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

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</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	-	39.192	35.172	36.966	-	36.966	37.123	37.295	37.306	37.670	Continuing	Continuing
BT2: <i>Command Post Mobility/Survivability</i>	-	9.373	8.418	8.729	-	8.729	8.762	8.759	8.762	8.847	Continuing	Continuing
BT3: <i>Common Operating Environment (COE)</i>	-	7.866	7.049	7.335	-	7.335	7.367	7.376	7.378	7.450	Continuing	Continuing
BT5: <i>Integrated Tactical Network/Enterprise Network</i>	-	21.953	19.705	20.902	-	20.902	20.994	21.160	21.166	21.373	Continuing	Continuing

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Army Network Cross Functional Team. Unified Network Transport is directly aligned to the Army Network Modernization Strategy Line of Effort 1 (LOE 1) Unified Network; LOE 2, Common Operating Environment (COE), LOE 3, Interoperability; and LOE 4, Command Post Mobility and Survivability. These efforts support advanced component development activities that are aligned to the Army's Tactical Network Capability Set development and fielding plans.

The Program Executive Office Command, Control, Communications-Tactical (PEO C3T) is responsible for prioritizing, programming, managing and executing these projects and ensuring these funds are prioritized to support the Network Cross-Functional Team (N-CFT) Army modernization priorities and prototyping. The N-CFT and PEO C3T prioritize technology demonstrations, focused evaluations, and expert analyses to inform future requirements, mature technologies, and deliver new capabilities. Efforts funded from these projects will inform technology transitions, research and development, and user assessments, and then rapidly transition to appropriate Programs of Record or be established as a new program.

Unified Network Transport provides the ground domain network connectivity of Joint All Domain Command and Control (JADC2) and enables Unified Action Partner interoperability through integration with the Mission Partner Environment (MPE). Interoperability is the ability to routinely act together coherently, effectively and efficiently to achieve tactical, operational, and strategic objectives. Interoperability between disparate forces allows coalitions to produce greater combat power than the sum of their parts by leveraging relative strengths while mitigating relative weaknesses.

FY 2023 funds will support identification, maturation, demonstration, and evaluation of Technology Readiness Level (TRL) 6+ systems and subsystem components including, but not limited to, resilient Line of Site (LOS) and beyond Line of Sight (BLOS) communications, information systems and information management; cyber electromagnetic activities (CEMA) situational understanding and operations; intelligence fusion, cloud technologies, virtual augmentation, artificial intelligence/machine learning (AI/ML), and data convergence and analytics in the Common Operating Environment to inform the Integrated Tactical Network/Enterprise Network and Enabling Functions, Computing Environments, Interoperability and Command Posts. Successful solutions identified through evaluation in a high fidelity and realistic operating environment will be transitioned to Programs of Record for integration and fielding. Funds will also support integration with solutions identified in the other Modernization CFT efforts to ensure network dependencies are addressed.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Army	Date: April 2022
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>
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B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	39.192	35.409	0.000	-	0.000
Current President's Budget	39.192	35.172	36.966	-	36.966
Total Adjustments	0.000	-0.237	36.966	-	36.966
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	36.966	-	36.966
• FFRDC Transfer	-	-0.237	-	-	-

Change Summary Explanation

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>				Project (Number/Name) BT2 / <i>Command Post Mobility/Survivability</i>			
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
BT2: <i>Command Post Mobility/Survivability</i>	-	9.373	8.418	8.729	-	8.729	8.762	8.759	8.762	8.847	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Army Network Cross Functional Team. Project BT2, Command Post Mobility/Survivability, is directly aligned to the Army Network Modernization Strategy Line of Effort 4 (LOE 4), Command Post Mobility and Survivability. These efforts support advanced component development activities that are directly aligned to the Army's Tactical Network Capability Set development and fielding plans.

This project supports mobile Command Post efforts that may transition to sponsoring programs that get integrated in Command Post Integrated Infrastructure (CPI2) platforms. The technical maturation and evaluation allow for Command Post disaggregation capabilities to inform future designs and support Command Post survivability against near peer competitors. Spectrum obfuscation and assessments of antenna remoting will support the Command Post efforts for CPI2 Increment 1 and beyond.

FY2023 funds will be used to mature, prototype, and evaluate emerging technologies that will inform design choices for the Army's Command Post infrastructure. Funds also support identification, maturation, demonstration, and evaluation of Technology Readiness Level (TRL) 6+ systems and subsystem components leading to a desired end state of resilient communications, adaptable computing and infrastructure, integrated power, electromagnetic signature management, and electromagnetic signature awareness to support Joint and Coalition Interoperability requirements in addition to Multi-Domain Operations (MDO) in Disconnected, Intermittent, and Limited (DIL) conditions. Successful solutions identified through evaluation in a high fidelity and realistic operating environment will be transitioned to Programs of Record for integration and fielding. Funds will also support integration with solutions identified in other Modernization Cross Functional Team (CFT) efforts to ensure network dependencies are addressed.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2021	FY 2022	FY 2023
Title: BT2 Command Post Mobility and Survivability	9.373	8.111	8.226
Description: This funding is used to identify and acquire technologies for evaluation that address gaps associated with LOE 4, Command Post (CP), in the overall Integrated Tactical Network. The CP LOE will focus on developing and obtaining approval of requirements for integrated command posts, then delivering these integrated command post designs to Army units. LOE 4 addresses the operational requirement of Deployable, Integrated, and Mobile Command Post and integrates Knowledge Management.			
FY 2022 Plans: Funds will be used to mature, prototype, and evaluate emerging technologies that will inform design choices for the Command Post Integrated Infrastructure (CPI2) Increment 1 and beyond. Effort includes evaluation for tactically employable Command Post (CP) disaggregation capabilities and will also allow for the integration of spectrum obfuscation modes of employment			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT2 / <i>Command Post Mobility/Survivability</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>for limited radio frequency emissions capabilities into a tactically deployable CP. Efforts also include assessment of antenna remoting solutions and will enable integration of Mission Partner Environment hardware components into the CP. These efforts will be demonstrated and evaluated with FORSCOM and inform the program technical baseline and DOTMLPF. Technical Exchange Meetings (TEM) with Industry will lead to the assessment, demonstration, prototyping and integration of emerging industry solutions to mature Command Post capabilities. Efforts will inform the requirements for a survivable and effective mobile Command Post in a contested and congested environment.</p> <p>FY 2023 Plans: Funds will be used to mature, prototype, and evaluate emerging technologies relating to mobile and survivable Command Posts in a contested and congested environment. Effort includes maturing integrated power capabilities to provide redundancy in power generation that will inform design choices for the Army's Command Post infrastructure. Effort also includes creating signature awareness, reducing total electromagnetic signature, creating the means to disperse CP nodes and retaining effective Commander-Staff collaboration against near peer competition. These efforts will be demonstrated and evaluated with FORSCOM and inform the program technical baseline and DOTMLPF. Innovative industry prototyping and evaluation associated with Technical Exchange Meetings (TEM) will lead to the assessment, demonstration, prototyping and integration of emerging industry solutions. Requirements for Command Post Mobility and Survivability will align with prioritization of science & technology and industry innovation efforts in support of Army Capability Set development.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase is due to inflation.</p>				
<p>Title: Program Management</p> <p>Description: Program management includes overall management of program execution, major events, reporting, funding execution, and contract management. Includes participation in program planning and Integrated Product Team meetings with key stakeholders including the Network Cross Functional Team (N-CFT).</p> <p>FY 2023 Plans: Funds will be used to provide overall management in support of Unified Network Transport efforts, including contractor personnel and contract management support via Army Contracting Command.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase is due to decision to separate out program management costs for improved visibility and slight increase in overall program costs.</p>		-	-	0.503
<p>Title: SBIR/STTR Transfer</p> <p>Description: Funding transferred in accordance with Title 15 USC ?638</p>		-	0.307	-

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army	Date: April 2022
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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT2 / <i>Command Post Mobility/Survivability</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<i>FY 2022 Plans:</i> Funding transferred in accordance with Title 15 USC ?638			
<i>FY 2022 to FY 2023 Increase/Decrease Statement:</i> Funding transferred in accordance with Title 15 USC ?638 for FY22			
Accomplishments/Planned Programs Subtotals	9.373	8.418	8.729

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

Remarks
N/A

D. Acquisition Strategy

Network Cross Functional Team (N-CFT) will coordinate on technologies to be evaluated with appropriate Program Management (PM) offices where there is an opportunity for technology insertion. Technologies that are determined to address technology gaps and require further evaluation will be documented in a Product Plan that authorizes a plan of execution for each capability being pursued. The various prototyping technologies will be pursued via competitively awarded contracts using best value source selection procedures. Identified Technology Readiness Level (TRL) 6 technologies will be matured, demonstrated, tested, and evaluated in realistic environments to achieve TRL 7. Selected technologies will be integrated into existing Programs of Record. A Transition Agreement (TA) is completed between the receiving Program Executive Office (PEO) and the Science and Technology (S&T) community no later than halfway between the project start date and the project's first anticipated transition of any product(s) to a PEO/PM.

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

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT2 / <i>Command Post Mobility/Survivability</i>
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Management Services (\$ 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			
Program Management Office Support	TBD	BAH/ACC/NIWC-LANT : APG, MD	-	-		-		0.503	Dec 2022	-		0.503	0.000	0.503	-
SBIR/STTR Transfer	TBD	TBD : TBD	-	-		0.307		-		-		-	0.000	0.307	-
Subtotal			-	-		0.307		0.503		-		0.503	0.000	0.810	N/A

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			
Science & Technology - Surv Cmd Post	TBD	CCDC/Polaris Alpha/AASKI : APG, MD/Fredericksburg, VA/APG, MD	3.187	5.373	Nov 2020	1.293	Nov 2021	-		-		-	0.000	9.853	-
Science & Technology - Spectrum Obfuscation	TBD	BAH : Mclean, VA	1.088	4.000	Feb 2021	2.000	Dec 2021	-		-		-	0.000	7.088	-
Science & Technology Maturation Prototyping & Evaluation	TBD	DEVCOM C5ISR / PEO C3T : APG, MD	-	-		-		4.500	Dec 2022	-		4.500	0.000	4.500	-
Industry Innovation Prototyping & Evaluation	TBD	TBD : TBD	1.047	-		4.818	Feb 2022	3.726	Feb 2023	-		3.726	0.000	9.591	-
Subtotal			5.322	9.373		8.111		8.226		-		8.226	0.000	31.032	N/A

Remarks

FY 2021 cost data updated to reflect actuals.

	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		5.322	9.373	8.418	8.729	-	8.729	0.000	31.842	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT2 / <i>Command Post Mobility/Survivability</i>
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Event Name	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
Survivable Command Post																												
Spectrum Obfuscation																												
Mobile and Survivable Command Posts (MASCP)																												
Industry Innovation Prototyping & Evaluation																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army	Date: April 2022
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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT2 / <i>Command Post Mobility/Survivability</i>
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Survivable Command Post	2	2020	4	2022
Spectrum Obfuscation	2	2020	4	2022
Mobile and Survivable Command Posts (MASCP)	2	2023	2	2028
Industry Innovation Prototyping & Evaluation	4	2020	1	2028

Note

Industry Innovation Prototyping and Evaluation projects are awarded following Technical Exchange Meetings (TEM) and are continuous activities; Network Cross Functional Team (N-CFT) and Program Executive Office Command, Control, Communications-Tactical (PEO C3T) will reach out to industry partners in order to assess and demonstrate the latest emerging technologies which will reduce capability gaps and provide rapid software/hardware insertions into Programs of Records.

Changes from PB22 Schedule:

- Science and Technology (S&T) projects are evaluated based on ongoing forums with the S&T community. N-CFT and PEO C3T track changes to the S&T efforts, including but not limited to, titles, descriptions, Technology Readiness Level (TRL), planned program transition and transfer agreement status. N-CFT and PEO C3T utilize this information to prioritize the S&T projects by fiscal year.
- The schedule for Mobile and Survivable Command Posts (MASCP) is inclusive of multiple sub-efforts.
- The schedule for Industry Innovation Prototyping & Evaluation extends through FY27 to reflect the continuous nature of industry engagements.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>				Project (Number/Name) BT3 / <i>Common Operating Environment (COE)</i>			
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
BT3: <i>Common Operating Environment (COE)</i>	-	7.866	7.049	7.335	-	7.335	7.367	7.376	7.378	7.450	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Army Network Cross Functional Team. Project BT3, Common Operating Environment (COE), is directly aligned to the Army Network Modernization Strategy Line of Effort 2 (LOE 2), Common Operating Environment (COE). These efforts support advanced component development activities that are aligned to the Army's Tactical Network Capability Set development and fielding plans.

This project will inform future network, applications and data capability sets by evaluating and maturing the use of cloud technologies, virtual augmentation, artificial intelligence, data convergence and analytics in the Common Operating Environment. This includes processing and storage to improve the architecture support for mobile, secure and distributed operations. Common Operating Environment (COE), creates an approved set of standards, computing technologies, integrated data and databases, common graphics and a unified set of mission command applications. It allows warfighters to adapt and configure the network as conditions change which is outlined in the approved COE requirements documents.

FY2023 funds will be used to mature technologies to assess and evaluate the technical feasibility of solutions for enhanced planning and execution capabilities that enable rapid decision making at the speed of relevance. Funds will also support identification, maturation, demonstration, and evaluation of Technology Readiness Level (TRL) 6+ systems and subsystem components including data discovery, synchronization, security, and analysis across multiple data silos and disparate data platforms to efficiently converge data types to support Joint and Coalition Interoperability requirements. Funds will also support integration with solutions identified in other Modernization Cross Functional Team (CFT) efforts to ensure network dependencies are addressed.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2021	FY 2022	FY 2023
Title: BT3 Common Operating Environment	7.039	6.791	6.912
Description: This funding is used to identify and acquire technologies to address gaps associated with LOE 2, Common Operating Environment (COE), in the overall Integrated Network. This LOE creates an approved set of standards, computing technologies, integrated data and databases and common graphics and a unified set of mission command applications. It will also support collaboration using a common picture with joint and coalition mission partners. This LOE delivers an integrated body of requirements that meet operational needs.			
FY 2022 Plans: Funds will be used to mature technologies that capture, correlate, and present data from available sources such as spectrum, electronic warfare (EW), red and gray space for visualization for cyber situational understanding. Funds will also be used			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT3 / <i>Common Operating Environment (COE)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>to evaluate the technical feasibility of solutions for expanded computing in tactical environments, data convergence, sensor integration across identified platforms, and flexible and scalable computing hardware/software as well as efforts with Industry partners resulting from Technical Exchange Meetings that will lead to potential solutions to assess, demonstrate, prototype, and integrate emerging industry solutions to mature Common Operating Environment capabilities.</p> <p>FY 2023 Plans: Funds will be used to continue efforts to mature technologies that capture, correlate, present data and enable rapid decision making at the speed of relevance using Artificial Intelligence/Machine Learning (AI/ML) and Automated Data Processing capabilities. Funds will also be used to evaluate the technical feasibility of solutions for expanded computing in tactical environments, data convergence, data fabric, sensor integration across identified platforms, flexible and scalable computing hardware/software, and applications security to inform command post computing environment tactical cloud/server infrastructure as well as efforts for innovative industry prototyping and evaluation associated with Technical Exchange Meetings (TEM) that will lead to potential solutions to assess, demonstrate, prototype, and integrate emerging industry solutions to mature Common Operating Environment capabilities. Requirements for Common Operating Environment will align with prioritization of science & technology and industry innovation efforts in support of Army Capability Set development.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase is due to inflation.</p>				
<p>Title: Program Management</p> <p>Description: Program management includes overall management of program execution, major events, reporting, funding execution, and contract management. Includes participation in program planning and Integrated Product Team meetings with key stakeholders including the Network Cross Functional Team (N-CFT).</p> <p>FY 2023 Plans: Funds will be used to provide overall management in support of Unified Network Transport efforts, including contractor personnel and contract management support via Army Contracting Command.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase is due to decision to separate out program management costs for improved visibility and slight increase in overall program costs.</p>		0.827	-	0.423
<p>Title: FY22 SBIR/STTR Transfer</p> <p>Description: FY22 SBIR/STTR Transfer in accordance with Title 15 USC ?638</p> <p>FY 2022 Plans:</p>		-	0.258	-

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT3 / <i>Common Operating Environment (COE)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
Funding transferred in accordance with Title 15 USC ?638				
<i>FY 2022 to FY 2023 Increase/Decrease Statement:</i>				
Funding transferred in accordance with Title 15 USC ?638				
Accomplishments/Planned Programs Subtotals		7.866	7.049	7.335
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
N/A				
D. Acquisition Strategy				
<p>Network Cross Functional Team (N-CFT) will coordinate on technologies to be evaluated with appropriate Program Management (PM) offices where there is an opportunity for technology insertion. Technologies that are determined to address technology gaps and require further evaluation will be documented in a Product Plan that authorizes a plan of execution for each capability being pursued. The various prototyping technologies will be pursued via competitively awarded contracts using best value source selection procedures. Identified Technology Readiness Level (TRL) 6 technologies will be matured, demonstrated, tested, and evaluated in realistic environments to achieve TRL 7. Selected technologies will be integrated into existing Programs of Record. A Transition Agreement (TA) is completed between the receiving Program Executive Office (PEO) and the Science and Technology (S&T) community no later than halfway between the project start date and the project's first anticipated transition of any product(s) to a PEO/PM.</p>				

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

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT3 / <i>Common Operating Environment (COE)</i>
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Management Services (\$ 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			
Program Management Office Support	TBD	BAH/ACC/NIWC-LANT : APG, MD	-	0.827	Jun 2021	-		0.423	Dec 2022	-		0.423	0.000	1.250	-
SBIR/STTR Transfer	TBD	TBD : TBD	-	-		0.258		-		-		-	0.000	0.258	-
Subtotal			-	0.827		0.258		0.423		-		0.423	0.000	1.508	N/A

Remarks
FY 2021 cost data updated to reflect actuals.

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			
Science & Technology (S&T) Maturation - Spectrum Awareness	TBD	CCDC/BAH/MITRE : APG, MD	1.000	-		-		-		-		-	0.000	1.000	-
S&T Maturation - Cyber Situational Awareness	TBD	CCDC/MITRE/CACI/ MIT LL : APG, MD, Various	2.145	1.355	Nov 2020	-		-		-		-	0.000	3.500	-
S&T Maturation - Modular RF	TBD	DEVCOM AvMC/ SAIC : Huntsville, AL	-	1.883	Aug 2021	-		-		-		-	0.000	1.883	-
S&T Maturation - C5ISR Modular Open Suite of Standards	TBD	CCDC/Spectranetix : APG, MD/Sunnyvale, CA	-	0.157	Dec 2021	-		-		-		-	0.000	0.157	-
Science & Technology Maturation Prototyping & Evaluation	TBD	DEVCOM C5ISR, PEO C3T : APG, MD	-	-		3.669	Dec 2021	4.000	Dec 2022	-		4.000	0.000	7.669	-
Industry Innovation - Common Data Fabric	TBD	Palantir : Palo Alto, CA	0.131	3.644	May 2021	-		-		-		-	0.000	3.775	-
Industry Innovation Prototyping & Evaluation	TBD	TBD : TBD	0.895	-		3.122	Feb 2022	2.912	Feb 2023	-		2.912	0.000	6.929	-
Subtotal			4.171	7.039		6.791		6.912		-		6.912	0.000	24.913	N/A

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

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT3 / <i>Common Operating Environment (COE)</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			

Remarks
FY 2021 cost data updated to reflect actuals.

	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	4.171	7.866	7.049	7.335	-	7.335	0.000	26.421	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT3 / <i>Common Operating Environment (COE)</i>

Event Name	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
Cyber Situational Understanding	█																											
Spectrum Awareness	█																											
Hardened Transport	█																											
Modular RF					█																							
Rainmaker									█																			
Applications Security-Containers (AppSec-C)									█																			
Information Trust													█															
Industry Innovation Prototyping & Evaluation	█																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT3 / <i>Common Operating Environment (COE)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Cyber Situational Understanding	2	2020	1	2022
Spectrum Awareness	2	2020	2	2021
Hardened Transport	4	2020	1	2021
Modular RF	4	2021	4	2024
Rainmaker	3	2022	1	2024
Applications Security-Containers (AppSec-C)	3	2022	3	2024
Information Trust	2	2024	2	2027
Industry Innovation Prototyping & Evaluation	4	2020	1	2028

Note

Industry Innovation Prototyping and Evaluation projects are awarded following Technical Exchange Meetings (TEM) and are continuous activities; Network Cross Functional Team (N-CFT) and Program Executive Office Command, Control, Communications-Tactical (PEO C3T) will reach out to industry partners in order to assess and demonstrate the latest emerging technologies which will reduce capability gaps and provide rapid software/hardware insertions into Programs of Record.

Changes from PB22 Schedule:

- Science and Technology (S&T) projects are evaluated based on ongoing forums with the S&T community. N-CFT and PEO C3T track changes to the S&T efforts, including but not limited to - titles, descriptions, Technology Readiness Level (TRL), planned program transition and transfer agreement status. N-CFT and PEO C3T utilize this information to prioritize the S&T projects by fiscal year.
- Modular RF, previously captured on the BT5 schedule, is now captured under funding project BT3, Common Operating Environment (COE); the effort's 6.4 RDTE start date accelerated to FY21 in support of future Capability Set development and fielding.
- Every Receiver A Sensor (ERASe)/Rainmaker is now referred to as Rainmaker, and the corresponding 6.4 RDTE start date accelerated to FY22 in support of future Capability Set development and fielding.
- Convergence Tools for Tactical Environments & Commander's Visualization is removed from the schedule and now known as the distinct efforts for Modular RF and ERASe/Rainmaker.
- Applications Security-Containers (AppSec-C) is planned to commence an effort in FY22 in support of COE.
- Information Trust is now projected to begin in FY24.

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT3 / <i>Common Operating Environment (COE)</i>

- Autonomous Cyber, previously captured on BT3 schedule, is now captured under funding project BT5, Integrated Tactical Network/Enterprise Network, and is projected to commence in FY24.
- The schedule for Industry Innovation Prototyping & Evaluation extends through FY27 to reflect the continuous nature of industry engagements.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army										Date: April 2022		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>				Project (Number/Name) BT5 / <i>Integrated Tactical Network/Enterprise Network</i>			
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
BT5: <i>Integrated Tactical Network/Enterprise Network</i>	-	21.953	19.705	20.902	-	20.902	20.994	21.160	21.166	21.373	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This funding line is directly aligned to the Army Network Cross Functional Team. Project BT5, Integrated Tactical Network/Enterprise Network (ITN/IEN), is directly aligned to the Army Network Modernization Strategy Line of Effort 1 (LOE 1), Unified Network. These efforts support advanced component development activities that are aligned to the Army's Tactical Network Capability Set development and fielding plans.

This project enables a converged Mission Command Network that operates seamlessly worldwide and in any environment. It includes the development of a standards-based network architecture that unifies enterprise and deployed network capabilities and features a unified transport layer, network operations and other enabling functions that allows integration of disparate networks. The Army network will provide resiliency through path diversity and dynamic routing to ensure tactical units can communicate in hostile environments. It will provide multiple ways to communicate and give commanders the ability to have a network that delivers the right information and data at the right time during operations. It fully incorporates cyber and electronic warfare capabilities that support the employment of the network as a weapon system.

FY 2023 funding will be used to inform design decisions for future tactical network capability sets in the areas of Aerial Tier, resilient wideband satellite communications capabilities, non-traditional waveforms, implementation of Automated Primary Alternate Contingency and Emergency (PACE) communications through evaluation and technical maturation. Funds also support identification, maturation, demonstration, and evaluation of Technology Readiness Level (TRL) 6+ systems and subsystem components including Cyber Electromagnetic Activities (CEMA) situational understanding and operations Interoperability functions. Successful solutions identified through evaluation in a high fidelity and realistic operating environment will be transitioned to Programs of Record for integration and fielding. Funds will also support integration with solutions identified in other Modernization Cross Functional Team (CFT) efforts to ensure network dependencies are addressed.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2021	FY 2022	FY 2023
Title: Project BT5: Integrated Tactical Network/Integrated Enterprise Network	21.608	18.768	19.697
Description: This funding is used to identify and acquire technologies to address gaps associated with LOE 1, Unified Network, for evaluation and demonstration in the overall Integrated Network. The Unified Network LOE enables a converged Mission Command Network that operates seamlessly worldwide and in any environment. This will require the creation of a standards-based network architecture that effectively integrates enterprise and deployed network capabilities across domains and environments, and features a unified transport layer that permits "plug and play" for specific network capabilities. LOE 1 addresses the following operational requirements: Converged Mission Command Network, Network Augmentation / Extension, and Synthetic Training Environment.			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022		
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT5 / <i>Integrated Tactical Network/Enterprise Network</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p><i>FY 2022 Plans:</i> Funds will be used for science and technology evaluation and prototyping solutions to support approved requirements documents and critical network modernization efforts to accelerate Next Generation Tactical radios, Air to ground integration, Secure LTE capabilities for mounted/ dismounted soldiers and solutions for a hardened, resilient network. Efforts will include evaluation of artificial intelligence and other advanced solutions for communications network processing, transport, and operations to support resiliency in a contested and congested environment. Funding will allow the Army to identify and prototype solutions to mature the network transport and gateway components of the Mission Partner Environment (MPE) and share network operations information through warfighting assessments and evaluations that will inform Capability Set 23 and beyond. Funds will also be used for innovative industry prototyping and evaluation effort associated with Technical Exchange Meetings to assess, demonstrate, prototype, and integrate emerging industry solutions to mature unified network capabilities to include integration of government and commercial Low Earth Orbit (LEO), Mid Earth Orbit (MEO) and Geosynchronous Earth Orbit (GEO) high throughput satellite communications. These efforts directly support the Army's tactical network acquisition strategy roadmap submitted to Congress.</p> <p><i>FY 2023 Plans:</i> Funds will be used to continue science and technology evaluation and prototyping solutions to support approved requirements documents and critical network modernization efforts to accelerate/integrate Next Generation Tactical radios, Air to ground integration, commercial 5G capabilities for mounted/dismounted soldiers and solutions for a hardened, resilient network. Efforts will include evaluation of artificial intelligence and other advanced solutions for communications network processing, transport, and operations to support resiliency in a distributed environment. Funding will allow the Army to identify and prototype solutions to mature the implementation of Automated Primary Alternate Contingency and Emergency (PACE) communications, network transport and gateway components of the Mission Partner Environment (MPE) and share network operations information through warfighting assessments and evaluations that will inform future capability sets. Funds will also be used for innovative industry prototyping and evaluation efforts associated with Technical Exchange Meetings (TEM) to assess, demonstrate, prototype, and integrate emerging industry solutions to mature unified network capabilities to include integration of commercial 5G and high throughput resilient wideband satellite communications. Requirements for Integrated Tactical Network/Integrated Enterprise Network will align with prioritization of science & technology and industry innovation efforts in support of Army Capability Set development.</p> <p><i>FY 2022 to FY 2023 Increase/Decrease Statement:</i> Increase is due to inflation</p>				
<i>Title:</i> Program Management		0.345	0.209	1.205

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT5 / <i>Integrated Tactical Network/Enterprise Network</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>Description: Program management includes overall management of program execution, major events, reporting, funding execution, and contract management. Includes participation in program planning and Integrated Product Team meetings with key stakeholders including the Network Cross Functional Team (N-CFT).</p> <p>FY 2022 Plans: Funds will be used to provide overall management in support of Unified Network Transport efforts, including contractor personnel and contract management support via Army Contracting Command.</p> <p>FY 2023 Plans: Funds will be used to provide overall management in support of Unified Network Transport efforts, including contractor personnel and contract management support via Army Contracting Command.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Increase is due to decision to separate out program management costs for improved visibility and slight increase in overall program costs.</p>			
<p>Title: FY22 SBIR/STTR Transfer</p> <p>Description: FY22 SBIR/STTR Transfer in accordance with Title 15 USC ?638</p> <p>FY 2022 Plans: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638</p>	-	0.728	-
Accomplishments/Planned Programs Subtotals	21.953	19.705	20.902

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

Remarks
N/A

D. Acquisition Strategy
Network Cross Functional Team (N-CFT) will coordinate on technologies to be evaluated with appropriate Program Management (PM) offices where there is an opportunity for technology insertion. Technologies that are determined to address technology gaps and require further evaluation will be documented in a Product Plan that authorizes a plan of execution for each capability being pursued. The various prototyping technologies will be pursued via competitively awarded contracts using

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT5 / <i>Integrated Tactical Network/Enterprise Network</i>

best value source selection procedures. Identified Technology Readiness Level (TRL) 6 technologies will be matured, demonstrated, tested, and evaluated in realistic environments to achieve TRL 7. Selected technologies will be integrated into existing Programs of Record. A Transition Agreement (TA) is completed between the receiving Program Executive Office (PEO) and the Science and Technology (S&T) community no later than halfway between the project start date and the project's first anticipated transition of any product(s) to a PEO/PM.

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

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT5 / <i>Integrated Tactical Network/Enterprise Network</i>
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Management Services (\$ 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			
Project Management Office Support	MIPR	CCDC/BAH/ACC/NIWC-LANT : APG, MD/North Charleston, SC	0.019	0.345	Jan 2021	0.209	Nov 2021	1.205	Dec 2022	-		1.205	0.000	1.778	-
SBIR/STTR Transfer	TBD	TBD : TBD	-	-		0.728		-		-		-	0.000	0.728	-
Subtotal			0.019	0.345		0.937		1.205		-		1.205	0.000	2.506	N/A

Remarks
FY 2021 cost data updated to reflect actuals.

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			
Science & Technology (S&T) Maturation - Soldier Authentication	Various	CCDC/FlexTech Alliance : APG, MD	2.029	1.971	Mar 2021	-		-		-		-	0.000	4.000	-
S&T Maturation - INB2	Various	CodeMettle : Atlanta, GA	4.021	3.508	Nov 2020	-		-		-		-	0.000	7.529	-
S&T Maturation - AppSecC	MIPR	CCDC : APG, MD	2.800	-		-		-		-		-	0.000	2.800	-
S&T Maturation - TSM IC	Various	CCDC/BAH/CACI : APG, MD/Mclean, VA/Arlington, VA	1.008	-		-		-		-		-	0.000	1.008	-
S&T Maturation - Next Generation High Frequency	TBD	CCDC/MIT-LL : APG, MD/Lexington, MA	-	3.696	Dec 2020	-		-		-		-	0.000	3.696	-
S&T Maturation - Non-traditional Waveforms	TBD	CCDC/BAH/CACI : APG, MD	-	1.454	Dec 2020	-		-		-		-	0.000	1.454	-
S&T Maturation - Protected Comms for Manned-Unmanned Teaming	TBD	CCDC/BAH/CACI : APG, MD	-	2.500	Jan 2021	-		-		-		-	0.000	2.500	-

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

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT5 / <i>Integrated Tactical Network/Enterprise Network</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			
S&T Maturation - Resilient Wideband SATCOM Interference Cancellation	TBD	CCDC/BAE : APG, MD/Burlington, MA	-	2.000	Jun 2021	-		-		-		-	0.000	2.000	-
S&T Maturation - CMOSS Mounted Form Factor	TBD	CCDC/Polaris Alpha/Spectranetix : APG, MD/Sunnyvale, CA	-	1.355	Apr 2021	-		-		-		-	0.000	1.355	-
Science & Technology (S&T) Maturation Prototyping & Evaluation	TBD	DEVCOM C5ISR / PEO C3T : APG, MD	-	-		14.255	Nov 2021	11.755	Dec 2022	-		11.755	0.000	26.010	-
Industry Innovation - C5ISR Modular Open Suite of Standards	MIPR	Trellisware/Spectranetix : San Diego, CA/Sunnyvale, CA	1.584	3.598	Oct 2021	-		-		-		-	0.000	5.182	-
Industry Innovation - Intra-CP Node Wireless	MIPR	L3Harris/BATS, Inc : Rochester, NY/Indianapolis, IN	-	1.526	Sep 2021	-		-		-		-	0.000	1.526	-
Industry Innovation Prototyping & Evaluation	TBD	TBD : TBD	0.261	-		4.513	Feb 2022	7.942	Feb 2023	-		7.942	0.000	12.716	-
Subtotal			11.703	21.608		18.768		19.697		-		19.697	0.000	71.776	N/A

Remarks
FY 2021 cost data updated to reflect actuals.

	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	11.722	21.953	19.705	20.902	-	20.902	0.000	74.282	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT5 / <i>Integrated Tactical Network/Enterprise Network</i>

Event Name	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				
Resilient Wideband SATCOM - OTM & ATH																																
High-Altitude: WGS Ka Band Surrogate (HAWKS)																																
Autonomous Cyber																																
Industry Innovation Prototyping & Evaluation																																

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT5 / <i>Integrated Tactical Network/Enterprise Network</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Application Security with Containers (AppSec-C)	2	2020	2	2021
Integrated Network Operations Battalion and Below (INB2)	2	2020	2	2022
Tactical Scalable Mobile Ad-hoc Networking (MANET) Interference Cancellation	4	2020	2	2021
Tactical IdAM -- Soldier Authentication	2	2020	4	2021
C5ISR/EW Modular Open Suite of Standards (CMOSS)	4	2020	1	2021
Protected Comms for Manned-unmanned teaming (MUM-T)	1	2021	1	2023
Next Generation High Frequency (NGHF)	1	2021	1	2025
Non-traditional Waveforms	1	2021	1	2026
CMOSS Mounted Form Factor (CMFF)	2	2021	1	2022
Aerial Tier Experimentation	2	2022	2	2024
CMOSS Reference Architecture	2	2022	2	2023
Secured Handheld on Assured Resilient Networks at the Tactical Edge (SHARE)	2	2022	2	2023
Resilient Wideband SATCOM Interference Cancellation	3	2021	3	2022
Resilient Wideband SATCOM - OTM & ATH	2	2024	2	2026
High-Altitude: WGS Ka Band Surrogate (HAWKS)	2	2026	2	2027
Autonomous Cyber	2	2024	2	2027
Industry Innovation Prototyping & Evaluation	4	2020	4	2027

Note

Industry Innovation Prototyping and Evaluation projects are awarded following Technical Exchange Meetings (TEM) and are continuous activities; Network Cross Functional Team (N-CFT) and Program Executive Office Command, Control, Communications-Tactical (PEO C3T) will reach out to industry partners in order to assess and demonstrate the latest emerging technologies which will reduce capability gaps and provide rapid software/hardware insertions into Programs of Record.

Changes from PB22 Schedule:

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604541A / <i>Unified Network Transport</i>	Project (Number/Name) BT5 / <i>Integrated Tactical Network/Enterprise Network</i>
<ul style="list-style-type: none"> - Science and Technology (S&T) projects are evaluated based on ongoing forums with the S&T community. N-CFT and PEO C3T track changes to the S&T efforts, including but not limited to - titles, descriptions, Technology Readiness Level (TRL), planned program transition and transfer agreement status. N-CFT and PEO C3T utilize this information to prioritize the S&T projects by fiscal year. - Integrated Network Operations Battalion and Below (INB2) continues technology integration efforts into mid-FY22. - Tactical Identify Access Management (IdAM)-Soldier Authentication 6.4 RDTE efforts concluded in FY21. - The schedule for Next Generation High Frequency (NGHF) is inclusive of multiple sub-efforts completing in 1QFY25. - The schedule for Non-traditional Waveforms (NTW) is inclusive of multiple sub-efforts. - Aerial Tier Networking is renamed Aerial Tier Experimentation to better specify the nature of the effort commencing in FY22. - CMOSS Reference Architecture was identified as a 6.4 RDTE effort commencing in FY22. - Secured Handheld on Assured Resilient Networks at the Tactical Edge (SHARE) was identified as a 6.4 RDTE effort commencing in FY22. - Protected SATCOM is renamed Resilient Wideband SATCOM Interference Cancellation to specify the nature of the effort completing in FY22. - Resilient Wideband SATCOM - On-the-Move & At-the-Halt is added to the schedule and is projected to start in FY24. - WGS Ka-Band Surrogate is renamed High Altitude: WGS Ka-Band Surrogate (HAWKS) and is projected to start in FY26. - Autonomous Cyber, previously captured on BT3 schedule, is now captured under funding project BT5, Integrated Tactical Network/Enterprise Network, and is projected to commence in FY24. - Geospatial Repository & Data Management (GRiD) Tactical is removed from the schedule; the effort does not fall under the purview of PEO C3T. - Narrowband SATCOM is removed from the schedule pending future technology maturation. - Modular RF, previously captured on BT5 schedule, is now captured under funding project BT3, Common Operating Environment (COE). - The schedule for Industry Innovation Prototyping & Evaluation extends through FY27 to reflect the continuous nature of industry engagements. 		