

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0607313A / <i>Electronic Warfare Development</i>
---	---

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	-	-	-	5.673	-	5.673	-	-	-	-	-	-
CE2: <i>Prophet</i>	-	-	-	5.673	-	5.673	-	-	-	-	-	-

Note
 Funding for PE 0607313A / Electronic Warfare Development (BA7) / Project CE2 Prophet is a realignment from PE 0304270A / Project EW5 Electronic Warfare Development (BA5).

A. Mission Description and Budget Item Justification
 This Program Element encompasses operational system development for tactical Electronic Warfare (EW) terrestrial (ground) employment applications. The systems under this program provide the Army with the capability to detect, identify, locate, collect/process, report, and engage (disrupt, degrade or deny) hostile forces to prevent their effective use of communications & non-communications networks, counter-mortar/counter-battery radars, surveillance radars, electronically fused munitions and other enemy threats using the Electro-Magnetic Spectrum (EMS).

Project CE2 supports the Prophet Enhanced Program of Record, the Army's current terrestrial SIGINT system. Funding provides for development of relevancy efforts for state-of-the-art Signals Intelligence (SIGINT) exploitation to pace near peer and emerging enemy threat signals as well as engineering to mitigate component obsolescence. Prophet Enhanced's primary mission is to provide 24-hour Situation Development and Information Superiority to the supported maneuver brigade enabling the most effective engagement of enemy forces. Prophet Enhanced provides a modular, scalable, open architecture based system solution optimized for ease of use in a variety of configurations.

FY 2022 funds the Prophet Enhanced efforts (Project CE2); Project CE2 is not a new start, this funding supports the Prophet Enhanced Program of Record transitioning from Engineering and Manufacturing Development (PE 0304270A / EW5) to Operational System Development (CE2).

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Army	Date: May 2021
---	-----------------------

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0607313A / <i>Electronic Warfare Development</i>
---	---

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	5.673	-	5.673
Total Adjustments	0.000	0.000	5.673	-	5.673
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	5.673	-	5.673

Change Summary Explanation

FY2022 CE2 zero sum realignment of \$6.212 million from PE 0304270A/EW5 (BA5) to PE 0607313A/CE2 (BA7) to support Prophet Enhanced. FY2022 budget decrease of \$0.539 million to PE 0607313A/CE2.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607313A / <i>Electronic Warfare Development</i>	Project (Number/Name) CE2 / <i>Prophet</i>
--	---	--

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
CE2: <i>Prophet</i>	-	-	-	5.673	-	5.673	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

Note

Funding for PE 0607313A / Electronic Warfare Development (BA7) / Project CE2 Prophet is a realignment from PE 0304270A / Project EW5 Electronic Warfare Development (BA5).

A. Mission Description and Budget Item Justification

Project CE2 supports the Prophet Enhanced Program of Record, the Army's current fielded terrestrial SIGINT system. Funds provide for development and integration of signal of interest Technical Insertion engineering for Next Generation Signals and state-of-the-art Signals Intelligence (SIGINT) exploitation techniques to increase the capabilities of Prophet Enhanced, enabling the system to pace near peer and emerging enemy threat signals. Additionally funds provide for efforts to include, but not limited to engineering, development and testing to mitigate component obsolescence. The Prophet Enhanced is the tactical commander's organic ground-based SIGINT/ Electronic Warfare system for the Multi-Function Teams (MfTs) organic to the Brigade Combat Teams (BCTs) and Expeditionary-Military Intelligence Brigades (E-MIBs). Its primary mission is to provide 24-hour Situation Development and Information Superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. Prophet Enhanced provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations. It also incorporates product modification, integration, evaluation and demonstration events of equipment for rapid integration of Technical Insertions (TI) and product development to ensure operational relevance.

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

	FY 2020	FY 2021	FY 2022
<p>Title: Program Management</p> <p>Description: Engineering, technical and programmatic oversight of the development of next generation signals.</p> <p>FY 2022 Plans: Funds will provide for matrix and contractor system engineering and program management support for the Prophet program.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Zero sum funding realignment from PE 0304270A Project EW5.</p>	-	-	0.567
<p>Title: Signal of Interest upgrades</p> <p>Description: The Signal Environment that Prophet Systems exploit is constantly contested with evolving threats. This environment creates gaps in Prophet's ability to collect and exploit these signals. Prophet must integrate the latest emerging Intelligence Community (IC), commercial solutions and capabilities from other sources to remain relevant against these numerous, key, and high-priority emerging threats.</p>	-	-	2.553

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607313A / <i>Electronic Warfare Development</i>	Project (Number/Name) CE2 / <i>Prophet</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
<p><i>FY 2022 Plans:</i> Development and integration of Next Generation SIGINT capabilities into the Prophet SIGINT Software (PS2). The new signals and libraries of signals address key exploitation gaps in the Prophet system's ability to collect against key tactical near peer signals and emerging threats.</p> <p><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> Zero sum funding realignment from PE 0304270A Project EW5.</p>			
<p><i>Title:</i> Componnet Obsolescence Engineering</p> <p><i>Description:</i> Due to the highly technical nature of Prophet Enhanced, over the course of time, many components on the system are no longer produced or supported, which necessitates non-recurring engineering (NRE) to integrate and incorporate new and replacement parts.</p> <p><i>FY 2022 Plans:</i> Including, but not limited to the obsolescence engineering for components on the Prophet Enhanced systems.</p> <p><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> Zero sum funding realignment from PE 0304270A Project EW5.</p>	-	-	2.553
Accomplishments/Planned Programs Subtotals	-	-	5.673

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• BZ9751: <i>SPECIAL PURPOSE SYSTEMS</i>	4.000	48.979	3.739	-	3.739	-	-	-	-	-	-

Remarks

D. Acquisition Strategy
The Prophet Research and Development (R&D) Acquisition Strategy is structured to maintain operational relevancy of Prophet Enhanced systems in a dynamic threat environment while reducing risk and streamlining business and engineering processes. Contracting activities are to maintain SIGINT relevance and complete Technical Insertion (TI) to Prophet Enhanced systems to pursue the latest Signals of Interest and design against obsolescence. The Technical Insertion (TI) contract supports R&D and other developmental work.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607313A / <i>Electronic Warfare Development</i>	Project (Number/Name) CE2 / <i>Prophet</i>
--	---	--

Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	C/Various	PM Electronic Warfare & Cyber : APG, MD	-	-		-		0.567	Nov 2021	-		0.567	0.000	0.567	-
Subtotal			-	-		-		0.567		-		0.567	0.000	0.567	N/A

Remarks
Efforts will be accomplished via a combination of Matrixed Government Support as well Systems Engineering and Technical Assistance (SETA) via competitive contract #W15P7T-10-D-D421.

Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Signal of Interest Upgrades	SS/CPFF	GD Mission Systems and Various Supporting Organizations : Scottsdale, AZ	-	-		-		2.553	Dec 2021	-		2.553	0.000	2.553	-
Component Obsolence Engineering	SS/CPFF	GD Mission Systems and Various Supporting Organizations : Scottsdale, AZ	-	-		-		2.553	Dec 2021	-		2.553	0.000	2.553	-
Subtotal			-	-		-		5.106		-		5.106	0.000	5.106	N/A

Remarks
Efforts will be accomplished contract # W56KGY-17-D-0006 to ensure systems remain relevant against emerging enemy threat signals and that any components of the system that become obsolete or are no longer produced can be re-engineered.

	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		-	-	0.000	5.673	-	5.673	0.000	5.673	N/A

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Army			Date: May 2021		
Appropriation/Budget Activity 2040 / 7		R-1 Program Element (Number/Name) PE 0607313A / <i>Electronic Warfare Development</i>		Project (Number/Name) CE2 / <i>Prophet</i>	

Event Name	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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
Prophet Enhanced Technical Insertion																												
Customer Testing (2021)					■																							
Customer Testing (2023)													■															
Customer Testing (2025)																					■							
Prophet Enhanced modification and fielding																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0607313A / <i>Electronic Warfare Development</i>	Project (Number/Name) CE2 / <i>Prophet</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Prophet Enhanced Technical Insertion	1	2020	3	2028
Customer Testing (2021)	2	2021	3	2021
Customer Testing (2023)	2	2023	3	2023
Customer Testing (2025)	2	2025	3	2025
Prophet Enhanced modification and fielding	3	2017	4	2021