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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Army **Date:** March 2024

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0305179A / Integrated Broadcast Service (IBS)
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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	-	9.426	9.456	5.701	-	5.701	1.672	1.691	1.710	1.727	Continuing	Continuing
EF4: Integrated Broadcast System	-	9.426	9.456	5.701	-	5.701	1.672	1.691	1.710	1.727	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Joint Program Office (JPO) for Integrated Broadcast Service (IBS) Terminals supports the Joint Services and the Special Operations Command (SOCOM). The JPO is responsible for coordinating modernization and sustainment of IBS terminals compatible with the UHF SATCOM IBS broadcasts in support of Air and Missile Defense, Long Range Precision Fires, Soldier Lethality, and Network Command, Control, Communications and Intelligence Cross Functional Teams, and Tactical Intelligence Targeting Access Node. The IBS transmits worldwide time-sensitive tactical and strategic intelligence and targeting data to all echelons of Joint Service operational users. The Joint Tactical Terminal (JTT) is the official IBS system and ensures continued IBS interoperability to a variety of tactical producers and consumers across the Joint Services. The transmit/receive-capable JTT systems currently consist of the JTT-Senior and JTT-IBS configurations. The JPO is executing updates to the JTT terminal to incorporate Mobile User Objective System (MUOS)-Wideband Code Division Multiple Access (WCDMA) elements based on modernization requirements.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	9.926	9.456	5.835	-	5.835
Current President's Budget	9.426	9.456	5.701	-	5.701
Total Adjustments	-0.500	0.000	-0.134	-	-0.134
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.500	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.134	-	-0.134

Change Summary Explanation

The FY25 funding change from the previous PB to the current PB reflects an Army approved minor reduction.

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Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0305179A / <i>Integrated Broadcast Service (IBS)</i>				Project (Number/Name) EF4 / <i>Integrated Broadcast System</i>			
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
EF4: <i>Integrated Broadcast System</i>	-	9.426	9.456	5.701	-	5.701	1.672	1.691	1.710	1.727	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Joint Program Office (JPO) for Integrated Broadcast Service (IBS) Terminals supports the Joint Services and the Special Operations Command (SOCOM). The JPO is responsible for coordinating modernization and sustainment of IBS terminals compatible with the UHF SATCOM IBS broadcasts in support of Air and Missile Defense, Long Range Precision Fires, Soldier Lethality, and Network Command, Control, Communications and Intelligence Cross Functional Teams and Tactical Intelligence Targeting Access Node. The IBS transmits worldwide time-sensitive tactical and strategic intelligence and targeting data to all echelons of Joint Service operational users. The Joint Tactical Terminal (JTT) is the official IBS system and ensures continued IBS interoperability to a variety of tactical producers and consumers across the Joint Services. The transmit/receive-capable JTT systems currently consist of the JTT-Senior and JTT-IBS configurations. The JPO is executing updates to JTT systems to incorporate Mobile User Objective System-Wideband Code Division Multiple Access (MUOS-WCDMA) based on modernization requirements. The IBS network uses Type-1 encryption, Common Interactive Broadcast (CIB), and Common Message Format (CMF).

FY 2025 RDTE Dollars in the amount of \$5.701 million will be used for the continuation of Vendor terminal software development and porting, vendor testing and evaluation, independent testing, integration and certification by government and contracting agencies (JITC, NSA, Navy, General Dynamics) in support of IBS and MUOS-WCDMA modernization efforts.

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

	FY 2023	FY 2024	FY 2025
Title: Program Management	0.575	0.617	0.653
Description: Management Support			
FY 2024 Plans: Managerial oversight of ongoing JTT-NG activities, to include testing and certification, validated production and ordering, to ensure adherence to schedule, cost and performance.			
FY 2025 Plans: Continued managerial oversight of JTT-NG software modernization activities, to include verification and validation testing, engineering support, certification, and software deployment planning to ensure adherence to schedule, cost and performance.			
FY 2024 to FY 2025 Increase/Decrease Statement:			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2023	FY 2024	FY 2025
FY2025 level of effort anticipated to remain stable.			
Title: Test and Certification Description: Engineering and Testing Support FY 2024 Plans: Will continue engineering and testing support to obtain operational certification from external agencies to include JITC, Navy SSC PAC, and NSA FY 2025 Plans: Will conclude engineering and testing support to obtain operational certification from external agencies to include JITC, Navy SSC PAC, and NSA. FY 2024 to FY 2025 Increase/Decrease Statement: Funding change is consistent with the planned lifecycle of this effort.	1.926	1.626	1.503
Title: Modernization Efforts Description: Joint Tactical Terminal (JTT) and Integrated Broadcast Services (IBS) modernization efforts. FY 2024 Plans: Funds are required to continue Joint Tactical Terminal (JTT) and Integrated Broadcast Services (IBS) modernization efforts to include design reviews, MUOS SW development and porting, SW prototyping, integration and testing, SW configuration management, IBS-LEO/IBS-Alt path upgrades and support to MUOS testing, MIL-STD compliance & certification. FY 2025 Plans: Funds are required to conclude Joint Tactical Terminal (JTT) and Integrated Broadcast Services (IBS) modernization efforts to include design reviews, MUOS SW development and porting, SW prototyping, integration and testing, SW configuration management, IBS-LEO/IBS-Alt path upgrades and support to MUOS testing, MIL-STD compliance & certification. FY 2024 to FY 2025 Increase/Decrease Statement: Funding decrease for modernization efforts due to final year of contracted engineering requirements.	6.925	7.213	3.545
Accomplishments/Planned Programs Subtotals	9.426	9.456	5.701

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2025</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u>	<u>Total Cost</u>
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	
• V29600: <i>JTT/CIBS-M</i>	2.352	8.543	9.221	-	9.221	7.212	6.904	0.490	0.494	Continuing	Continuing

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0305179A / <i>Integrated Broadcast Service (IBS)</i>	Project (Number/Name) EF4 / <i>Integrated Broadcast System</i>

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks
 FY 2025 Base procurement dollars in the amount of \$9.221 million supports transition to organic hardware facilitization and sustainment, software deployment support, contractor engineering, logistics support and fielding support documentation for all terminals.

D. Acquisition Strategy

The Integrated Broadcast Service (IBS) was designed to consolidate legacy broadcasts into an interoperable set of broadcasts that can carry threat warning and situational data to both users and producers. The requirement for IBS is documented in the IBS Operational Requirements Document (ORD) (6 June 2018) and the JTT ORD (25 April 2018). Subsequently, the IBS and JTT ORDs were consolidated into one document, the IBS Information Systems- Capability Development Document (IS-CDD) on 4 Feb 2021. The JTT program is an acquisition effort to provide common tactical terminals capable of receiving and transmitting into the IBS UHF broadcasts. The JTT-Next Generation (JTT-NG) Block 1 effort establishes the necessary hardware and software to meet upgraded technological standards. To support continued IBS architecture modernization efforts, JTT-NG will incorporate MUOS and IBS upgrades into the software baseline to keep pace with evolving SATCOM requirements, IBS operational needs, and obsolescence via the developmental Block 2 effort. Additional requirements from the IBS Executive Agent include enhancements to JTT-NG software and firmware to mitigate from legacy to updated SATCOM constellations, while also enhancing the IBS-A broadcast to modify the modulation, Communication Security (COMSEC), waveform, and support for Low Earth Orbiting (LEO) SATCOM integration.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 7				PE 0305179A / Integrated Broadcast Service (IBS)				EF4 / Integrated Broadcast System							
Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Management Support	Allot	PM IS&A : APG, MD; Fort Huachuca, AZ	0.150	0.575	Nov 2022	0.617	Nov 2023	0.653	Nov 2024	-		0.653	Continuing	Continuing	-
Subtotal			0.150	0.575		0.617		0.653		-		0.653	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
IBS Modernization	SS/CPFF	DRS; Dayton, OH : DRS; Dayton, OH	5.378	6.925		7.213	Feb 2024	3.545	Feb 2025	-		3.545	Continuing	Continuing	-
Subtotal			5.378	6.925		7.213		3.545		-		3.545	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Integration and Testing of JTT fleet Modernization	MIPR	JITC : Fort Huachuca, AZ; APG,MD, SSC PAC, GD-Scottsdale	1.970	1.926	Jan 2023	1.626	Jan 2024	1.503	Jan 2025	-		1.503	Continuing	Continuing	-
Subtotal			1.970	1.926		1.626		1.503		-		1.503	Continuing	Continuing	N/A
Project Cost Totals			7.498	9.426		9.456		5.701		-		5.701	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Army		Date: March 2024
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Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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
Next Gen: JITC Testing and Certification					▲ 1																							
Next Gen: NSA Testing and Certification						▲ 2																						
Next Gen IBS Terminals HW and Initial SW Delivery						■																						
IBS Modernization Development																												
IBS Modernization Testing and Certification																												
IBS Modernization SW Delivery											■																	
Transition to Sustainment																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Army		Date: March 2024
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0305179A / <i>Integrated Broadcast Service (IBS)</i>	Project (Number/Name) EF4 / <i>Integrated Broadcast System</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Next Gen: JITC Testing and Certification	2	2024	2	2024
Next Gen: NSA Testing and Certification	3	2024	3	2024
Next Gen IBS Terminals HW and Initial SW Delivery	3	2024	3	2024
IBS Modernization Contract Award	4	2022	4	2022
IBS Modernization Development	4	2022	4	2025
IBS Modernization Testing and Certification	1	2023	4	2029
IBS Modernization SW Delivery	4	2025	4	2025
Transition to Sustainment	3	2022	1	2028
Prototype	2	2030	2	2031