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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Air Force **Date:** March 2023

Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605031F / <i>Joint Tactical Network (JTN)</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	0.452	0.000	0.452	3.595	3.684	3.760	3.896	0.000	15.387
655068: <i>Joint Tactical Radio System (JTRS)</i>	-	0.000	0.000	0.452	0.000	0.452	3.595	3.684	3.760	3.896	0.000	15.387
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note

All continuing JTN efforts are funded in Army Program Element (PE) 0605031A (JTN), Navy PE 0605031N (shared), Air Force PE 0605031F (shared) and United States Marine Corps (USMC) Marine Corps Communications Systems MCPC 112107. As part of the Joint Enterprise Network Manager (JENM) Joint Program budget strategy, the Air Force and Army budget for approximately one-third each of the total Program funds for JENM efforts. The Navy and USMC combined funding equals the other one-third of the JENM Program funding. Prior to the year of execution, Navy and Air Force funding is consolidated in the Army PE (0605031A) and software sustainment funds are realigned between Research, Development, Test and Evaluation (RDT&E) (EF5) and Other Procurement Army (OPA) (B99318) to support the Joint Program acquisition strategy. USMC funding will be provided on an annual basis via Military Interdepartmental Purchase Request (MIPR).

A. Mission Description and Budget Item Justification

The Joint Program Executive Office JPEO Joint Tactical Radio System JTRS Acquisition Decision Memorandum ADM of 11 Jul 2012 authorized the JPEO JTRS to transition to the Joint Tactical Network JTN program, which transferred JTRS MDAP programs of record to the Services, and renamed the JTRS Network Enterprise Domain NED program to the JTN program, which transitioned to the Army. The Joint Tactical Networking Center JTNC ADM of 20 Jan 2014 officially chartered the JTNC, assigned responsibility for the development and sustainment of JENM to the Program Manager PM JTN under PdM JENM, and transitioned waveform development and sustainment to the Services. The Army Program Executive Office PEO Command Control Communications Tactical C3T Memos of 25 Jun 2015 transferred all program, development, and configuration control of JENM from Product Manager PdM JENM under PM JTN to PdM WIN-T INC 3 which became PdM Tactical Cyber Network Operations TCNO under PM Tactical Network formally PM WIN-T. PdM TCNO now falls under PM Integration, Interoperability & Services I2S , within PEO C3T.

The Joint Enterprise Network Manager JENM software provides a single, converged network management tool allowing the Warfighter to plan, configure, load, and manage the Joint Services' Tactical Radios and their networks in the field - a capability not available in legacy planning systems. JENM funding supports several types of tactical radios, such as the Manpack and Rifleman, enabling them to utilize Mobile Ad Hoc Networking MANET and other waveforms to include: Mobile User Objective System MUOS waveform, Demand Assigned Multiple Access DAMA Satellite Communications SATCOM , Integrated Waveform IW , and Single Channel Ground and Airborne Radio System SINCGARS waveform. Using its Over-the-Air-Management OTAM functionality, JENM provides the Commander the ability to quickly reconfigure critical networks. JENM enhances the S6's ability to conduct Course of Action COA Analysis and the Military Decision Making Process MDMP , providing commanders critical information regarding their ability to communicate.

FY 2024 funding will continue radio planner development efforts to design, engineer, integrate, and test planning and management capabilities for the Tactical Radio network in support of the Advanced Networking Waveform ANWf. Continued development provides further integration of the Integrated Tactical Network ITN and

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Network Management of its emerging systems to enable Soldiers the ability to effectively manage the ITN. Radio planner development efforts will also support MUOS Waveform Planning Continuing System Improvements and rapid provisioning of MUOS end-user terminals.

Planning applications are deployed on, and critically tied to, the Ruggedized Application Platform - Tactical Radios RAP-TR hardware from the Division to Company level.

This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	0.000	0.000	3.509	0.000	3.509
Current President's Budget	0.000	0.000	0.452	0.000	0.452
Total Adjustments	0.000	0.000	-3.057	0.000	-3.057
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-3.057	0.000	-3.057

Change Summary Explanation

FY2024 funds \$3.057M have been realigned to the Army (PE 0605031A), per the Joint Service Agreement prior to PB submission, the remaining \$0.452M funding in this line will also be realigned according to the Joint Service Agreement

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Joint Tactical Networks JTN - Product Development	0.000	0.000	0.452	0.000	0.452
Description: Product Development Efforts					
FY 2023 Plans: FY2023 funds have been realigned to the Army funding line PE 0605031A					
FY 2024 Base Plans:					

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p>The funding will continue support to JENM design, engineering, integration, and test of planning and management application for the Tactical Radio network. Support to align with Army Network Modernization to provide further integration of the lower and mid-tier Network Management for Integrated Tactical Network ITN to enable Soldiers the ability to manage the entire consolidated tactical network in conjunction with network elements managed by Sailors, Marines, and Airmen. Development funding will also support completion of MUOS waveform planning simplification and rapid provisioning of MUOS end-user terminals for joint service requirements.</p> <p>JENM planning applications are deployed on, and critically tied to the RAP-TR hardware from Division to the Company level.</p> <p>FY2024 funds have been realigned to the Army (PE 0605031A), per the Joint Service Agreement, any remaining funding in this line will also be realigned according to the Joint Service Agreement.</p> <p>FY 2024 OCO Plans: N/A</p> <p>FY 2023 to FY 2024 Increase/Decrease Statement: FY2024 funds have been realigned to the Army (PE 0605031A), per the Joint Service Agreement, remaining funding in this line will also be realigned according to the Joint Service Agreement.</p>					
Accomplishments/Planned Programs Subtotals	0.000	0.000	0.452	0.000	0.452

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

N/A

Remarks
PE 0605031A contains only the JTN Product Manager (PdM) Waveforms and PdM Tactical Cyber Network Operations (TCNO) JENM RDT&E funding.

JENM is funded using a Joint budget strategy. Each Military Department (MILDEP) budgets for approximately one-third of the total program RDT&E requirements for joint efforts. Out-year funding is programmed in PE 0605031A by the Army, PE 0605031N by the Navy, and PE 0605031F by the Air Force. USMC funding will be provided on an annual basis via Military Interdepartmental Purchase Request (MIPR). Prior to submission of the President's Budget, the funding from Navy (PE 0605031N) and Air Force (PE 0605031F) is consolidated with Army (PE 0605031A) for execution per the Office of the Secretary of Defense (OSD) direction. Funds are realigned from Navy (PE 0605031N) and Air Force (PE 0605031F) to Army (PE 0605031A) as per the JTN (JENM) Acquisition Program Baseline (APB) and Tri-Service Funding agreement.

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R-1 Program Element (Number/Name)
PE 0605031F / *Joint Tactical Network (JTN)*

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

JENM and baseline planning applications are deployed on the RAP-TR hardware from the Division to Company level. JENM Logistics & Training capabilities are captured under the Joint Network Management System OPA-2 line (JNMS B99318).

E. Acquisition Strategy

Joint Tactical Network Center (JTNC) Acquisition Decision Memorandum (ADM) (July 2012) (JENM Supporting Role). Per the December 2014 Joint Tactical Network (JTN) Select Acquisition Report (SAR), JTN was 90% expended and changed to inactive. Defense Acquisition Management Information Retrieval (DAMIR) reflected the inactive status on 3 June 2015 JTN APB (13 October 2015) (JENM Supporting Role).

Product Manager for TCNO manages a Government Owned, Government Operated (GOGO) Software Development and Integration Facility which employs competitive contracting strategies for software development and sustainment of the network manager components to ensure warfighter access to the best technology and innovative capabilities while addressing emerging threats and future requirements via an affordable, operationally effective, and timely framework.

The Army will continue a radio planner effort that will plan, manage, and provision capabilities for simplified workflow based on planning solutions to rapidly meet emerging capability requirements stemming from Network Cross Functional Team (CFT) initiatives and directed requirements.

JENM will continue system improvements for JENM v3.5.X development, which includes upgrades of MUOS, upgrades to JENM Public Key Infrastructure (PKI) certificate management, and cyber enhancements.

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Air Force		Date: March 2023
Appropriation/Budget Activity 3600 / 5	R-1 Program Element (Number/Name) PE 0605031F / <i>Joint Tactical Network (JTN)</i>	Project (Number/Name) 655068 / <i>Joint Tactical Radio System (JTRS)</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Joint Tactical Network</i>				
JENM v3.4 Logistics & Training Support	4	2022	1	2023
JENM v3.4 Sunset	1	2023	1	2023
JENM v3.5 Sunset	4	2026	4	2026
APB Expiration	4	2026	4	2026
JENM v3.5 Logistics & Training Support	4	2022	4	2026