Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0303140A: Information Systems Security Program

BA 7: Operational Systems Development

COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	15.282	15.961	9.357	-	9.357	17.482	16.716	15.141	16.243	Continuing	Continuing
491: Information Assurance Development	-	15.282	8.380	5.113	-	5.113	9.644	9.156	8.356	9.343	Continuing	Continuing
501: Army Key Mgt System	_	0.000	7.581	1.306	-	1.306	2.411	2.338	2.185	2.500	Continuing	Continuing
DV4: Key Management Infrastructure (KMI)	-	0.000	0.000	1.502	-	1.502	2.653	2.725	2.200	2.100	Continuing	Continuing
DV5: Crypto Modernization (Crypto Mod)	-	0.000	0.000	1.436	-	1.436	2.774	2.497	2.400	2.300	Continuing	Continuing

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Note

Army

In FY14 the following adjustments were made:

Adjustment 1: Two new projects were created under the ISSP line: DV4 Key Management Infrastructure(\$1.502 Million) and DV5 Crypto Modernization (\$1.436 Million) for a net increase of \$2.938 Million.

Adjustment 2: Army Key MGT System new funding line is 1.306 Million.

Adjustment 3: Information Assurance funding was reduced by \$4.612 Million.

A. Mission Description and Budget Item Justification

Information Asurance Development supports the implementation of the National Security Agency (NSA) developed Communications Security (COMSEC) technologies into the Army by providing COMSEC system capabilities through encryption, trusted software or standard operating procedures, and integrating these mechanisms into specific systems in support of securing the National Network Enterprise. This entails architecture studies, system integration, testing, certification, and accreditation of COMSEC systems and equipment. COMSEC technology ensures total signal and data security for all Army information systems to include any operational enhancement and specialized Army configurations. The program also assesses, develops, and integrates COMSEC tools (hardware and software) which provide protection for fixed infrastructure posts, camp or station networks as well as tactical networks. The cited work is consistent with Strategic Planning Guidance and the Army Modernization Strategy.

PE 0303140A: Information Systems Security Program

Page 1 of 30

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

R-1 ITEM NOMENCLATURE
PE 0303140A: Information Systems Security Program

BA 7: Operational Systems Development

G6 OA22 Funding supports the technical assessment and specifications documentation of cryptographic, key management and information assurance (IA) technologies developed under the direction of the National Security Agency (NSA), the Defense Information Systems Agency (DISA), Joint Services, and commercial developers to secure National Security Systems (NSS) and National Security Information (NSI). Technical evaluations assess the security, operational effectiveness and network interoperability of advanced concept technologies to identify fundamental building blocks for Army IA solutions.

Army Key Management System (AKMS) is the Army's implementation of the National Security Agency's (NSA) Electronic Key Management System (EKMS) to automate the functions of Communications Security (COMSEC) key management control and distribution, thereby limiting adversarial access to, and reducing the vulnerability of, Army Command, Control, Communications, Computers, Intelligence (C4I) systems. Numerous software applications are being fielded on separate laptops, thus, burdening the units with the management of numerous laptops. In an effort to reduce the number of laptops in the field, Joint Tactical Network Environment NetOps Toolkit (J-TNT) provides a consolidated platform that hosts the numerous planning, monitoring and network management tools onto one J-TNT box. The J-TNT AN\GYK-33 V1 system is a laptop platform comprised of a suite of Commercial off the Shelf (COTS) and Government off the Shelf (GOTS) software applications. The suite of applications provides the soldier the capability to plan, monitor and manage COMSEC, Signal Operation Instruction/Joint Communications-Electronics Operations Instructions (SOI/JCEOI), network radio waveform configurations, loadsets and spectrum. From one platform, the J-TNT system provides the soldier the essential tools needed to complete critical battlefield missions operating on the tactical network.

Key Management Infrastructure (KMI) provides an integrated, operational environment that will bring essential key management personnel and functions in-band. KMI achieves an over the network key (OTNK) management solution to support emerging cryptographically modernized systems. The KMI client nodes are the Army's subset of the National Security Agency's (NSA's) KMI System supporting DoD Global Information Grid (GIG) Net Centric and Crypto Modernization Initiatives. The Mission Planning/ Mission Support System (MP/MSS) Interface for KMI will create a secure and highly automated interface to enable transparent provisioning of KMI products. The interface shall facilitate transparent communications between MP/MSS and KMI to achieve integration by bridging the gap between provisioning services and the communications net plan of the Warfighter.

The Crypto System program supports the implementation of the National Security Agency (NSA) developed Communications Security (COMSEC) technologies into the Army by providing COMSEC system capabilities through encryption, trusted software or standard operating procedures, and integrating these mechanisms into specified systems in support of securing the National Network Enterprise in as transparent a manner as possible.

PE 0303140A: Information Systems Security Program

Army

Page 2 of 30

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0303140A: Information Systems Security Program

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	15.684	15.961	9.725	-	9.725
Current President's Budget	15.282	15.961	9.357	-	9.357
Total Adjustments	-0.402	0.000	-0.368	-	-0.368
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
 Other Adjustments 1 	-0.402	-	2.938	-	2.938
 Other Adjustments 2 	-	-	1.306	-	1.306
Other Adjustments 3	-	-	-4.612	-	-4.612

Exhibit R-2A, RDT&E Project J	Justification	: PB 2014 <i>A</i>	Army						,	DATE: Apr	il 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development						NOMENCLA 10A: Informa rogram		ns	PROJECT 491: Information Assurance Development				
COST (\$ in Millions)	All Prior Years		FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
491: Information Assurance Development	-	15.282	8.380	5.113	-	5.113	9.644	9.156	8.356	9.343	Continuing	Continuing	
Quantity of RDT&E Articles													

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Note

Army

PE 0303140A, project 491 includes funding for the Army CIO/G6 (OA22) and PD COMSEC (5F).

A. Mission Description and Budget Item Justification

This program supports the implementation of the National Security Agency (NSA) developed Communications Security (COMSEC) technologies into the Army by providing COMSEC system capabilities through encryption, trusted software or standard operating procedures, and integrating these mechanisms into specified systems in support of securing the National Network Enterprise in as transparent a manner as possible.

This entails architecture studies, system integration and testing, installation kits, and certification and accreditation of Automation Information Systems. The program assesses, develops and integrates information assurance (IA)/COMSEC tools (hardware and software) which provide protection for fixed infrastructure post, camp and station networks as well as efforts on tactical networks. The cited work is consistent with Strategic Planning Guidance and the Army Modernization and Strategy Plan.

Funding supports the technical assessment and specifications documentation of cryptographic, key management and information assurance (IA) technologies developed under the direction of the NSA, the Defense Information Systems Agency (DISA), Joint Services, and commercial developers to secure National Security Systems (NSS) and National Security Information (NSI). Technical evaluations assess the security, operational effectiveness and network interoperability of advanced concept technologies to identify fundamental building blocks for Army IA solutions. (G6 OA22)

Develop and publish the strategy to identify and manage the insertion of new security capabilities to bridge operational gaps, providing timely security and performance improvements to the Army's network through the performance of interoperability and standards testing, conducting IA System of System Network Vulnerability Assessments (IA SoS NVA) of Army Capability Sets, and develops and integrates IA/COMSEC capabilities to provide protections for fixed infrastructure post, camp and station networks. Develop Army migration strategies of COMSEC equipment to ensure fully IA-compliant solutions that meet the objective for LandWarNet (LWN) 2020 and beyond. (G6 OA22)

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Assessing emerging COMSEC hardware and software systems and products	4.827	4.942	0.000
Articles:	0	0	

PE 0303140A: Information Systems Security Program

Page 4 of 30

^{##} The FY 2014 OCO Request will be submitted at a later date

Ö	NCLASSIFIED					
Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: A	April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development		PROJECT 491: Information Assurance Development				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities	in Each)	FY	2012	FY 2013	FY 2014	
Description: This program researches, assesses, tests and plans for cryptoginsertions within the existing and future network infrastructure; provides the boto reflect the latest technologies. Supports risk mitigation of IA networked vulcommon operating environment.	asis for adjusting COMSEC capabilities and polic					
FY 2012 Accomplishments: This Program researches new cryptographic, information assurance, and key assessments, concept exploration and validation to develop strategies and portangements and Key Management technologies. Continuing to provide informations, limitations, and impacts on the Army network to assist in bridging Enterprise Network. Test proof of concept prototypes and provide infrastructive technology transition. Continue to provide guidance for the adjustment of Coremains in synchronization with the latest COMSEC technologies.	olicies capitalizing on and leveraging emerging rmation, knowledge sharing and new equipment the gap between the tactical edge and the Armyure support to facilitate information assurance					
FY 2013 Plans: This Program researches new cryptographic, information assurance, and key assessments, concept exploration and validation to develop strategies and portangement continuing to provide informations, and impacts on the Army network to assist in bridging Enterprise Network. Test proof of concept prototypes and provide infrastructive technology transition. Continue to provide guidance for the adjustment of CC remains in synchronization with the latest COMSEC technologies.	olicies capitalizing on and leveraging emerging rmation, knowledge sharing and new equipment the gap between the tactical edge and the Armyure support to facilitate information assurance					
Title: Cryptographic Systems and Key Management Test and Evaluation	Arti	cles:	5.955 0	3.438	1.914	
Description: This program supports the Army Cryptographic Modernization by providing test and evaluation capabilities to the COMSEC community in or released and approved for Army use; testing can be performed on hardware,	der to assess emerging technologies before bein	ıg				
FY 2012 Accomplishments: The program will continue to test and evaluate advanced prototypes and cryp interoperability on Army networks and systems as well as identifying risk area procedures. Continuing to evaluate performance of Cryptographic Systems B Internet Protocol Security (IPSec) devices built based on commercial stand	is for compliance with COMSEC regulations and (CS) compliant devices, including the initial Suite					

PE 0303140A: *Information Systems Security Program* Army

UNCLASSIFIED
Page 5 of 30

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development	PROJECT 491: <i>Information A</i>	ssurance Dev	/elopment	
B. Accomplishments/Planned Programs (\$ in Millions, Article Qua	antities in Each)	FY 2012	FY 2013	FY 2014
approved COTS devices for Secret and below information in place of evaluation of Secure Smartphones based on COTS platform for Mobil and migration of initial HAIPE 4.0 compliant crypto devices to KMI bas produced keys for COTS devices. Complete evaluation of the perform These efforts will support network operations from end-to-end through (COE) thus mitigating Information Assurance (IA) vulnerabilities to the	le secure use. Evaluating KMI CI-2, Spiral 2 initial released key delivery. Development plan for delivery of NSA nance of initial EKMS / AKMS to KMI transition strategies nout the force and the Common Operating Environment			
FY 2013 Plans:				
The program will continue to test and evaluate advanced prototypes a interoperability on Army networks and systems as well as identifying r procedures. Continuing to evaluate performance of Cryptographic M Suite B Internet Protocol Security (IPSec) devices built based on com NSA approved COTS devices for Secret and below information in place evaluation of Secure Smartphones based on COTS platform for Mobil and migration of initial HAIPE 4.0 compliant crypto devices to KMI base produced keys for COTS devices. Complete evaluation of the perform These efforts will support network operations from end-to-end through (COE) thus mitigating Information Assurance (IA) vulnerabilities to the	risk areas for compliance with COMSEC regulations and odernization (CM) compliant devices, including the initial mercial standards. This is the first step in the migration ce of Government Off-The-Shelf (GOTS) devices. Started the secure use. Evaluating KMI CI-2, Spiral 2 initial released key delivery. Development plan for delivery of NSA mance of initial EKMS / AKMS to KMI transition strategies thout the force and the Common Operating Environment.	I to ed se		
FY 2014 Plans: The Program will continue to test and evaluate advanced prototypes winteroperability on Army networks and systems as well as identifying reprocedures. The Program will continue to test and evaluate Crypto Sycommercial standards, Cryptographic High Value Product (CHVP), Conew software releases to HAIPE 4.X devices in accordance with AR 7 Will continue to evaluate Secure Smartphone based on a COTS platform and migrate crypto devices to KMI based key delivery. Evaluate delive EKMS during the transition to KMI. Develop interfaces and provides we technology within the existing and future network infrastructure. Evaluate technology will converge to insure the lowest impact on performances.	risk areas for compliance with COMSEC regulations and restems compliant devices, Suite B IPSec devices built or formmercial Solutions for Classified (CSfC) Standards, an 700-142 Rapid Action Revision dated October 16, 2008. Form for Mobile secure use, KMI CI-2, Spiral 2 release, there of NSA produced keys for COTS devices. Support of a rays to insert Data At Rest (DAR) and Data In Transit (Date performance of technologies and provide direction of	d IT)		
Title: Mission Planning Mission Support System (MP/MSS) Interface	Arti	4.500 cles: 0	0.000	0.000

PE 0303140A: *Information Systems Security Program* Army

UNCLASSIFIED Page 6 of 30

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development		PROJECT 491: Information Assurance Development			
B. Accomplishments/Planned Programs (\$ in Millions, Article Qu	antities in Each)		FY 2012	FY 2013	FY 2014
Description: The program creates a secure highly automated interfact Infrastructure (KMI) products. The Mission Planning Mission Support KMI system developer and MP/MSS developers to have a standard in Warfighter Operations; achieves integration between provisioning ser	System (MP/MSS) system is to be used by both the nterface to electronically exchange information, enabling	ng			
FY 2012 Accomplishments: Continue to develop additional capabilities/upgrades if Mission Planni capability to validate signatures of payloads from MP/MSS using the					
Title: Research and insertion of emerging cryptographic and IA techn shape policies and guidance (G6 OA22)	ologies, operational value, and performance improver	nent to	0.000	0.000	3.19
Description: This program provides research, information assurance and information assurance technology insertions within the existing at for adjusting Cryptographic and IA capabilities and policies to reflect t Defense (DOD) enterprise architecture. Define, develop, and publish technologies for insertion. Assess risk mitigation of IA networked vulr Common Operating Environment.	nd future Army network infrastructure; provides the bathe latest technology trends and emerging Department ed IA assessment to determine maturity and viability of	of f			
FY 2014 Plans: This program researches new and emerging Cryptographic and IA teccommunications between the tactical edge, the Army Enterprise Netw Review operational needs, operation assessments, identify fundamentest commercial products for Army insertion. Participate in DOD pilot pleveraging emerging Cryptographic and Key Management technologic limitations and maximize performance to the Army networks. Effective information, and knowledge sharing on the LandWarNet to secure the programs and ensure COMSEC policies remains in synchronization with the communication of th	work and the DoD Joint Information Environment (JIE). Intal building blocks for IA solutions and risk reduction In programs. Develop strategies and policies capitalizing es to enhance Cyber Security, prevent any undue risk ally provide strategies, policies, and documentation to pee edge. Provide guidance for the adjustment of COMS	ab on and orotect			
	Accomplishments/Planned Programs Su	btotals	15.282	8.380	5.11

PE 0303140A: Information Systems Security Program Army

UNCLASSIFIED
Page 7 of 30

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army	DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0303140A: Information Systems Security Program	PROJECT 491: Information Assurance Development

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

		•	FY 2014	FY 2014	FY 2014					Cost To	
<u>Line Item</u>	FY 2012	FY 2013	Base	OCO	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
DV5: Cryptographic Systems			1.436		1.436	2.774	2.497	2.400	2.300	Continuing	Continuing
RDTE											
TA0600: Information System	37.022	43.897	23.245		23.245	19.352	7.509	11.913	3.363	Continuing	Continuing
Security Program - ISSP											
B96002: Cryptographic Systems			13.890		13.890	14.140	14.394	14.653	14.889	Continuing	Continuing
OPA2											
• BS9716: NON PEO-SPARES	2.384	2.412	2.093		2.093	3.843	2.712	2.597	8.800	Continuing	Continuing

Remarks

0303140A DV5 - Cryptographic System - RDTE funds

TA0600 - Information System Security Program - OPA2 funds

B96002 - Cryptographic Systems - OPA2 funds

BS9716 - NON PEO-SPARES - OPA4 funds

D. Acquisition Strategy

The objective of this program is to integrate and validate hardware and software solutions that will secure current and objective architecture and electronic business/ commerce transactions. The objective of the DoD Cryptographic Systems program is to provide adaptive, flexible, and programmable cryptographic systems using best practices, lessons learned and programmatic management to meet the challenge of modernizing the Army's aging cryptographic systems. The network operations effort will support the network operations from end-to-end throughout the force and the Common Operating Environment (COE) thus mitigating IA networked vulnerabilities to National information security systems.

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.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0303140A: Information Systems

Security Program

PROJECT

491: Information Assurance Development

DATE: April 2013

Product Developmen	roduct Development (\$ in Millions)			FY 2	012	FY 2	013	FY 2014 Base		FY 2	2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
System Engineering	C/FFP	CECOM RDEC:CECOM RDEC APG, MD	70.773	2.547	Feb 12	2.360		0.842	Jan 13	-		0.842	Continuing	Continuing	Continuin
Information Assurance System Engineering Support	C/FFP	DSCI Consulting:APG, MD	6.396	-		-		0.230	May 13	-		0.230	Continuing	Continuing	Continuin
Engineering Support	C/FP	CACI:APG, MD	3.100	0.500	Feb 12	1.000		0.498	Mar 13	-		0.498	Continuing	Continuing	Continuing
Engineering Support	C/CPFF	Booz Allen Hamilton:APG, MD	2.730	-		0.800		0.344	May 13	-		0.344	Continuing	Continuing	Continuing
Engineering Support	C/FP	CSC:APG, MD	14.341	2.107	Feb 12	2.170		-		-		-	0.000	18.618	0.000
IA Technical Support (G6/ OA22)	C/FFP	CACI:APG, MD	0.000	-		-		1.219	Mar 2013	-		1.219	0.000	1.219	0.000
IA Engineering/Art Support (G6/OA22)	C/FFP	Booz Allen Hamilton:APG, MD	0.000	-		-		1.280	Mar 2013	-		1.280	0.000	1.280	0.000
IA SOS Vulnerability Scans (OA22)	C/TBD	SLAD:White Sand Missile Defense	0.000	-		-		0.700		-		0.700	0.000	0.700	0.000
Hardware/Software Engineering	C/FFP	CECOM RDEC:APG, MD	5.224	-		0.800		-		-		-	Continuing	Continuing	Continuing
Information Assurance System Engineering Support	C/FFP	MITRE:McLean, VA	3.178	0.150	Feb 12	-		-		-		-	Continuing	Continuing	Continuing
C2 Protect Common Tools	C/FFP	CECOM RDEC:APG, MD	9.899	-		0.450		-		-		-	Continuing	Continuing	Continuing
Engineering Support	C/FFP	VIATECH:APG, MD	6.180	1.939	Feb 12	0.800		-		-		-	Continuing	Continuing	Continuing
Mission Planning Mission Support System (MPMSS) Interface	C/IDIQ	NSA (SAIC):San Diego, CA	0.000	4.500	Feb 12	-		-		-		-	0.000	4.500	0.000
Network Operations	C/IDIQ	TBD:TBD	0.000	1.941		-		-		-		-	0.000	1.941	0.000
		Subtotal	121.821	13.684		8.380		5.113		0.000		5.113			

PE 0303140A: *Information Systems Security Program* Army

UNCLASSIFIED
Page 9 of 30

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army

R-1 ITEM NOMENCLATURE

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

PE 0303140A: Information Systems

PROJECT

BA 7: Operational Systems Development

Security Program

491: Information Assurance Development

Test and Evaluation (\$ in Millions)				FY 2	2012	FY 2	2013	FY 2 Ba		FY 2		FY 2014 Total	_		
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test Support	C/CPFF	TBD:TBD	0.000	1.598		-		-		-		-	0.000	1.598	0.000
		Subtotal	0.000	1.598		0.000		0.000		0.000		0.000	0.000	1.598	0.000

Remarks

Not Applicable

	All Prior Years	FY 2	2012	FY 2	2013		2014 ase	FY 2	2014 FY 201 CO Total	4 Cost To	 Target Value of Contract
Project Cost Totals	121.821	15.282		8.380		5.113		0.000	5.1	13	

Remarks

PE 0303140A: *Information Systems Security Program* Army

Page 10 of 30

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army DATE: April 2013 APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 2040: Research, Development, Test & Evaluation, Army PE 0303140A: Information Systems 491: Information Assurance Development BA 7: Operational Systems Development Security Program FY 2012 **FY 2013** FY 2014 FY 2015 **FY 2016** FY 2017 **FY 2018** 2 2 1 2 3 4 1 3 4 1 2 3 4 3 4 2 3 4 TEST & EVALUATION OF LEF Family (KIV-7M) **TEST & EVALUATION OF INE Family** (KG-250X) **TEST & EVALUATION OF INE Family** (KG-175D) TEST & EVALUATION OF INE Family (Small Tactical) **TEST & EVALUATION OF Secure Terminal** (VIPER) **TEST & EVALUATION OF Secure Terminal** (VACM)

Schedule Details

	St	art	E	nd
Events	Quarter	Year	Quarter	Year
TEST & EVALUATION OF LEF Family (KIV-7M)	1	2014	4	2014
TEST & EVALUATION OF INE Family (KG-250X)	1	2014	4	2016
TEST & EVALUATION OF INE Family (KG-175D)	1	2015	4	2018
TEST & EVALUATION OF INE Family (Small Tactical)	1	2014	4	2015
TEST & EVALUATION OF Secure Terminal (VIPER)	1	2014	4	2014
TEST & EVALUATION OF Secure Terminal (VACM)	1	2016	4	2017

Exhibit R-2A, RDT&E Project Ju	ıstification	: PB 2014 <i>P</i>	Army							DATE: Apr	il 2013	
APPROPRIATION/BUDGET ACT		R-1 ITEM	NOMENCL	ATURE	T							
2040: Research, Development, Te		ation, Army			PE 030314	40A: Informa	ation Syster	ns	501: <i>Army</i>	Key Mgt Sy	⁄stem	
BA 7: Operational Systems Development						rogram						
COST (\$ in Millions)	All Prior			FY 2014	FY 2014	FY 2014					Cost To	Total
COST (\$ III WIIIIOIIS)	Years	FY 2012	FY 2013 [#]	Base	oco ##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Cost
501: Army Key Mgt System	-	0.000	7.581	1.306	-	1.306	2.411	2.338	2.185	2.500	Continuing	Continuing
Quantity of RDT&F Articles												

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

A. Mission Description and Budget Item Justification

Army Key Management System (AKMS) is the Army's implementation of the National Security Agency's (NSA) Electronic Key Management System (EKMS) program automating the functions of Communications Security (COMSEC) key management control and distribution, thereby limiting adversarial access to, and reducing the vulnerability of, Army Command, Control, Communications, Computers, Intelligence (C4I) systems. NSA's aging EKMS infrastructure is being replaced with the Key Management Infrastructure (KMI) by Dec. 2017, requiring the transition of 425 Army accounts from FY2013 to FY2017. AKMS supports the transition to the Army Key Management Infrastructure (AKMI) during this timeframe. A critical component of this transition is the Mission Planning/Mission Support System (MP/MSS) which creates a secure, highly automated interface to enable transparent provisioning of KMI products. Updates to the MP/MSS Interface Specification and additional capabilities for the interface continue through FY2014. The MP/MSS Interface Specification defines the interface between the KMI Management Client Node (MGC) and the Mission Planning System operating on the Secure Internet Protocol Router Network (SIPRNET). This interface definition covers the key ordering, management, and distribution transactions that were decomposed based upon an Army Mission Planning System collaborating with KMI to fulfill mission requirements in a highly automated manner.

The additional MP/MSS capabilities projected to be developed include 1) adding the missing mission planning data fields based on the Communications-Electronics Research, Development and Engineering Center (CERDEC) evaluation of Sprint 9/Release 1, 2) completing the Release 1 backlog along with the other core software requirements related to security, and 3) adding the access controls based on the current login procedures (via medium assurance Public Key Infrastructure (PKI), Login/Password and KMI certificate).

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Mission Planning Mission Support System (MP/MSS) Interface	0.000	7.581	1.306
Articles:		0	
Description: The Mission Planning Mission Support System (MP/MSS) program creates a secure, highly automated interface to enable transparent provisioning of Key Management Infrastructure (KMI) products. The MP/MSS system is to be used by both the KMI system developer and MP/MSS developers to have a standard interface to electronically exchange information, enabling Warfighter Operations; achieving integration between provisioning services and the communications net plan of the Warfighter.			
FY 2013 Plans:			

PE 0303140A: Information Systems Security Program

Army

Page 13 of 30

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2040: Research, Development, Test & Evaluation, Army	PE 0303140A: Information Systems	501: Army Key Mgt System
BA 7: Operational Systems Development	Security Program	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Additional Mission Planning Mission Support System (MP/MSS) capabilities projected to be developed include 1) adding missing mission planning data fields based on the Communications-Electronics Research, Development and Engineering Center (CERDEC) evaluation of Sprint 9/Release 1, 2) completing the Release 1 backlog along with other core software requirements related to security, and 3) adding the access controls based on the current login procedures (via medium assurance PKI, Login/ Password and KMI certificate).			
FY 2014 Plans: Develop Army-Specific software implementation of KMI's MP/MSS API to ensure maximum use of KMI architecture by Army's legacy ECUs, and provide a level of KMI Awareness for those devices.			
Accomplishments/Planned Programs Subtotals	0.000	7.581	1.306

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

			FY 2014	FY 2014	FY 2014					Cost To	
<u>Line Item</u>	FY 2012	FY 2013	Base	OCO	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
• BA1201: <i>TSEC - AKMS</i>		23.432	13.890		13.890	34.112	34.731	35.179	35.500	Continuing	Continuing
B96004: Key Management			10.821		10.821	9.001	9.090	9.163	9.327	Continuing	Continuing
Infrastructure											
DV4: Key Management			1.502		1.502	2.653	2.725	2.200	2.100	Continuing	Continuing
Infrastructure											

Remarks

Line Item & Title:

BA1201: TSEC-AKMS (OPA2)

B96004: Key Management Infrastructure (OPA2) DV4: Key Management Infrastructure (RDTE)

PE 0303140A: Information Systems Security Program

D. Acquisition Strategy

Army Key Management System (AKMS) Milestone III was conducted/ approved in FY 1999. Local COMSEC Management System (LCMS) completed fielding of software v5.0.3 in FY 2009 to all Communications Security (COMSEC) custodians in order to provide Encrypted Key capability. LCMS hardware refresh began 2QFY10. Current LCMS software is v5.1.0.5, which completes fielding in 2013. The AKMS acquisition strategy to procure Simple Key Loaders (SKL) was updated in an Acquisition Decision Memorandum (ADM) approved by the PEO C3T Milestone Decision Authority (MDA) 3QFY02. Science Applications International Corporation (SAIC) began SKL Post Development Software (PDSS) efforts in 1QFY09 and release software upgrades annually. In FY 2010, an Engineering Change Proposal (ECP) was initiated to modify the current SKL design in order to meet emerging requirements of modern end cryptographic units and Joint Tactical Radio Systems (JTRS). Automated Communications Engineering Software (ACES) is currently undergoing a hardware refresh. Continued enhancements and support of AKMS next

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2040: Research, Development, Test & Evaluation, Army	PE 0303140A: Information Systems	501: Army Key Mgt System
BA 7: Operational Systems Development	Security Program	
generation software tools to meet emerging Army systems' require version 8.0. AKMS supports the transition from NSA's EKMS infras		
E. Performance Metrics		
E. Performance Metrics Performance metrics used in the preparation of this justification ma	aterial may be found in the FY 2010 Army Performan	ice Budget Justification Book, dated May 2010.

PE 0303140A: *Information Systems Security Program* Army

DATE: April 2013 Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE PROJECT** 2040: Research, Development, Test & Evaluation, Army PE 0303140A: Information Systems 501: Army Key Mgt System BA 7: Operational Systems Development Security Program FY 2014 FY 2014 FY 2014 **Product Development (\$ in Millions)** FY 2012 oco FY 2013 Base Total Contract Target Method Performing All Prior Award Award Award Award **Cost To** Total Value of **Cost Category Item** & Type **Activity & Location** Years Cost Date Date Cost Date Cost Date Complete Cost Contract Cost Cost TBD:TBD Technical Support C/CPFF 0.000 2.250 0.652 0.652 Continuing Continuing 0.000 Subtotal 0.000 0.000 2.250 0.652 0.000 0.652 0.000 FY 2014 FY 2014 FY 2014 Support (\$ in Millions) FY 2012 oco Total FY 2013 Base Contract Target Method Performing All Prior Cost To Value of Award Award Award Award Total **Cost Category Item** & Type **Activity & Location** Years Cost Date Cost Date Cost Date Cost Date Cost Complete Cost Contract Integration Support **TBD** TBD:TBD 0.000 3.000 0.327 0.327 Continuing Continuing 0.000 3.000 0.327 0.327 0.000 Subtotal 0.000 0.000 0.000 FY 2014 FY 2014 FY 2014 Test and Evaluation (\$ in Millions) FY 2012 FY 2013 oco Total Base Contract Target Method Performing All Prior Cost To Value of Award Award Award Award Total **Cost Category Item** & Type **Activity & Location** Years Cost Date Date Cost Cost Date Cost Complete Cost Contract Cost **Date Technical Support TBD** TBD:TBD 0.000 2.331 0.327 0.327 Continuing Continuing 0.000 Subtotal 0.000 0.000 2.331 0.327 0.000 0.327 0.000 Target All Prior FY 2014 FY 2014 FY 2014 Cost To Total Value of Years FY 2012 FY 2013 Base oco Total Complete Cost Contract 0.000 0.000 7.581 1.306 0.000 1.306 0.000 **Project Cost Totals**

Remarks

Army

PE 0303140A: Information Systems Security Program

Page 16 of 30

DATE: April 2013 Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE **PROJECT**

2040: Research, Development, Test & Evaluation, Army PE 0303140A: Information Systems 501: Army Key Mgt System

BA 7: Operational Systems Development Security Program

FY 2012			2		FY 2013			FY 2014			FY 2015			FY 2016			FY 2017			FY 2018							
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

Mission Planning Mission Support System (MP/ MSS) Interface

Page 17 of 30

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

2040: Research, Development, Test & Evaluation, Army PE 0303140A: Information Systems 501: Army Key Mgt System

BA 7: Operational Systems Development Security Program

Schedule Details

	St	art	Eı	nd
Events	Quarter	Year	Quarter	Year
Mission Planning Mission Support System (MP/MSS) Interface	2	2014	4	2018

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2014 A	Army							DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development						NOMENCLA 10A: Informa rogram	ATURE ation System	T Management Infrastructure (KMI)				
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
DV4: Key Management Infrastructure (KMI)	-	0.000	0.000	1.502	-	1.502	2.653	2.725	2.200	2.100	Continuing	Continuing
Quantity of RDT&E Articles												

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Note

Army

Key Managament Infrastructure (KMI) (DV4) is a new project in FY2014 which supports infrastructure requirements in support of Key Managment.

A. Mission Description and Budget Item Justification

Key Management Infrastructure (KMI) provides an integrated, operational environment that brings essential key management personnel and functions in-band. KMI achieves an over the network keying (OTNK) management solution to support emerging cryptographically modernized systems. The KMI client nodes are the Army's subset of the National Security Agency's (NSA's) KMI System supporting Department of Defense (DoD) Global Information Grid (GIG) Net Centric and Crypto Modernization Initiatives. The Mission Planning/ Mission Support System (MP/MSS) Interface for KMI will create a secure and highly automated interface to enable transparent provisioning of KMI products. The interface shall facilitate transparent communications between MP/MSS and KMI to achieve integration by bridging the gap between provisioning services and the communications net plan of the WarFighter. Updates relative to Key Management requirements to the MP/MSS Interface Specification and additional capabilities for the interface are scheduled to begin in FY2014. The MP/MSS Interface Specification defines the interface between the KMI Management Client Node (MGC) and the Mission Planning System operating on the Secure Internet Protocol Router Network (SIPRNET). This interface definition covers the key ordering, management and distribution transactions that were decomposed based upon an Army Mission Planning System collaborating with KMI to fulfill mission requirements in a highly automated manner.

Additional MP/MSS capabilities projected to be developed include 1) registration of MP/MSS identities, 2) validations required for digital signature based on KMI and other medium assurance Public Key Infrastructure (PKI), 3) allowing the exchange of an electronic equivalent of a signed SF-153 (Hand Receipt, Destruction, Inventory, etc) and 4) integrating MP/MSS Application Program Interface (API) into the Army Mission Planner - Joint Tactical Network Environment NetOps Toolkit (JTNT).

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Key Management Infrastructure (KMI) Awareness	0.000	0.000	1.502
Description: Key Management Infrastructure Awareness initiative creates a secure, highly automated interface in providing future Over the Network Keying (OTNK) capability to legacy End Crypto Units (ECUs). This initiative will allow ECUs to receive,			

PE 0303140A: Information Systems Security Program

Page 19 of 30

^{##} The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army	DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0303140A: Information Systems	DV4: Key I	Management Infrastructure (KMI)
BA 7: Operational Systems Development	Security Program		

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
authenticate, and decrypt OTNK messages and increases WarFighter survivability by minimizing the need for Soldiers to travel to			
obtain keys.			
FY 2014 Plans:			
Additional Mission Planning/ Mission Support System (MP/MSS) capabilities projected to be developed include 1) registration of			
MP/MSS identities, 2) validations required for digital signature based on Key Management Infrastructure (KMI) and other medium			
assurance Public Key Infrastructure (PKI), 3) allowing the exchange of an electronic equivalent of a signed SF-153 (Hand Receipt,			
Destruction, Inventory, etc) and 4) integrating MP/MSS Application Program Interface (API) into the Army Mission Planner - Joint			
Tactical Network Environment NetOps Toolkit (JTNT).			
Accomplishments/Planned Programs Subtotals	0.000	0.000	1.502

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

		-	FY 2014	FY 2014	FY 2014					Cost To	
<u>Line Item</u>	FY 2012	FY 2013	Base	OCO	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Total Cost
B96004: Key Management			10.821		10.821	9.001	9.090	9.163	9.327	Continuing	Continuing
Infrastructure											
BA1201: TSEC - Army Key Mgt	12.541	23.432	13.890		13.890	34.112	34.731	35.179	35.500	Continuing	Continuing
Sys (AKMS)											
• 501: Army Key Management			1.306		1.306	2.411	2.338	2.185	2.500	Continuing	Continuing
System (AKMS)											

Remarks

Line Item & Title:

B96004: Key Management Infrastructure (OPA2)

BA1201: TSEC-AKMS (OPA2)

501: Army Key Management System (RDTE)

D. Acquisition Strategy

Army Key Management Infrastructure (AKMI) is the Army's implementation of the National Security Agency's (NSAs) Key Management Infrastructure (KMI) ACAT ID program. The initial Army Acquisition Program Baseline (APB) for its implementation of KMI was signed on 26 Jan 2012. KMI Clients purchased in FY2012 were Low Rate Initial Production (LRIP) Management Clients (MGCs). Deliveries are scheduled to begin in March 2013. KMI MGCs purchased in FY2013 will be Full Rate Production (FRP) MGCs with deliveries beginning 12 months after FRP contract award. RDTE efforts are underway to provide communication within the KMI architecture for legacy devices. Current sunset for Electronic Key Management System (EKMS) is scheduled for December 2017.

UNCLASSIFIED

PE 0303140A: Information Systems Security Program Army Page 20 of 30 R-1 Line #174

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0303140A: Information Systems Security Program	PROJECT DV4: Key N	Management Infrastructure (KMI)
E. Performance Metrics			
Performance metrics used in the preparation of this justification material may	be found in the FY 2010 Army Performance B	udget Justif	ication Book, dated May 2010.

PE 0303140A: *Information Systems Security Program* Army

UNCLASSIFIED
Page 21 of 30

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

2040: Research, Development, Test & Evaluation, Army

PE 0303140A: Information Systems

BA 7: Operational Systems Development

Security Program

DV4: Key Management Infrastructure (KMI)

Product Developme	Product Development (\$ in Milli			FY 2	2012	FY 2	013	FY 2 Ba		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Technical Support	C/CPFF	Science Applications International Corporation:Linthicum MD	0.000	-		-		0.601	May 13	-		0.601	Continuing	Continuing	Continuing
Technical Support	MIPR	CERDEC:APG, MD	0.000	-		-		0.901	Jan 13	-		0.901	Continuing	Continuing	Continuing
		Subtotal	0.000	0.000		0.000		1.502		0.000		1.502			
															Target

	All Prior Years	FY 2	2012	FY 2	2013	FY 2 Ba		2014 FY 2014 CO Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000		0.000		1.502	0.000	1.502	2		

Remarks

PE 0303140A: Information Systems Security Program Army

Page 22 of 30

DATE: April 2013 Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE **PROJECT** 2040: Research, Development, Test & Evaluation, Army PE 0303140A: Information Systems DV4: Key Management Infrastructure (KMI) BA 7: Operational Systems Development Security Program

		FY 2	2012	2		FY	2013	3		FY	2014	1		FY 2	2015	;		FY 2	2016	6		FY 2	2017	,		FY 2	2018	
	1	2	3	4	1	2		4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
KMI Awareness Development and Testing																												

Schedule Details

	St	art	Eı	nd
Events	Quarter	Year	Quarter	Year
KMI Awareness Development and Testing	1	2014	4	2018

Exhibit R-2A, RDT&E Project J	Justification	: PB 2014 A	\rmy							DATE : Apr	il 2013				
APPROPRIATION/BUDGET AC 2040: Research, Development, BA 7: Operational Systems Deve	Test & Evalua	ation, Army			1		ATURE ation Syster	PROJECT DV5: Crypt	ECT Crypto Modernization (Crypto Mod)						
COST (\$ in Millions)	All Prior Years		FY 2013 [#]	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost			
DV5: Crypto Modernization (Crypto Mod)	-	0.000	0.000	1.436	-	1.436	2.774	2.497	2.400	2.300	Continuing	Continuing			
Quantity of RDT&E Articles															

^{*}FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

Note

Army

Key Managament Infrastructure (KMI) (DV4) is a new project in FY2014 which supports infrastructure requirements in support of COMSEC.

A. Mission Description and Budget Item Justification

This program supports the implementation of the National Security Agency (NSA) developed Communications Security (COMSEC) technologies into the Army by providing COMSEC system capabilities through encryption, trusted software or standard operating procedures, and integrating these mechanisms into specified systems in support of securing the National Network Enterprise in as transparent a manner as possible.

This entails architecture studies, system integration and testing, installation kits, and certification and accreditation of Automation Information Systems. The program assesses, develops and integrates emerging information assurance (IA)/COMSEC tools (hardware and software) which provide protection for fixed infrastructure post, camp and station networks as well as efforts on tactical networks. The cited work is consistent with Strategic Planning Guidance and the Army Modernization and Strategy Plan.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Crypto Solutions for Low Bandwidth Communications at the Tactical Edge	0.000	0.000	0.520
Description: This program creates tools that can be used with current and future methodologies in order to determine what amount of cryptographic solutions can be deployed at the tactical edge. This experimentation will allow for the WarFighter to have optimized solutions tailored for their specific program requirements while also showing trade-offs between competing solutions. Examples of common analysis to be performed are comparisons in encryption implementations, network initialization overhead, comparison of emerging Commercial Solutions for Classified architectures with COMSEC architectures, development of new network security and management protocols optimized for low-bandwidth environments and impact of emerging dynamic capabilities that evade or obstruct the adversary.			
FY 2014 Plans: Develop software for use in NS-2 and/or OPNet environments to target specific comparisons in COMSEC diversity and also comparisons with Commercial Solutions for Classified architectures. Study existing network security and management protocols			

PE 0303140A: Information Systems Security Program

Page 25 of 30

^{##} The FY 2014 OCO Request will be submitted at a later date

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Exhibit R-2A, RDT&E Project Justi	fication: PB	2014 Army							DATE: A	pril 2013	
APPROPRIATION/BUDGET ACTIV	ITY			R-1 IT	EM NOMEN	CLATURE		PROJ	ECT		
2040: Research, Development, Test	& Evaluation,	Army		PE 03	03140A: <i>Inf</i> o	ormation Sys	tems	DV5: 0	Crypto Moderi	nization (Cry	pto Mod)
BA 7: Operational Systems Develope	ment			Securi	ity Program						
B. Accomplishments/Planned Pro	grams (\$ in N	Millions)							FY 2012	FY 2013	FY 2014
to identify areas of improvement and discovery servers and key management that make networks and hosts less of	nent infrastruc			•							
Title: VINSON/ANDVT (Advanced N	larrowband D	igital Voice	Terminal) Cr	yptograph M	lodernizatior	n (VACM) pro	ogram		0.000	0.000	0.916
cryptographic devices such as the K integrity and availability of classified ensure a successful fielding. Each see FY 2014 Plans: The program will continue to test and system to confirm capability and integrity with COMSEC regulations and process.	communication continuate released evaluate ad roperability o	ons, the crypse will requi	otographic m re testing to otypes of VII	nodules must insure comp	t be tested for an order to the test of th	or interoperal I interoperab odernization	bility and forr ility. (VACM) with	n fit to			
				Accon	nplishment	s/Planned P	rograms Su	btotals	0.000	0.000	1.436
C. Other Program Funding Summa	ary (\$ in Milli	ons)	FY 2014	FY 2014	FY 2014					Cost To	,
Line Item	FY 2012	FY 2013	Base	OCO	Total	FY 2015	FY 2016	FY 201	7 FY 2018	Complete	-
• 491: Information Assurance Development	15.684		5.113		5.113	9.644	9.156	8.35		Continuing	
TA0600: Information System Security Program - ISSP	37.022	43.987	23.245		23.245	19.352	7.509	11.91	3 3.363	3 Continuing	Continuing
B96002: Cryptographic Systems (Crypto Sys)			13.890		13.890	14.140	14.394	14.65	3 14.889) Continuing	Continuing
• BS9716: NON PEO-SPARES	2.384	2.412	2.093		2.093	3.843	2.712	2.59	7 8.800	Continuing	Continuing

Remarks

491 - Information Assurance Developemnt - RDTE funds - 2 lines: 5F and OA22(G6)

TA0600 - Information System Security Program - OPA2 funds

B96002 - Cryptographic Systems - OPA2 funds

PE 0303140A: Information Systems Security Program

BS9716 - NON PEO-SPARES - OPA4 funds

UNCLASSIFIED

Page 26 of 30

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0303140A: Information Systems	DV5: Crypt	to Modernization (Crypto Mod)
BA 7: Operational Systems Development	Security Program		

D. Acquisition Strategy

The objective of this program is to integrate and validate hardware and software solutions to provide COMSEC superiority in order to protect against threats, increase battlefield survivability/lethality, and enable critical Mission Command activities. The objective of the Cryptographic Systems program is to provide adaptive, flexible, and programmable cryptographic systems using best practices, lessons learned and programmatic management to meet the challenge of modernizing the Army's aging cryptographic systems. The effort will support the network operations from end-to-end throughout the force and the Common Operating Environment (COE) thus mitigating IA networked vulnerabilities to National information security systems.
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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0303140A: Information Systems

Security Program

PROJECT

DV5: Crypto Modernization (Crypto Mod)

DATE: April 2013

Product Development (\$ in Millions)				FY 2012		FY 2	2013	FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
System Engineering	C/FFP	CECOM RDEC:APG, MD	0.000	-		-		0.388	Jan 13	-		0.388	Continuing	Continuing	Continuing
Engineering Support	C/FP	CACI:Aberdeen Maryland	0.000	-		-		0.359	Mar 13	-		0.359	Continuing	Continuing	0.000
Engineering Support	C/CPFF	Booz Allen Hamilton (BAH):APG, MD	0.000	-		-		0.215	May 13	-		0.215	Continuing	Continuing	0.000
Engineering Support	C/CPFF	AASKI:Edgewood, Maryland	0.000	-		-		0.359	Aug 13	-		0.359	Continuing	Continuing	0.000
Information Assurance System Engineering Support	C/FFP	DSCI:Aberdeen, Maryland	0.000	-		-		0.115	May 13	-		0.115	Continuing	Continuing	0.000
		Subtotal	0.000	0.000		0.000		1.436		0.000		1.436			
			All Prior Years	FY 2	2012	FY 2	2013	FY 2 Ba	2014 ise	FY 2	2014 CO	FY 2014 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals			0.000	0.000		0.000		1.436		0.000		1.436			

Remarks

PE 0303140A: *Information Systems Security Program* Army

Page 28 of 30

R-1 Line #174

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

2040: Research, Development, Test & Evaluation, Army PE 0303140A: Information Systems DV5: Crypt

BA 7: Operational Systems Development Security Program

DV5: Crypto Modernization (Crypto Mod)

	FY 2012		FY 2013			FY 2014			FY 2015			FY 2016				FY 2017			FY 2018									
	1	2	3	4	1	2	3	4	1	2	2 3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
VACM interoperability																												

DATE: April 2013 Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE **PROJECT**

2040: Research, Development, Test & Evaluation, Army PE 0303140A: Information Systems DV5: Crypto Modernization (Crypto Mod) BA 7: Operational Systems Development

Security Program

Schedule Details

	St	art	End			
Events	Quarter	Year	Quarter	Year		
VACM interoperability	4	2013	4	2016		