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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0304270A / Electronic Warfare Development							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	10.801	8.961	12.686	-	12.686	15.598	14.223	14.059	14.324	Continuing	Continuing
EW5: Electronic Warfare Development - MIP	-	6.079	4.426	6.660	-	6.660	7.723	5.867	5.188	5.285	Continuing	Continuing
EW6: ARAT-TSS - MIP	-	4.722	4.535	6.026	-	6.026	7.875	8.356	8.871	9.039	Continuing	Continuing

A. Mission Description and Budget Item Justification

FY 2016 budget request funds Electronic Warfare Development. This program element (PE) encompasses engineering and manufacturing development for tactical electronic warfare (EW). EW encompasses the development of tactical EW equipment and systems mounted in both ground and air vehicles. The systems under this program provides the Army with the capability to degrade or deny hostile forces the effective use of their communications, countermortar/counterbattery radars, surveillance radars, infrared/optical battlefield surveillance systems and electronically fused munitions. Existing Army EW systems must be replaced or upgraded to maintain their capability in the face of threats. Prophet Enhanced (PE) is the current system under the Prophet Ground acquisition program. 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. PE provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations (Stationary-Fixed, Mobile and Manpack). The Army Reprogramming Analysis Team (ARAT) is a Department of the Army established project to develop techniques, methods, tools and architecture to reprogram mission software embedded in Army Electronic Warfare (EW) systems, Force Protection Systems (FPS), and Target Sensing Systems (TSS) in response to changes in threat signatures. ARAT Research and Development enables continuous development of: 1) automated threat analysis tools to rapidly detect (flag) threat changes within intelligence systems, 2) tools to minimize the time to develop Electronic Warfare (EW) Mission Software and Products (MSP) for both air and ground EW systems, 3) tools and technology to minimize the time required to test and validate MSPs, 4) improved communications conduits to transmit mission software changes to field users, and 5) enhanced mission-software uploading tools. These efforts allow for rapid threat analysis, simulation, mission software development, distribution and uploading of mission software changes directly to the supported Soldier in the field. The Army Reprogramming Analysis Team (ARAT) project will develop, test and equip an Army-wide infrastructure capable of rapidly reprogramming electronic combat software embedded in offensive and defensive weapon systems.

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Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)		R-1 Program Element (Number/Name) PE 0304270A / Electronic Warfare Development			
B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	10.801	8.961	12.693	-	12.693
Current President's Budget	10.801	8.961	12.686	-	12.686
Total Adjustments	-	-	-0.007	-	-0.007
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-0.007	-	-0.007

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>				Project (Number/Name) EW5 / <i>Electronic Warfare Development - MIP</i>			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
EW5: <i>Electronic Warfare Development - MIP</i>	-	6.079	4.426	6.660	-	6.660	7.723	5.867	5.188	5.285	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Prophet Enhanced (PE) is the current system under the Prophet Ground acquisition program. Funds provide for development and integration of Pre-Planned Product Improvement (P3I) upgrades for Next Generation Signals and state-of-the-art Signals Intelligence (SIGINT) exploitation techniques to increase the capabilities of the PE and maintain operational relevance. The PE is the tactical commander's sole organic ground-based SIGINT/Electronic Warfare system for the Brigade Combat Team (BCT), Stryker Brigade Combat Team (SBCT), and Battlefield Surveillance Brigade (BfSB). 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. PE provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations (Stationary-Fixed, Mobile and Manpack). It also incorporates product modernization, integration, and test of equipment for rapid integration of Technical Insertions (TI) and product development to ensure operational relevance.

Justification:

FY2016 Base dollars in the amount of \$6.660 million supports the following activities: development of product upgrades for Next Generation Signals and SIGINT exploitation to increase the capabilities of the PE and maintain operational relevance.

Enhanced SIGINT Exploitation: H/W and/or S/W upgrades to increase system performance, to include but not limited to: enhanced Manpack capability (integration/test and accreditation of updates), tuner upgrade, processor upgrade, increase in memory, antenna upgrade, operating system upgrade and receiver software upgrade.

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

	FY 2014	FY 2015	FY 2016
Title: Next Generation Signals	3.008	2.173	3.239
Description: Prophet P3I effort			
FY 2014 Accomplishments: Prophet P3I effort			
FY 2015 Plans: Prophet P3I effort			
FY 2016 Plans: Prophet P3I effort			
Title: Enhanced SIGINT Exploitation	3.071	2.253	3.421

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Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>				Project (Number/Name) EW5 / <i>Electronic Warfare Development - MIP</i>			

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Description: Prophet P3I effort. FY 2014 Accomplishments: Prophet P3I effort. FY 2015 Plans: Prophet P3I effort. FY 2016 Plans: Prophet P3I effort.			
Accomplishments/Planned Programs Subtotals	6.079	4.426	6.660

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• SSN BZ7326: <i>Prophet Ground (OPA) - BZ7326</i>	55.398	55.896	64.179	-	64.179	18.538	32.825	44.034	47.608	Continuing	Continuing
• SSN 9751: <i>Special Purpose Systems (MIP OPA) (Prophet Only) - BZ9751</i>	1.927	3.901	4.011	-	4.011	4.120	4.244	4.520	9.278	Continuing	Continuing
• SSN 0605766A: <i>National Integration to Tactical Systems (MIP) - DX9 (TNG, PE 0605766A)</i>	0.450	0.450	0.500	-	0.500	0.526	0.526	2.026	2.526	-	7.004
Remarks Enhanced SIGINT Exploitation: H/W and/or S/W upgrades to increase system performance, to include but not limited to: enhanced Manpack capability (integration/test and accreditation of updates), tuner upgrade, processor upgrade, increase in memory, antenna upgrade, operating system upgrade and receiver software upgrade.											
D. Acquisition Strategy The Prophet R&D Acquisition Strategy is structured to maintain operational relevancy of PE systems in a dynamic threat environment while reducing risk and streamlining business and engineering processes. The PE Pre-Planned Product Improvement (P3I) contract supports R&D and other developmental work, it also provides production and sustainment under the Indefinite-Delivery Indefinite-Quantity Contract. Follow-on contracting activities include the approved current contract period-of-performance (PoP) for two additional years to address modernization of initial PE Quick Reaction Capability (QRC) systems by the Original Equipment Manufacturer (OEM).											

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015
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E. Performance Metrics N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army												Date: February 2015			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>				Project (Number/Name) EW5 / <i>Electronic Warfare Development - MIP</i>					
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Program Management	Various	PM Electronic Warfare : APG, MD	0.381	0.200	Oct 2014	0.200	Oct 2015	0.200	Oct 2016	-		0.200	Continuing	Continuing	Continuing
Subtotal			0.381	0.200		0.200		0.200		-		0.200	-	-	-
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Software SIL	C/CPFF	GD C4 Systems : Scottsdale, AZ	0.889	-		-		-		-		-	-	0.889	-
Radio/Receiver Inegration (integrate software defined receiver)	C/CPFF	GD C4 Systems : Scottsdale, AZ	4.037	-		-		-		-		-	Continuing	Continuing	Continuing
Integrate Electronic Warfare Systems	C/CPFF	TRAC : Ft. Leavenworth, KS	4.900	-		-		-		-		-	Continuing	Continuing	Continuing
Next Generation Signals (TOS)	C/CPFF	GD C4 Systems : Scottsdale, AZ	1.200	-		-		-		-		-	Continuing	Continuing	Continuing
Precision Geo-Location	C/CPFF	GD C4 Systems : Scottsdale, AZ	4.200	-		-		-		-		-	Continuing	Continuing	Continuing
Real-time Signal Processing architectural framework (software defined capabilities)	C/CPFF	GD C4 Systems : Scottsdale, AZ	6.706	-		-		-		-		-	Continuing	Continuing	Continuing
Next Generation Signals	C/CPFF	GD C4 Systems : Scottsdale, AZ	3.400	2.768	Mar 2014	2.070	Mar 2015	3.012	Mar 2016	-		3.012	Continuing	Continuing	Continuing
Enhance SIGINT Exploitation	C/CPFF	GD C4 Systems : Scottsdale, AZ	0.000	2.811	Mar 2014	2.156	Mar 2015	3.448	Mar 2016	-		3.448	Continuing	Continuing	-
Subtotal			25.332	5.579		4.226		6.460		-		6.460	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army													Date: February 2015		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>					Project (Number/Name) EW5 / <i>Electronic Warfare Development - MIP</i>					
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Matrix Support	Various	I2WD : APG, MD	0.664	0.300	Jan 2014	-		-		-		-	-	0.964	-
System Integration Lab	Various	I2WD : APG, MD	2.500	-		-		-		-		-	-	2.500	-
Subtotal			3.164	0.300		-		-		-		-	-	3.464	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Prepare and Conduct Delta Testing	MIPR	EPG/AEC : Huachuca, AZ	1.240	-		-		-		-		-	Continuing	Continuing	Continuing
Subtotal			1.240	-		-		-		-		-	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			30.117	6.079		4.426		6.660		-		6.660	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army

Date: February 2015

Appropriation/Budget Activity

2040 / 5

R-1 Program Element (Number/Name)

PE 0304270A / *Electronic Warfare Development*

Project (Number/Name)

EW5 / *Electronic Warfare Development - MIP*

Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 Control/Prophet Analytic Cell Production																												
(1) PE QRC Contract Extension																												
Production - Prophet Enhanced																												
Fielding - Prophet Enhanced																												
Prophet P3I and TI																												
(2) Delta Testing - P3I (2017)																												
(3) Delta Testing - P3I (2019)																												
(4) Contract Award - Modernization																												
Prophet Modernization																												
Prophet Modernization - Fielding																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>	Project (Number/Name) EW5 / <i>Electronic Warfare Development - MIP</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Prophet Control/Prophet Analytic Cell Production	4	2011	1	2014
PE QRC Contract Extension	2	2015	2	2015
Production - Prophet Enhanced	2	2009	2	2017
Fielding - Prophet Enhanced	2	2010	2	2018
Prophet P3I and TI	4	2008	4	2020
Delta Testing - P3I (2017)	2	2017	2	2017
Delta Testing - P3I (2019)	2	2019	2	2019
Contract Award - Modernization	2	2017	2	2017
Prophet Modernization	2	2017	4	2020
Prophet Modernization - Fielding	1	2018	4	2020

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>				Project (Number/Name) EW6 / ARAT-TSS - MIP			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
EW6: ARAT-TSS - MIP	-	4.722	4.535	6.026	-	6.026	7.875	8.356	8.871	9.039	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note												
The Army Reprogramming Analysis Team (ARAT) is a Department of the Army established program to develop techniques, methods, tools and architecture to rapidly reprogram mission software embedded in Army Electronic Warfare (EW) systems in response to changes in threat signatures. The regulatory guidance directing this mission is contained in AR 525-15, AR 525-22, and AR 95-1. The ARAT develops integrated technical solutions required to counter increasingly sophisticated EW threats to US Forces. The ARAT reprogramming infrastructure supports the Army Campaign Plan to provide the Regionally Aligned Forces tactical Commander timely rapid-reprogramming capability of EW systems with mission software. The ARAT mission responsibility is to develop and distribute Mission Software and Products to forward deployed combat forces. ARAT identifies and analyzes threat signature changes which affect EW systems; determines the impact of observed signature changes; develops new mission software to adapt friendly systems to detect enemy changes; disseminates the Mission Software and Products, and provides tools and software to upload new mission software into the affected EW systems.												
A. Mission Description and Budget Item Justification												
Current military operations are conducted in a rapidly changing threat environment, where Improvised Explosive Devices (IEDs), Infra Red (IR) man-portable air defense systems (MANPADS) seekers, radar guided surface-to-air-missiles (SAM), laser guided weapons, anti-helicopter mines, and targeting sensors are proliferating and evolving. Integrated solutions are required to counter increasingly sophisticated EW threats. The ARAT reprogramming infrastructure supports the tactical Commander by providing timely rapid reprogramming of mission software and information dissemination for Army supported, Joint and allied services. ARAT supports integrated reprogramming of target acquisition, target engagement, vehicle survivability, and Aircraft Survivability Equipment (ASE). ARAT rapid-reprogramming infrastructure supports tactical requirements for deployed aircraft and ground-based (e.g. CREW) survivability systems. ARAT identifies and analyzes threat signature changes which affect EW systems; determines the impact of observed signature changes; develops new mission software to adapt the system to the changes; disseminates the mission software; and provides methods to upload the new mission software into the affected EW systems. Each element within the ARAT infrastructure plays a specific role within the program's rapid reprogramming process, providing the Soldier with the capability to install mission and target identification software at the lowest possible level, thus maximizing flexibility for tactical commanders. ARAT participates in the operational and developmental test design of Army EW systems, and supports Joint Service Reprogramming Exercises in all theaters. ARAT Research and Development enables continuous development of: 1) automated threat analysis tools to rapidly detect (flag) threat changes within the intelligence system, 2) tools to minimize the time to develop Mission Software and Products (MSP), 3) tools and technology to minimize the time required to test and validate MSPs, 4) improved communications conduits to rapidly transmit mission software to upload into supported EW systems. These efforts allow for rapid threat analysis, threat modeling and simulation, mission software development and testing, distribution and uploading of mission software directly to the supported Soldier in the field.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2014	FY 2015	FY 2016	
Title: Keeping Pace with the Enemy and Technology									3.423	3.258	3.987	

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>	Project (Number/Name) EW6 / ARAT-TSS - MIP	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015
Description: Funding is provided for the following effort FY 2014 Accomplishments: This effort: 1) analyzed the intelligence data requirements to support MSP development for EO/UV/IR spectrums and other multi-spectral sensors for aviation and non-aviation EW systems, 2) Developed government organic knowledge and application-base enabling reprogramming of future systems, 3)Performed requirements analysis and concept development for the reprogramming of multi-spectral EW systems. FY 2015 Plans: This effort continues to: 1) analyze the intelligence data requirements to support MSP development for EO/UV/IR spectrums and other multi-spectral sensors for aviation and non-aviation EW systems, 2) Develop government organic knowledge and application-base enabling reprogramming of future systems, 3)Perform requirements analysis and concept development for the reprogramming of multi-spectral EW systems. FY 2016 Plans: This effort will continue to: 1) analyze the intelligence data requirements to support MSP development for EO/UV/IR spectrums and other multi-spectral sensors for aviation and non-aviation EW systems, 2) Develop government organic knowledge and application-base enabling reprogramming of future systems, 3)Perform requirements analysis and concept development for the reprogramming of multi-spectral EW systems.			
Title: Infrastructure Improvements Multispectral Description: Funding is provided for the following effort FY 2014 Accomplishments: Conducted infrastructure improvements for Operational Flight Program (OFP) sustainment environment that enabled the USG to develop and deploy the OFP environment for Missile Warning Systems (MWS). Determined data and analyzed requirements for MANPADS characterization to establish an organic government analysis and sustainment process to support OFPs and subsequently adapt MWSs to new threats. Established initial government organic capability, decreasing the risk that systems cannot be readily adapted to changing threats. Currently, no government organic capability exists, increasing the risk that systems cannot be readily adapted to changing threats. FY 2015 Plans: Conduct infrastructure enhancements for an OFP sustainment environment to enable the USG to develop and deploy an OFP environment for MWS. Determine data and conduct analysis requirements for MANPADS characterization and establish an organic government analysis and sustainment process to support OFPs and subsequently adapt MWSs to new threats. Establish		0.646	0.746
			1.323

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015		
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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
initial government organic capability, thereby decreasing the risk that systems cannot be readily adapted to changing threats. Currently, no government organic capability exists, increasing the risk that systems cannot be readily adapted to changing threats. FY 2016 Plans: Will conduct infrastructure enhancements for an OFP sustainment environment to enable the USG to develop and deploy an OFP environment for MWS. Will determine data and conduct analysis requirements for MANPADS characterization and establish an organic government analysis and sustainment process to support OFPs and subsequently adapt MWSs to new threats. Will establish government organic capability, thereby decreasing the risk that systems cannot be readily adapted to changing threats. Currently, no government organic capability exists, increasing the risk that systems cannot be readily adapted to changing threats.				
Title: Infrastructure Improvement Radio Frequency General Description: Funding is provided for the following effort FY 2014 Accomplishments: Enhanced the ARAT communications architecture to facilitate the rapid secure transmission of mission software changes to EW systems, with emphasis on remote user and highly mobile Soldier connectivity. Developed and implemented an initial integrated ASE development and test environment to ensure MSP and threat countermeasure integration on the respective airborne platform. FY 2015 Plans: Enhance the ARAT communications architecture to facilitate the rapid secure transmission of mission software changes to EW systems, with emphasis on remote user and highly mobile Soldier connectivity. Develop and implement an initial integrated EW development and test environment to ensure MSP and threat countermeasure integration on the respective EW platform. FY 2016 Plans: Will continue to enhance the ARAT communications architecture to facilitate the rapid secure transmission of mission software changes to EW systems, with emphasis on remote user and highly mobile Soldier connectivity. Will develop and implement an initial integrated EW development and test environment to ensure MSP and threat countermeasure integration on the respective EW platform.		0.463	0.419	0.507
Title: Threat Flagging and Mission Data Set Reprogramming Tool Development Description: Funding is provided for the following effort FY 2014 Accomplishments: Threat Flagging and Mission Software Developmental Tools- Conducted initial evaluations of the ARAT internal system specific threat flagging, threat analysis, MSP generation, and MSP testing processes. Enhanced threat flagging (threat performance		0.190	0.112	0.209

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015
change detection) and intelligence analytical tools, based on supported systems performance criteria, to rapidly identify and counter emerging and changing threats that adversely affect the performance of the EW systems. Created initial MSP development, testing and validation tools to decrease time from threat-change detection to the distribution of MSP products in order to increase the accuracy and fidelity of threat identification, and reduced the engineering involvement/workload associated with the manually intensive analysis and MSP development processes. Defined requirements to migrate to a data support infrastructure that employs Next Generation Electronic Warfare Integrated Reprogramming (EWIR) database. FY 2015 Plans: Develop requirements and spiral designs for ARAT internal system specific threat flagging, threat analysis, mission software generation and testing processes. Enhance threat flagging (threat performance change detection) and intelligence analytical tools, based on supported systems performance criteria, to rapidly identify and counter emerging and changing threats that adversely affect the performance of the EW systems. Conduct initial mission software development, develop testing and validation tools to decrease time from threat-change detection to the distribution of MSP in order to increase the accuracy and fidelity of threat identification, and reduce the engineering involvement/workload associated with the manually intensive analysis and MSP development processes. Define requirements and develop tools to migrate to a data support infrastructure that employs the EWIR database. FY 2016 Plans: Will continue to develop and enhance applications for ARAT internal system specific threat flagging, threat analysis, mission software generation and testing processes. Will continue to enhance threat flagging (threat performance change detection) and intelligence analytical tools, based on supported systems performance criteria, to rapidly identify and counter emerging and changing threats that adversely affect the performance of the EW systems. Will continue to enhance mission software development, testing and validation tools to decrease time from threat-change detection to the distribution of MSP in order to increase the accuracy and fidelity of threat identification, and reduce the engineering involvement/workload associated with the manually intensive analysis and MSP development processes. Will further define requirements and develop tools to enhance a data support infrastructure that employs the EWIR database.			
Accomplishments/Planned Programs Subtotals		4.722	4.535
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			

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D. Acquisition Strategy The efforts to be funded in this project will require a combination of systems specific and high-tech knowledge. The contractual services portion for the project will be obtained from both the Communications-Electronics Command (CECOM) Software Engineering Center (SEC) competitive omnibus and the Research, Development and Engineering Command (RDECOM) and the Defense Technical Intelligence Center (DTIC) high tech contracts.		
E. Performance Metrics N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army												Date: February 2015			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>				Project (Number/Name) EW6 / ARAT-TSS - MIP					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Travel	Various	Various locations : .	0.481	0.173		0.184		0.270		-		0.270	Continuing	Continuing	Continuing
USG Labor	Various	ARAT Research and Development element Various locations : APG, MD	1.738	0.710		0.663		0.760		-		0.760	Continuing	Continuing	Continuing
Subtotal			2.219	0.883		0.847		1.030		-		1.030	-	-	-
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Development Support (CECOM RDEC Test and Evaluation CECOM SEC Omnibus)	Various	Various : .	10.028	3.839		3.688		4.996		-		4.996	Continuing	Continuing	Continuing
Subtotal			10.028	3.839		3.688		4.996		-		4.996	-	-	-
Project Cost Totals			12.247	4.722		4.535		6.026		-		6.026	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army																Date: February 2015																			
Appropriation/Budget Activity 2040 / 5								R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>								Project (Number/Name) EW6 / ARAT-TSS - MIP																			
Event Name								FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
								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
na																																			

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>	Project (Number/Name) EW6 / ARAT-TSS - MIP	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
na	4	2014	4	2014