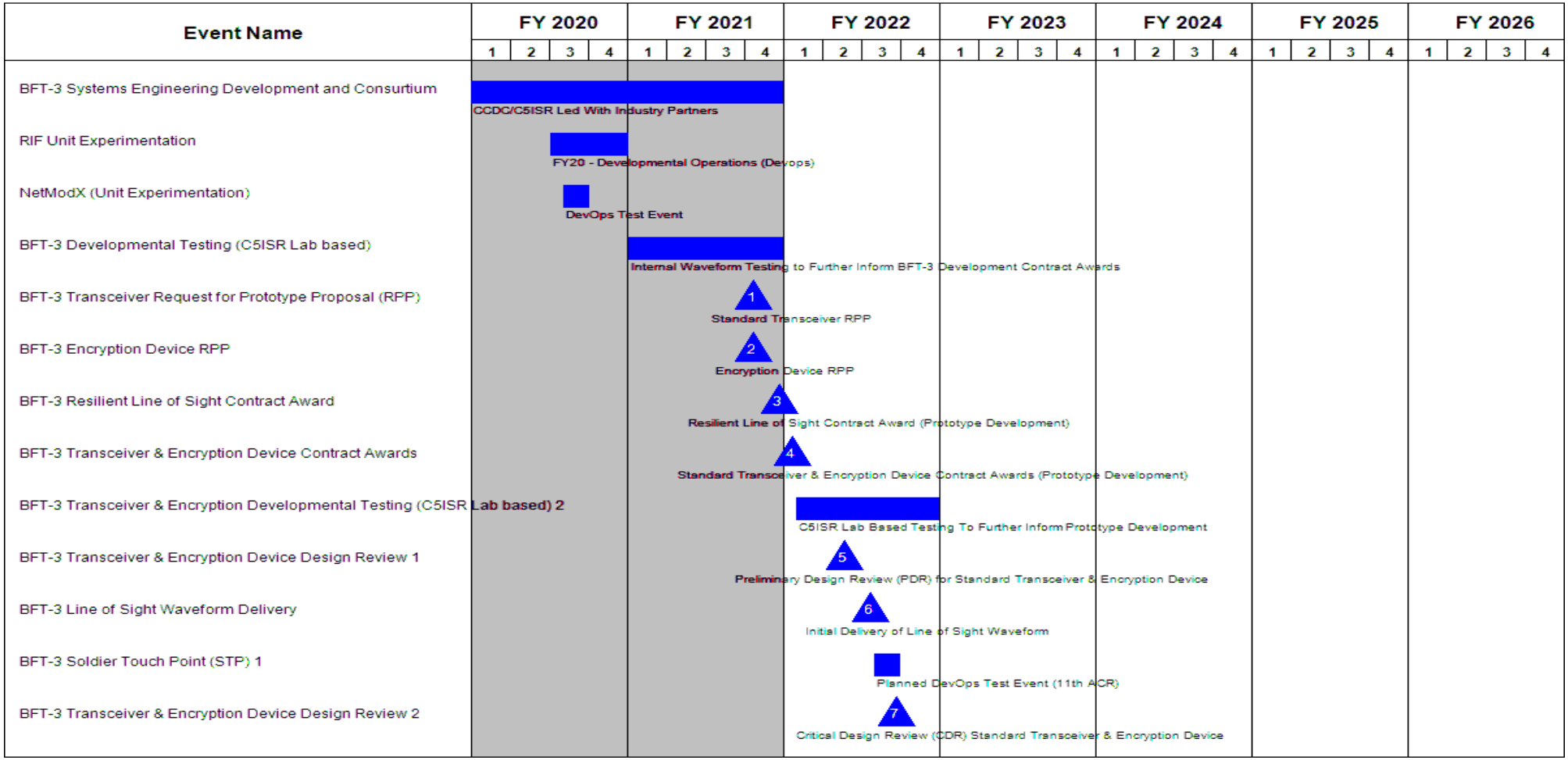
FY 2021 to FY 2022 increase reflects cost to support C5ISR lab based internal BFT-3 prototype testing to inform FY22 Critical Design Review (CDR).

| Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army | | | Date: May 2021 |
|---|---|---|---|
| Appropriation/Budget Activity<br>2040 / 5 | R-1 Program Element (Number/Name)<br>PE 0604805A / *Command, Control, Communications Systems - Eng Dev* | Project (Number/Name)<br>593 / *Joint Battle Command - Platform (JBC-P)* | |

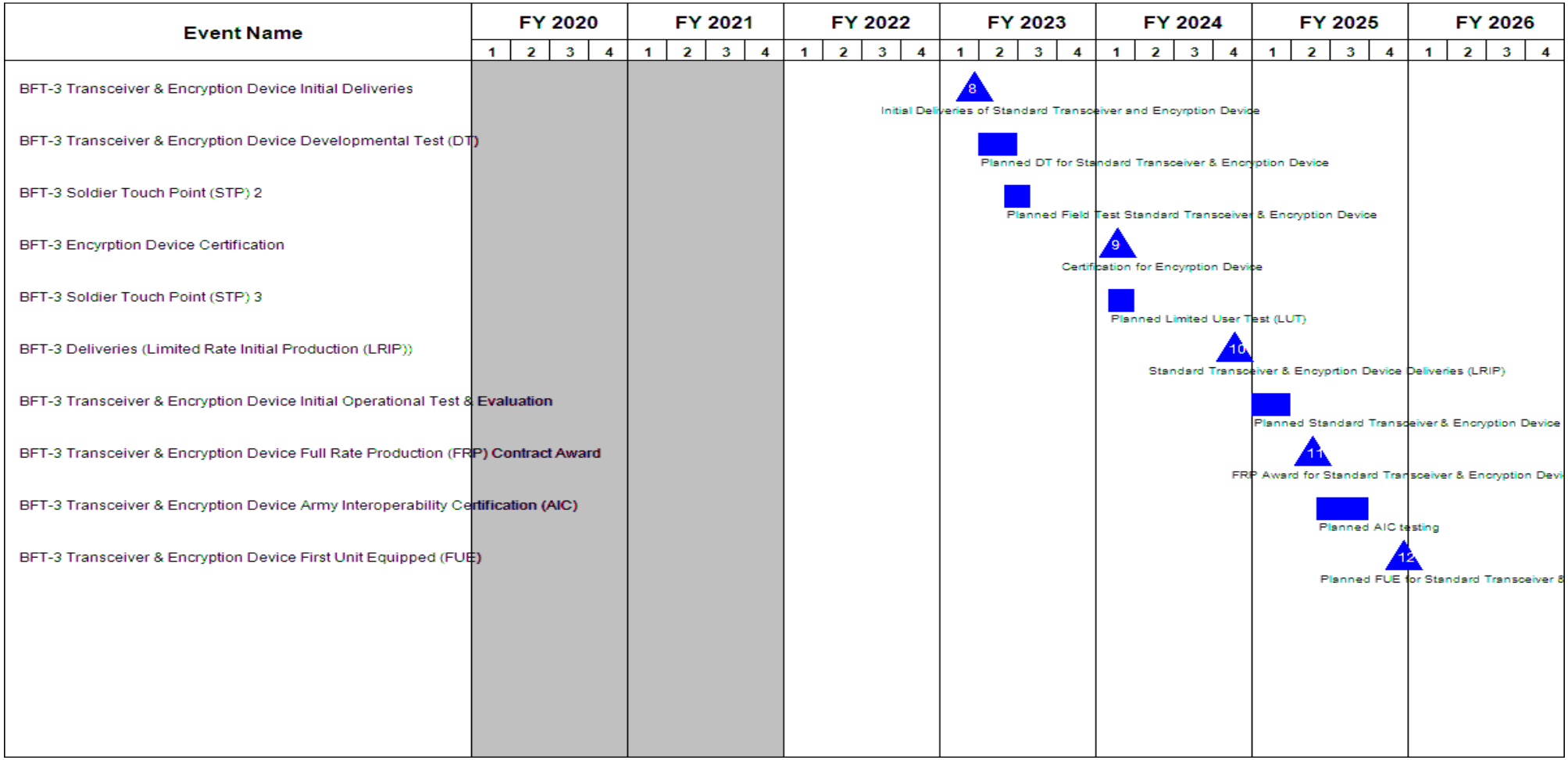
| | Prior Years | FY 2020 | | FY 2021 | | FY 2022 Base | | FY 2022 OCO | | FY 2022 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Project Cost Totals** | 165.381 | 12.077 | | 10.674 | | 20.121 | | - | | 20.121 | Continuing | Continuing | N/A |

**Remarks**

| Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army | | Date: May 2021 |
|---|---|---|
| **Appropriation/Budget Activity**<br>2040 / 5 | **R-1 Program Element (Number/Name)**<br>PE 0604805A / *Command, Control, Communications Systems - Eng Dev* | **Project (Number/Name)**<br>593 / *Joint Battle Command - Platform (JBC-P)* |



| Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army | | Date: May 2021 |
|---|---|---|
| **Appropriation/Budget Activity**<br>2040 / 5 | **R-1 Program Element (Number/Name)**<br>PE 0604805A / *Command, Control, Communications Systems - Eng Dev* | **Project (Number/Name)**<br>593 / *Joint Battle Command - Platform (JBC-P)* |



| Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army | | Date: May 2021 |
|---|---|---|
| **Appropriation/Budget Activity**<br>2040 / 5 | **R-1 Program Element (Number/Name)**<br>PE 0604805A / *Command, Control, Communications Systems - Eng Dev* | **Project (Number/Name)**<br>593 / *Joint Battle Command - Platform (JBC-P)* |

## Schedule Details

| | Start | | End | |
|---|---|---|---|---|
| **Events** | **Quarter** | **Year** | **Quarter** | **Year** |
| BFT-3 Systems Engineering Development and Consurtium | 2 | 2017 | 4 | 2021 |
| RIF Unit Experimentation | 3 | 2020 | 4 | 2020 |
| NetModX (Unit Experimentation) | 3 | 2020 | 3 | 2020 |
| BFT-3 Developmental Testing (C5ISR Lab based) | 1 | 2021 | 4 | 2021 |
| BFT-3 Transceiver Request for Prototype Proposal (RPP) | 4 | 2021 | 4 | 2021 |
| BFT-3 Encryption Device RPP | 4 | 2021 | 4 | 2021 |
| BFT-3 Resilient Line of Sight Contract Award | 4 | 2021 | 4 | 2021 |
| BFT-3 Transceiver & Encryption Device Contract Awards | 1 | 2022 | 1 | 2022 |
| BFT-3 Transceiver & Encryption Developmental Testing (C5ISR Lab based) 2 | 1 | 2022 | 4 | 2022 |
| BFT-3 Transceiver & Encryption Device Design Review 1 | 2 | 2022 | 2 | 2022 |
| BFT-3 Line of Sight Waveform Delivery | 3 | 2022 | 3 | 2022 |
| BFT-3 Soldier Touch Point (STP) 1 | 3 | 2022 | 3 | 2022 |
| BFT-3 Transceiver & Encryption Device Design Review 2 | 3 | 2022 | 3 | 2022 |
| BFT-3 Transceiver & Encryption Device Initial Deliveries | 1 | 2023 | 1 | 2023 |
| BFT-3 Transceiver & Encryption Device Developmental Test (DT) | 2 | 2023 | 2 | 2023 |
| BFT-3 Soldier Touch Point (STP) 2 | 2 | 2023 | 3 | 2023 |
| BFT-3 Encyrption Device Certification | 1 | 2024 | 1 | 2024 |
| BFT-3 Soldier Touch Point (STP) 3 | 1 | 2024 | 1 | 2024 |
| BFT-3 Deliveries (Limited Rate Initial Production (LRIP)) | 4 | 2024 | 4 | 2024 |
| BFT-3 Transceiver & Encryption Device Initial Operational Test & Evaluation | 1 | 2025 | 1 | 2025 |
| BFT-3 Transceiver & Encryption Device Full Rate Production (FRP) Contract Award | 2 | 2025 | 2 | 2025 |
| BFT-3 Transceiver & Encryption Device Army Interoperability Certification (AIC) | 2 | 2025 | 3 | 2025 |

| Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army | | Date: May 2021 |
|---|---|---|
| **Appropriation/Budget Activity**<br>2040 / 5 | **R-1 Program Element (Number/Name)**<br>PE 0604805A / *Command, Control, Communications Systems - Eng Dev* | **Project (Number/Name)**<br>593 / *Joint Battle Command - Platform (JBC-P)* |

| | Start | | End | |
|---|---|---|---|---|
| **Events** | **Quarter** | **Year** | **Quarter** | **Year** |
| BFT-3 Transceiver & Encryption Device First Unit Equipped (FUE) | 4 | 2025 | 4 | 2025 |