Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0304270A: Electronic Warfare Development

BA 5: Development & Demonstration (SDD)

,	(- /										
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	-	21.571	13.819	-	13.819	13.918	19.068	20.712	20.238	Continuing	Continuing
EW5: ELECTRONIC WARFARE DEVELOPMENT - MIP	-	18.426	10.431	-	10.431	10.455	15.061	15.491	14.933	Continuing	Continuing
EW6: ARAT-TSS - MIP	-	3.145	3.388	-	3.388	3.463	4.007	5.221	5.305	Continuing	Continuing

Note

Change Summary Explanation: Funding - FY 2011: Program transferred from 0604270A beginning in FY 11 to comply with fully captured Military Intelligence Program (MIP) elements.

A. Mission Description and Budget Item Justification

FY 2011 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. 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.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	-	21.571	13.854	-	13.854
Current President's Budget	-	21.571	13.819	-	13.819
Total Adjustments	-	-	-0.035	-	-0.035
 Congressional General Reductions 		-			
 Congressional Directed Reductions 		-			
 Congressional Rescissions 	-	-			
 Congressional Adds 		-			
 Congressional Directed Transfers 		-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
Other Adjustments 1	-	-	-0.035	-	-0.035

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DATE: February 2011

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APPROPRIATION/BUDGET ACTIV 2040: Research, Development, Test BA 5: Development & Demonstration	& Evaluation	n, Army			IOMENCLAT 0A: <i>Electroni</i>		evelopment	PROJECT EW5: ELEC DEVELOPA		ARFARE	
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
EW5: ELECTRONIC WARFARE DEVELOPMENT - MIP	-	18.426	10.431	-	10.431	10.455	15.061	15.491	14.933	Continuing	Continuing
Quantity of RDT&E Articles											

Note

Note: This is not a new start. Program transferred from 0604270A beginning in FY 11 to comply with fully captured Military Intelligence Program (MIP) elements.

A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2012 Army

Prophet is the tactical commander's sole organic ground-based Signals Intelligence (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. Prophet is an integral part of the Army Modernization providing Near Real Time (NRT) information to the Brigade Commander within his combat decision cycle. This NRT information, when processed, provides a key component of the fused intelligence Common Operating Picture (COP). Prophet Enhanced (PE) provides a modular, scalable, open architecture-based system solution optimized for ease of use and rapid integration of Technical Insertions/Pre-Planned Product Improvements to ensure operational relevance. PE is a non-vehicle specific system, allowing maximum flexibility to accommodate a myriad of platforms. PE also provides a simultaneous mission capability in stationary, mobile, and man-pack configuration/modes further increasing/enhancing the SIGINT capabilities for the unit commander. PE is being fielded to deploying units in accordance with ARFORGEN requirements. Prophet provides reach-back capability and interfaces directly with the National SIGINT Enterprise via Wideband Beyond Line of Sight (WB BLOS) Satellite Communications either at Prophet Control (PC) or the Prophet Sensor.

FY2012 Base dollars support the following activities: develops product upgrades for Next Generation Signals to increase the capabilities of the PE and maintain operational relevance; initiates establishment of the Prophet System Integration Lab; and initiates integration and testing of a software defined radio/receiver solution (e.g. PENNANTRACE) into the PE Sensor.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: Integrate Electronic Warfare Systems	-	4.900	-
Articles:		0	
Description: Integrate Electronic Warfare Systems			
FY 2011 Plans:			
Integrate Electronic Warfare Systems			
Title: PE/SP1 ES Software Upgrade	-	6.428	-
Articles:		0	

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army		DATE: Fe	ebruary 2011	
APPROPRIATION/BUDGET ACTIVITY		JECT		
2040: Research, Development, Test & Evaluation, Army	PE 0304270A: Electronic Warfare Development EW			
BA 5: Development & Demonstration (SDD)	DEV	ELOPMENT - MI	<i>P</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Artic	le Quantities in Each)	FY 2010	FY 2011	FY 2012
Description: P3I upgrade for Prophet Enhanced and ES Spiral	1 software			
FY 2011 Plans:				
Software upgrade for Prophet Enhanced and ES Spiral 1				
Title: PE Hardware Upgrade		_	4.598	-
	Artic	les:	0	
Description: P3I hardware upgrade for Prophet Enhanced system	ems.			
FY 2011 Plans:				
Hardware Upgrade for Prophet Enhanced systems				
Title: Next Generation Signals (TOS)		-	-	2.50
Description: Develop next generation signals (TOS)				
FY 2012 Plans:				
Develop next generation signals (TOS)				
Title: Precision Geo-Location		-	-	1.87
Description: Develop Geo-location capability for the Prophet Er	nhanced system under P3I requirements.			
FY 2012 Plans:				
Develop Geo-location capability for the Prophet Enhanced syste	em under P3I requirements.			
Title: System Integration Lab		-	2.500	2.17
	Artic	les:	0	
Description: Stand Up System Integration Lab				
FY 2011 Plans:				
Stand up Systems Integration Lab				
FY 2012 Plans:				
Stand Up System Integration Lab				
Title: Prophet Control H/W and S/W Upgrade		-	-	2.11

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0304270A: Electronic Warfare Development	EW5: ELEC	CTRONIC WARFARE
BA 5: Development & Demonstration (SDD)		DEVELOPI	MENT - MIP

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Description: Upgrade hardware and software for Prophet Control systems.	1 1 2010	112011	1 1 2012
FY 2012 Plans: Upgrade hardware and software for Prophet Control systems.			
Title: Radio/Receiver Integration	-	-	1.77
Description: Integrate Radio/Receiver integration into the Prophet Enhanced system under P3I requirements.			
FY 2012 Plans: Integrate Radio/Receiver integration into the Prophet Enhanced system under P3I requirements.			
Accomplishments/Planned Programs Subtotals	-	18.426	10.43

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

				FY 2012	FY 2012	FY 2012					Cost To	
	<u>Line Item</u>	FY 2010	FY 2011	Base	oco	<u>Total</u>	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost
	 Signals Warfare Development 	5.172									0.000	5.172
	- L12: <i>Electronic Warfare</i>											
	Development L12 (RDT&E)											
- 1	 Prophet Ground: Prophet Ground 	58.299	90.417	72.041		72.041		41.090	40.239	35.926	Continuing	Continuing
	(OPA)											
- 1	 Special Purpose Systems (MIP): 	6.999	7.646	9.163		9.163		13.149	13.948	14.396	Continuing	Continuing
- 1	Special Purpose Systems (MIP)											
- 1	(OPA)											
	 Defense Cryptological Program: 	0.319	2.136	5.989		5.989		4.724	4.814	4.896	Continuing	Continuing
	NSA MIP for Prophet (RDT&E)											

D. Acquisition Strategy

The Prophet R&D Acquisition Strategy is structured to optimize system capability while reducing risk and streamlining business and engineering processes. PE entered production in 2QFY09 via Full and Open competition. The PE contract is Firm-Fixed-Price, Indefinite-Delivery Indefinite-Quantity with provisions to support R&D and other developmental work as Cost-Plus efforts. The PE contract will be used to maintain the operational relevancy of PE systems in a dynamic threat environment.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

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UNCLASSIFIED Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army DATE: February 2011 APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 2040: Research, Development, Test & Evaluation, Army PE 0304270A: Electronic Warfare Development EW5: ELECTRONIC WARFARE **DEVELOPMENT - MIP** BA 5: Development & Demonstration (SDD) FY 2012 FY 2012 FY 2012 Management Services (\$ in Millions) **FY 2011** Base oco Total **Total Prior** Target Contract Method Performing Years Award Award Award Cost To Value of Cost Complete Cost Category Item **Activity & Location** Cost Date Cost Date Date **Total Cost** Contract & Type Cost Cost PM Electronic **Program Management** Various 0.380 0.181 0.181 Continuing Continuing Continuing Warfare:APG. MD Subtotal 0.380 0.181 0.181 FY 2012 FY 2012 FY 2012 **Product Development (\$ in Millions)** FY 2011 Base oco Total **Total Prior** Contract Target Method Performing Years Award Award Award Cost To Value of **Cost Category Item Activity & Location** Cost Cost Date Cost Cost Date Cost Complete **Total Cost** & Type Date Contract Prophet Enhanced H/W GD C4 C/FP 3.000 Continuina Continuing Continuina Upgrade Systems:Scottsdale, AZ Prophet Enhanced/SP1 ES S/ GD C4 C/FP Continuing | Continuing 4.200 Continuina Systems:Scottsdale, AZ W Upgrade Integrate Electronic Warfare C/FP TBD:TBD 4.900 Continuing Continuing Continuing Systems GD C4 **Next Generation Signals** C/FP 2.500 2.500 Continuing Continuing Continuing Systems:Scottsdale, AZ (TOS) GD C4 Prophet Control HW/SW C/FP 1.643 1.643 Continuina Continuina Continuina Systems:Scottsdale, AZ Upgrade GD C4 Precision Geo-Location C/FP 1.400 1.400 Continuina Continuina Continuina Systems:Scottsdale, AZ GD C4 Radio/Receiver Integration C/FP 1.300 1.300 Continuing Continuing Continuing Systems:Scottsdale, AZ Subtotal 12.100 6.843 6.843 FY 2012 FY 2012 FY 2012 Support (\$ in Millions) **FY 2011** Base oco Total Contract **Total Prior** Target Method Performing Years Award Award Award Cost To Value of **Cost Category Item** & Type **Activity & Location** Cost Cost Date Cost Date Cost Date Cost Complete **Total Cost** Contract 0.473 0.207 Continuing Matrix Support Various CECOM:APG, MD 0.207 Continuing Continuing Contract Engineering Support Various MITRE:Eatontown, NJ 0.600 Continuing Continuina Continuina _

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1.700

1.700 Continuing

Continuing

Continuing

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2.500

12WD:APG. MD

Various

System Integration Lab

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0304270A: Electronic Warfare Development EW5: ELECTRONIC WARFARE

PROJECT

DATE: February 2011

DEVELOPMENT - MIP

Support (\$ in Millions)				FY 2	011	FY 2 Ba	2012 se		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	3.573		1.907		-		1.907			

Test and Evaluation (\$ i	in Millions	s)		FY 2	011		2012 Ise		2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Theater Test/Technical Support	Various	EPG/AEC:various	-	0.500		-		-		-	Continuing	Continuing	Continuing
Prepare and Conduct Delta Testing	Various	EPG/AEC:Huachuca, AZ	-	1.873		1.500		-		1.500	Continuing	Continuing	Continuing
		Subtotal	-	2.373		1.500		-		1.500			

				1	1			
	Total Prior							Target
	Years		FY 2012	FY 2012	FY 2012	Cost To		Value of
	Cost	FY 2011	Base	oco	Total	Complete	Total Cost	Contract
Project Cost Totals	-	18.426	10.431	-	10.431			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Army **DATE:** February 2011 APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 2040: Research, Development, Test & Evaluation, Army PE 0304270A: Electronic Warfare Development EW5: ELECTRONIC WARFARE BA 5: Development & Demonstration (SDD) **DEVELOPMENT - MIP** FY 2010 FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 2 2 2 4 1 2 3 4 2 2 3 4 1 2 3 4 1 1 3 1 3 4 Prophet Control (PC) - Sole Source Contract Award PC Production - Sole Source Contract Prophet Control (PC) - Competitive Contract Award PC Production - Competitive Contract Delta Testing - P3I (2013) Delta Testing - P3I (2014) Delta Testing - P3I (2015) Delta Testing (2016)

Exhibit R-4A, RDT&E Schedule Details: PB 2012 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army
BA 5: Development & Demonstration (SDD)

PATE: February 2011

R-1 ITEM NOMENCLATURE
PE 0304270A: Electronic Warfare Development
DEVELOPMENT - MIP

Schedule Details

	St	art	E	nd
Events	Quarter	Year	Quarter	Year
Prophet Control (PC) - Sole Source Contract Award	1	2010	1	2010
PC Production - Sole Source Contract	3	2010	4	2010
Prophet Control (PC) - Competitive Contract Award	2	2011	2	2011
PC Production - Competitive Contract	2	2012	1	2013
Delta Testing - P3I (2013)	1	2013	1	2013
Delta Testing - P3I (2014)	1	2014	1	2014
Delta Testing - P3I (2015)	1	2015	1	2015
Delta Testing (2016)	1	2016	1	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army DATE: February 2011												
					IOMENCLAT		PROJECT					
					0A: <i>Electroni</i>	ic Warfare D	EW6: <i>ARA</i> 7	T-TSS - MIP				
BA 5: Development & Demonstration	on (SDD)											
COST (\$ in Millions)			FY 2012	FY 2012	FY 2012					Cost To		
COST (\$ III WIIIIONS)	FY 2010	FY 2011	Base	oco	Total	FY 2013	FY 2014	FY 2015	FY 2016	Complete	Total Cost	
EW6: ARAT-TSS - MIP	-	3.145	3.388	-	3.388	3.463	4.007	5.221	5.305	Continuing	Continuing	
Quantity of RDT&E Articles												

Note

This is not a new start. Program transferred from 0604270A beginning in FY 11 to comply with fully captured Military Intelligence Program (MIP) elements.

A. Mission Description and Budget Item Justification

The Army Reprogramming Analysis Team (ARAT) is a Department of the Army established program to develop techniques, methods, tools and architecture to reprogram mission software embedded in Army Force Protection Systems (FPS) and Targeting Sensing Systems (TSS) in response to changes in threat signatures. The regulatory guidance directing this mission is contained in AR 525-25, AR 525-22, and AR 95-1. Current military operations are conducted in a rapidly changing threat environment, where Improvised Explosive Devices (IEDs), 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, and the ARAT reprogramming infrastructure supports the tactical Commander by providing timely rapid-reprogramming, and software/ information dissemination for Army supported, Joint, allied service, Electronic Warfare (EW) Integrated Reprogramming (EWIR) target acquisition, target engagement, vehicle survivability, and aircraft survivability equipment (ASE). ARAT efforts support Electronic Attack (EA), Electronic Protect (EP) and Electronic Support (ES). The ARAT rapid-reprogramming infrastructure supports tactical requirements for deployed aircraft and ground-based (e.g. CREW) survivability systems including those deployed in the CENTCOM area of responsibility (AOR). ARAT identifies and analyzes threat signature changes which affect FPS & TSS; determines the impact of observed signature changes on FPS & TSS; creates new mission data software to adapt the system to the changes; disseminates the software changes; and provides methods to upload the new software into the affected FPS or TSS. Each element within the ARAT infrastructure plays a specific role within the program?s rapid reprogramming process, providing the Warfighter with the capability to install mission and target identification software at the lowest possible level - maximizing flexibility for tactical commanders. ARAT participates in the operational and developmental test design of Army FPS, and supports Service and JCS Reprogramming Exercises in all theaters.

ARAT R&D enables continuing 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 Data Sets (MDS), 3) tools and technology to minimize the time required to test and validate MDSs, 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, software development, distribution and uploading of software changes directly to the supported Warfighter.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: Keeping Pace with the Enemy & Technology	-	1.813	2.013
Articles:		0	
Description: Funding is provided for the following effort			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE : Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT			
2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	PE 0304270A: Electronic Warfare Development	EW6: ARA	T-TSS - MII	D	
B. Accomplishments/Planned Programs (\$ in Millions, Article	PRIATION/BUDGET ACTIVITY Research, Development, Test & Evaluation, Army Development & Demonstration (SDD) Complishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012
to keep pace with changing threat and technology ARAT requires battlefield environment on deployed high-technology sensors and data requirements to support MDS development for Electro-optical sensors for aviation & non-aviation force protection systems (FPS systems (APS), 2) Develop government organic knowledge and a	assets to better understand the impact of the physical their sustainment. This effort will 1) study the intelligence al/Ultra-violet/Infra-red (EO/UV/IR) and other multi-spectres) and target sensing systems and to include active proteupplication-base enabling reprogramming of future systems.	e ral ection			
to keep pace with changing threat and technology ARAT requires battlefield environment on deployed high-technology sensors and data requirements to support MDS development for Electro-optica sensors for aviation & non-aviation force protection systems (FPS systems (APS), 2) Develop government organic knowledge and a	assets to better understand the impact of the physical their sustainment. This effort will 1) study the intelligence al/Ultra-violet/Infra-red (EO/UV/IR) and other multi-spectres) and target sensing systems and to include active proteupplication-base enabling reprogramming of future systems.	e ral ection			
Title: Infrastruture Improvements Multipspectral		Articles:	-	0.667 0	0.605
Description: Funding is provided for the following effort					
flight program (OFP) development environment for missile warnin for MANPADS characterization and establish a government-organ	g systems (MWS). Determine data and analysis require nic analysis and sustainment process to support OFP?s	ments and			
FY 2012 Plans: Infrastructure improvements? Operational Flight Program (OFP) flight program (OFP) development environment for missile warnin for MANPADS characterization and establish a government-organ	g systems (MWS). Determine data and analysis require	ments			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE : Fe	bruary 2011	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0304270A: Electronic Warfare Development	PROJECT EW6: ARA		D	
B. Accomplishments/Planned Programs (\$ in Millions, Article Qu		FY 2010	FY 2011	FY 2012	
subsequently adapt MWS?s to new threats. Currently, no governme can not be readily adapted to changing threats.	ent organic capability exists, increasing the risk that sy	ystems			
Title: Infrastructure Improvement Radio Frequency General		Articles:	-	0.450 0	0.540
Description: Funding is provided for the following effort					
FY 2011 Plans: Infrastructure improvements (general) - Enhance the ARAT commun software changes to FPS & TSS users, with emphasis on remote use implement integrated ASE test environment to ensure MDS and aircr	er and highly mobile Warfighter connectivity. Develop	p/			
FY 2012 Plans: Infrastructure improvements (general) - Enhance the ARAT commun software changes to FPS & TSS users, with emphasis on remote use implement integrated ASE test environment to ensure MDS and aircr	er and highly mobile Warfighter connectivity. Develop	p/			
Title: Threat Flagging & Mission Data Set Reprogramming Tool Dev	•	Articles:	-	0.215 0	0.230
Description: Funding is provided for the following effort					
FY 2011 Plans: Threat Flagging & MDS Reprogramming Tool Development - Develor flagging, threat analysis, MDS generation, and MDS testing. Enhance and intelligence analytical tools, based on supported systems perform changing threats that adversely affect the performance of FPS & TSS decrease time from threat-change detection to the distribution of MD threat identification, and reduce the engineering involvement/workload development processes. Define requirements and develop tools to m Generation EWIR System (NGES) when the NGES is deployed and	the threat flagging (threat performance change detection mance criteria, to rapidly identify and counter emerging. Create MDS development, testing and validation to products in order to increase the accuracy and fide ad associated with the manually intensive analysis and an igrate to a data support infrastructure that employs N	on) ng & ools to lity of d MDS			
FY 2012 Plans: Threat Flagging & MDS Reprogramming Tool Development - Developing flagging, threat analysis, MDS generation, and MDS testing. Enhance and intelligence analytical tools, based on supported systems perform	e threat flagging (threat performance change detection	on)			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Army			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0304270A: Electronic Warfare Development	EW6: ARA7	T-TSS - MIP
BA 5: Development & Demonstration (SDD)			

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
changing threats that adversely affect the performance of FPS & TSS. Create MDS development, testing and validation tools to decrease time from threat-change detection to the distribution of MDS products in order to increase the accuracy and fidelity of threat identification, and reduce the engineering involvement/workload associated with the manually intensive analysis and MDS development processes. Define requirements and develop tools to migrate to a data support infrastructure that employs Next Generation EWIR System (NGES) when the NGES is deployed and the current EWIR system is decommissioned.			
Accomplishments/Planned Programs Subtotals	-	3.145	3.388

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

N/A

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 CECOM Software Engineering Center (SEC) competitive omnibus and the RDEC High Tech contracts.

E. Performance Metrics

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Zartarmanca matrice licad in tha arabaration	of this illistification material ma	V ha faling in tha EV 2010 Arm	V Partarmanca Buladat illistitication	I ROOK dated May 2011
Performance metrics used in the preparation	oi ii iis iusiiiicalioii iiialeiiai iiia		v i enomiance budget sustincation	i book. dated iviav zo i

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0304270A: Electronic Warfare Development EW6: ARAT-TSS - MIP

PROJECT

DATE: February 2011

Product Development	evelopment (\$ in Millions)				2011	FY 2 Ba			2012 CO	FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Travel	Various	Various locations:various	-	0.110		0.147		-		0.147	Continuing	Continuing	Continuing
USG Labor	Various	ARAT-PO R&D element Various locations:APG, MD	-	0.550		0.750		-		0.750	Continuing	Continuing	Continuing
		Subtotal	-	0.660		0.897		-		0.897			

Support (\$ in Millions)			FY 2	2011	FY 2 Ba		FY 2012 OCO		FY 2012 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support (CECOM RDEC T&E CECOM SEC Omnibus)	Various	Various:various	-	2.485		2.491		-		2.491	Continuing	Continuing	Continuing
		Subtotal	-	2.485		2.491		-		2.491			

	Total Prior							Target
	Years		FY 2012	FY 2012	FY 2012	Cost To		Value of
	Cost	FY 2011	Base	oco	Total	Complete	Total Cost	Contract
Project Cost Totals	_	3 145	3 388	-	3 388			

Remarks