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

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

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

PE 0604818A: Army Tactical Command & Control Hardware & Software

,		'										
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	-	91.490	77.223	22.958	-	22.958	42.754	46.240	34.933	35.451	Continuing Co	ontinuing
323: Common Hardware Systems	-	7.664	8.012	5.813	-	5.813	9.312	16.425	8.051	8.000	Continuing Co	ontinuing
334: Common Software	-	43.313	0.127	1.453	-	1.453	2.511	2.372	2.261	2.528	Continuing Co	ontinuing
C29: Centralized Technical Support Facility (CTSF)	-	12.584	20.579	4.656	-	4.656	10.343	9.529	7.928	7.923	Continuing Co	ontinuing
C34: Army Tac C2 Sys Eng	-	15.169	48.505	11.036	-	11.036	20.588	17.914	16.693	17.000	Continuing Co	ontinuing
JN1: JOINT NETWORK NODE (JNN) TESTING	-	12.760	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing Co	ontinuing

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

Note

Reductions reflect reallocation of funds to higher-priority Army efforts.

A. Mission Description and Budget Item Justification

The umbrella program to exploit automation technology for the conduct of combat operations is the Army Tactical Command and Control System (ATCCS) program which is a component of the Army Battle Command System (ABCS). The ATCCS program provides automation in the five battlefield functional areas (BFAs) with the following specific systems: (1) Maneuver Control System (MCS); (2) Effects and Fires Command and Control Systems (EFCCS); (3) All Source Analysis System (ASAS) for Intelligence/Electronic Warfare; (4) Forward Area Air Defense Command, Control and Intelligence System (FAADC2I); and (5) Battle Command Sustainment Support System (BCS3). To provide an overall technically sound, cost effective, and operationally responsive approach, the design and development of ATCCS must be accomplished on a total systems basis. The Common Hardware Systems (CHS) program provides state-of-the-art, fully qualified, interoperable, compatible, deployable, and survivable hardware and computer networking equipment for command, control, and communications at all echelons of command for the United States Army and other Department of Defense (DoD) services. CHS services are provided through strategically located contractor-operated Regional Support Centers (RSC) for tactical military units and management of a comprehensive 5-year warranty and 72-hour turnaround for repairs.

Common Software (CS) is the program through which the Army procures, develops, integrates and tests common software products and/or components used for communication between ABCS, Joint and coalition Command and Control (C2) applications. The CS project provides state-of-the-art software technologies and functionality that is used by numerous Army Battle Command Systems (ABCS) and joint systems to eliminate the need for service independent development and duplication of effort. The CS project also manages and performs technology demonstrations of emerging technologies for future use by Army C2 systems. The CS program is a cornerstone in the Army's digitization efforts. Funding supports on-going development of common software solutions and the technical evaluation of previously developed software capabilities for integration into the computing environments of the Army COE architecture to include appropriate Mounted and

^{##} 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

R-1 ITEM NOMENCLATURE

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

PE 0604818A: Army Tactical Command & Control Hardware & Software

Mobile Computing environments. Efforts will include assessment of softwarematurity and readiness, development/modification of software as necessary to integrate, integration with common computing environments, and validation.

This program element also includes the Central Technical Support Facility (CTSF) which is the Army's single strategic facility responsible for executing SoS Interoperability checkout, testing, physical system integration and configuration management of the Army's LandWarNet Baseline.

The Technical Management Division (TMD) effectively manages the engineering, Enterprise and Integration efforts within the Program Executive Office Command, Control, Communication and Tactical (PEO C3T) portfolio of technology and across the capability enhancement packages to deliver efficient and effective cross-domain technical solutions. TMD efforts will focus on System-of-Systems (SOS) engineering and integration for evolution of the network (Warfighter Information Network-Tactical, Joint Tactical Radio System) and associated services (Unified Battle Command, Joint Battle Command-Platform, Net-Enabled Command Capability, Network Service Center) with increased emphasis on immediate Warfighter needs as well as leveraging emerging technologies. TMD efforts support working Army Network Modernization strategy and implementation to include: network integration; emerging technologies; coordination of network services; current and force integrated Command, Control, Communications, Computers, Combat Systems, Intelligence, Surveillance, and Reconnaissance (C5ISR) network/transport architectures; integrated developmental, technical, and operational test schedules/documentation; and the tactical assessment and execution of the enterprise implementation and framework. TMD synchronizes the integration of many Headquarters, Department Of The Army (HQDA) initiatives and also oversees the technical analysis supporting the Army Common Operating Environment (COE) Assessment and implementation.

The JNN Warfighter Information Network-Tactical (WIN-T Increment 1) is intended to replace MSE while moving the Army to a unified EOIP Communications System. JNN Testing is the Increment 1b Technical Insertion to Increment 1a for Operational Test, which was conducted in FY 2012 in conjunction with the Increment 2 Initial Operational Test and Evaluation. These systems support the Legacy to Objective transition path. The network is capable of passing unclassified and classified traffic, throughout its entire structure, from Home Station Operations center to the furthest forward Battalion Elements. Designed to meet modularity and rapid deployment mandate, the network is

B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	93.846	77.223	47.468	-	47.468
Current President's Budget	91.490	77.223	22.958	-	22.958
Total Adjustments	-2.356	0.000	-24.510	-	-24.510
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
SBIR/STTR Transfer	-	-			
 Adjustments to Budget Years 	-	-	-24.510	-	-24.510
Other Adjustments 1	-2.356	-	-	-	-

Exhibit R-2A, RDT&E Project J	ustification	: PB 2014 <i>P</i>	Army					DATE: April 2013							
APPROPRIATION/BUDGET AC 2040: Research, Development, T BA 5: System Development & De	lopment, Test & Evaluation, Army					NOMENCL 18A: Army 1 ardware & S	Tactical Con	PROJECT 323: Comr	ECT ommon Hardware Systems						
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			
323: Common Hardware Systems	-	7.664	8.012	5.813	-	5.813	9.312	16.425	8.051	8.000	Continuing	Continuing			
Quantity of RDT&E Articles															

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

A. Mission Description and Budget Item Justification

The Common Hardware Systems (CHS) program provides tactical, state-of-the-art, fully qualified, interoperable, compatible, deployable, and survivable hardware and computer networking equipment for command, control, and communications at all echelons of command for the United States Army and other Department of Defense (DoD) services. CHS also provides worldwide repair, maintenance, logistics, and technical support through strategically located contractor-operated Regional Support Centers (RSC) for tactical military units and management of a comprehensive 5-year warranty and 72-hour turnaround for repairs.

FY 2014 funds allow CHS to continue to manage the acquisition and delivery of CHS equipment, technology insertion (adding new hardware to contract) and common standardized testing in support of customer requirements. CHS will begin CHS-5 contract pre-award activities.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Title: Acquisition management/delivery of CHS equipment in support of customer requirements		6.864	7.212	5.313
	Articles:	0	0	
Description: Funding is provided for the following effort				
FY 2012 Accomplishments: Will continue the management of the acquisition/delivery of CHS equipment in support of customer requirements				
FY 2013 Plans: Will continue the management of the acquisition/delivery of CHS equipment in support of customer requirements				
FY 2014 Plans: Will continue the management of the acquisition/delivery of CHS equipment in support of customer requirements				
Title: CHS equipment testing efforts	Articles:	0.300 0	0.300 0	0.000
Description: Funding is provided for the following effort				

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^{##} 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 0604818A: Army Tactical Command &	323: Common Hardware Systems
BA 5: System Development & Demonstration (SDD)	Control Hardware & Software	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: Future CHS customer testing efforts			
FY 2013 Plans: Will continue to support CHS customer testing efforts			
Title: CHS technology insertion	0.500	0.500	0.500
Articles:	0	0	
Description: Funding is provided for the following effort			
FY 2012 Accomplishments: Continue CHS technology insertion			
FY 2013 Plans: Continue CHS technology insertion			
FY 2014 Plans: Continue CHS technology insertion			
Accomplishments/Planned Programs Subtotals	7.664	8.012	5.813

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

N/A

Remarks

Not applicable for this item.

D. Acquisition Strategy

The overall goal is to improve interoperability and compatibility and lower life cycle costs by standardizing battlefield command and control automation and other warfighting systems (net centric, etc) through centralized buys of modified/ruggedized non-developmental items. This project provides a coherent migration strategy for acquisition of warfighting systems through the use of technology insertion.

CHS also conducts common environmental and developmental testing of hardware items thereby reducing the testing requirements for individual Project Managers. An Indefinite Delivery/Indefinite Quantity firm fixed priced, full and open competition contract was awarded to General Dynamics in May 2003, for ruggedization and production.

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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 0604818A: Army Tactical Command &	323: Common Hardware Systems
BA 5: System Development & Demonstration (SDD)	Control Hardware & Software	
In August 2011, CHS awarded, on a best value basis, the follow-on CHS-4 for Tactical PORs to meet hardware and associated services requirements network integration activities, capability set development, and transport nee	through full and open competition and to provid	
E. Performance Metrics		
Performance metrics used in the preparation of this justification material ma	ay be found in the FY 2010 Army Performance E	Budget Justification Book, dated May 2010.

PE 0604818A: Army Tactical Command & Control Hardware & Softwar... Army

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

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

R-1 ITEM NOMENCLATURE PROJECT
PE 0604818A: Army Tactical Command & 323: Comm

Control Hardware & Software

323: Common Hardware Systems

Product Developme	nt (\$ in Mi	llions)		FY 2	2012	FY 2	2013	FY 2 Ba	2014 ise	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	Total Cost	Target Value of Contract
Support Costs	C/FP	Various:Various	68.226	3.657	Dec 2011	3.730	Dec 2012	2.575	Dec 2013	-		2.575	Continuing	Continuing	Continuing
Product Development	C/FP	Various:Various	77.908	3.207	Dec 2011	3.482	Dec 2012	2.738	Dec 2013	-		2.738	Continuing	Continuing	Continuing
CHS-3 Non Recurring Engineering	C/FFP	General Dynamics:Taunton, MA	17.500	-		-		-		-		-	0.000	17.500	0.000
CHS-4 Non-Recurring Engineering	C/FP	Various:Various	14.150	-		-		-		-		-	Continuing	Continuing	Continuing
Technology Insertion	C/FP	Various:Various	14.277	0.500	Dec 2011	0.500	Dec 2012	0.500	Dec 2013	-		0.500	Continuing	Continuing	Continuing
		Subtotal	192.061	7.364		7.712		5.813		0.000		5.813			

Test and Evaluation (tion (\$ 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	Total Cost	Target Value of Contract
CHS Test Activities	Various	Other Government Activities:various	2.354	0.300	Dec 2011	0.300	Dec 2012	-		-		-	Continuing	Continuing	Continuing
		Subtotal	2.354	0.300		0.300		0.000		0.000		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
Project Cost Totals	194.415	7.664	8.012	5.813	0.000	5.813			

Remarks

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE

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

2040: Research, Development, Test & Evaluation, Army PE 0604818A: Army Tactical Command & BA 5: System Development & Demonstration (SDD) Control Hardware & Software

323: Common Hardware Systems

PROJECT

		FY 2012			FY 2013			FY 2014			FY 2015				FY 2016				FY 2017				FY 2018				
	1	2	. ∣ა	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
CHS-5 Contract Award								,			,																

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 0604818A: Army Tactical Command & 323: Common Hardware Systems BA 5: System Development & Demonstration (SDD) Control Hardware & Software

Schedule Details

	St	art	E	ind
Events	Quarter	Year	Quarter	Year
CHS-5 Contract Award	1	2015	1	2015

APPROPRIATION/BUDGET ACTIVITY
2040: Research, Development, Test & Evaluation, Army
BA 5: System Development & Demonstration (SDD)

AII Prior Years FY 2012 FY 2013*

R-1 ITEM NOMENCLATURE
PE 0604818A: Army Tactical Command & Control Hardware & Software

R-1 ITEM NOMENCLATURE
PE 0604818A: Army Tactical Command & Control Hardware & Software

FY 2014 FY 2014 Total FY 2015 FY 2016 FY 2017 FY 2018 Complete Cost

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
334: Common Software	-	43.313	0.127	1.453	-	1.453	2.511	2.372	2.261	2.528	Continuing	Continuing
Quantity of RDT&E Articles												

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

Note

Not applicable for this item.

A. Mission Description and Budget Item Justification

Project 334 Common Software (CS): CS is the program through which the Army develops, integrates and tests common software products and/or components used for communication between Army Mission Command Systems and Joint and coalition Command and Control (C2) applications. The CS project provides state-of-the-art software technologies and functionality that is used by numerous Mission Command (MC) and joint systems to eliminate the need for service independent development and duplication of effort. The CS project also manages and performs technology demonstrations of emerging technologies for future use by Army C2 systems. The CS program is a cornerstone in the Army's digitization efforts.

FY14 funding supports on-going development of common software solutions and the technical evaluation of previously developed software capabilities for integration into the computing environments of the Army Common Operating Environment (COE) architecture to include appropriate Mounted and Mobile Computing environments. Efforts will include assessment of software maturity and readiness, development/modification of software as necessary to integrate, integration with common computing environments, and validation.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: MC systems single common software enterprise infrastructure development in support of Army and Joint Services requirements.	8.455 0	0.000	0.000
Articles:			
Description: Funding is provided for the following effort			
FY 2012 Accomplishments: Will continue the development, acquisition management and delivery of the MC common software enterprise infrastructure in support of Army and Joint Services requirements.			
Title: Joint and Coalition interoperability efforts.	1.006	0.127	0.000
Articles:	0	0	

PE 0604818A: Army Tactical Command & Control Hardware & Softwar... UNCLASSIFIED

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

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DA	Γ E : April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT		
2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)	PE 0604818A: Army Tactical Command & Control Hardware & Software	334: Common	Software	
, , ,				
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)	FY 201	2 FY 2013	FY 2014
Description: Funding is provided for the following effort				
FY 2012 Accomplishments: Will continue to serve as the executive agent and provide softwar	e for interoperability of Joint and Coalition efforts.			
FY 2013 Plans: Will continue to serve as the executive agent and provide softwar	e for interoperability of Joint and Coalition efforts.			
Title: Mission Command (MC) systems common software service		1.8	0.000	0.000
Description: Funding is provided for the following effort				
FY 2012 Accomplishments: Will continue to develop and evolve the System of System (SoS) mediation, tactical messaging, addressing and network initialization Tool)	on and management through the WIT (Warfighter Initializati			
Title: Integration of previously developed and currently required n solutions into the Army COE and Command Post Computing Env	ironment.	31.9 ticles:	0.000	1.45
Description: Funding is provided for the following effort.				
FY 2012 Accomplishments: Technical evaluation of previously developed software capabilities. Common Operating Environment (COE) architecture to include a will include assessment of software applicability to the core infrasintegrate, integration with common computing environments, and	opropriate Mounted and Mobile Computing environments. tructure, development/modification of software as necessal	Efforts		
FY 2014 Plans: Technical evaluation of previously developed software capabilities. Common Operating Environment (COE) architecture to include ap will include assessment of software applicability to the core infras integrate, integration with common computing environments, and	opropriate Mounted and Mobile Computing environments. tructure, development/modification of software as necessar	Efforts		
	Accomplishments/Planned Programs Sub	ototals 43.3	313 0.127	1.45

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PE 0604818A: Army Tactical Command & Control Hardware & Softwar... Page 10 of 39 R-1 Line #109 Army

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

2040: Page 2040 Army Testing Command & 2341 Command Software

2040: Research, Development, Test & Evaluation, Army

BA 5: System Development & Demonstration (SDD)

PE 0604818A: Army Tactical Command & Control Hardware & Software

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

N/A

Remarks

Not applicable.

D. Acquisition Strategy

In accordance with the approved Net-enabled Mission Command Initial Capabilities Document (NeMC ICD), software capability will be developed in 2-year increments as capability sets designed to facilitate messaging, mediation and addressing for Army, Joint and Coalition Partners in synchronization with the maturity of the Common Operating Environment (COE) and Command Post Computing Environment (CP CE) architecture baselines. The product development funded under this R-Form is an integral part of the Mission Command systems, and a core communication component of the virtualized infrastructure and will be accomplished primarily under a Project Manager, Mission Command (PM MC) system of systems contract approach which consists of multiple prime contracts awarded from a single solicitation that will require each specific development task be competed among primes whenever possible. This strategy is designed to optimize opportunities for improved interoperability among the systems, to capture the benefits of competition, and to ensure the rapid integration of new capabilities into warfighter systems. This strategy is also designed to reduce the physical footprint, the logistics support requirements, and to increase operational efficiency by integration of additional system interoperability services which reduce duplication of effort and cost; and allows for development of communication standards across the DoD community.

The overall acquisition goal of the CS program is the improvement of life cycle cost efficiencies by providing common products that are used horizontally across programs, thereby avoiding duplications of effort by Army and Joint programs.

E. Performance Metrics

Army

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.

PE 0604818A: Army Tactical Command & Control Hardware & Softwar... UNCLASSIFIED

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

APPROPRIATION/BUDGET ACTIVITY

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

R-1 ITEM NOMENCLATURE

PE 0604818A: Army Tactical Command & Control Hardware & Software

PROJECT

334: Common Software

DATE: April 2013

Management Service	s (\$ in M	illions)		FY 2	2012	FY 2	2013	FY 2 Ba	2014 ise	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	Total Cost	Target Value of Contract
Program Office Management	Various	PM Mission Command:Various	8.414	0.747	Jan 2012	0.127		0.320	Jan 2014	-		0.320	Continuing	Continuing	0.000
	•	Subtotal	8.414	0.747		0.127		0.320		0.000		0.320			0.000

Product Developmen	nt (\$ in Mi	illions)		FY	2012	FY 2	2013		2014 ise	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	Total Cost	Target Value of Contract
CS Product Engineering/ Software Development	C/CPFF	Future Skies:Wall Township, NJ	115.135	7.721	Feb 2012	-		-		-		-	Continuing	Continuing	0.000
Mission Command/Army System Engineering & Integration	Various	CACI:Various	4.731	0.816	May 2012	-		1.133	Jan 2014	-		1.133	Continuing	Continuing	0.000
Mission Command System of Systems Architecture Development	Various	Various Contractors / Various Locations:Various	13.228	1.158	Mar 2012	-		-		-		-	Continuing	Continuing	0.000
Evaluation, modification, validation and integration of developed SW	Various	Various:Various	0.000	30.913	Jul 2012	-		-		-		-	Continuing	Continuing	0.000
		Subtotal	133.094	40.608		0.000		1.133		0.000		1.133			0.000

Support (\$ in Million	s)			FY 2	2012	FY 2	2013	FY 2 Ba	2014 ise	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	Total Cost	Target Value of Contract
Program Support	Various	PM Mission Command:Various	6.939	0.567	Apr 2012	-		-		-		-	Continuing	Continuing	0.000
Technical Support	Various	CACI / Various Contractors:APG, MD	1.948	0.191	Apr 2012	-		-		-		-	Continuing	Continuing	0.000
		Subtotal	8.887	0.758		0.000		0.000		0.000		0.000			0.000

PE 0604818A: Army Tactical Command & Control Hardware & Softwar...
Army

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

R-1 ITEM NOMENCLATURE PROJECT

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

PE 0604818A: Army Tactical Command &

334: Common Software

BA 5: System Development & Demonstration (SDD)

Control Hardware & Software

Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	2013		2014 ase	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 Complete	Total Cost	Target Value of Contract
Developmental Test	Various	Various Contractors/ Various locations:Various	5.945	1.200	Feb 2012	-		-		-		-	Continuing	Continuing	0.000
		Subtotal	5.945	1.200		0.000		0.000		0.000		0.000			0.000
			All Prior Years	FY 2	2012	FY 2	2013		2014 ase	FY 2	2014 CO	FY 2014 Total	Cost To	Total Cost	Target Value of Contract
		Project Cost Totals	156.340	43.313		0.127		1.453		0.000		1.453			0.000

Remarks

Exhibit R-2A, RDT&E Project J	ustification	: PB 2014 A	Army							DATE: Apr	il 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)					PE 06048	NOMENCLA 18A: Army 7 ardware & S	actical Com	PROJECT C29: Centr (CTSF)	T ntralized Technical Support Facility			
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
C29: Centralized Technical Support Facility (CTSF)	-	12.584	20.579	4.656	-	4.656	10.343	9.529	7.928	7.923	Continuing	Continuing
Quantity of RDT&E Articles												

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

PE 0604818A: Army Tactical Command & Control Hardware & Softwar...

A. Mission Description and Budget Item Justification

Project C29 - Centralized Technical Support Facility: The Central Technical Support Facility (CTSF) is the Army's premier test and certification facility for System of Systems interoperability. It is the Army's strategic facility responsible for conducting engineering support associated with test integration of Army Mission Command architectures into the Army Interoperability Certification (AIC) system of systems environment, performing AIC testing and conducting configuration management for all operational and tactical level applications (individual systems, System of Systems, and Families of Systems) prior to fielding. The CTSF provides validated test data to the Department of the Army and Joint agencies to accredit interoperability certifications. The current expansion of the distributed test environment of the CTSF will be accomplished through the Federation of Net-centric Sites (FaNS) construct. This FaNS construct addresses distributed integration development and testing using the core infrastructure of the CTSF to harness AMC, Army, and Joint expertise/resources. Through these federated resources, the CTSF will execute interoperability development and certification testing of the Warfighter and Business mission areas, to include Brigade Combat Team Modernization spin-outs, as they digitize and become part of the Army's LandWarNet.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014	
Title: Army Interoperability Certification (AIC) Testing	6.584	10.290	1.955	
Articles:	0	0		
Description: Description: Conduct Army Interoperability Certification testing/planning/data collection/ data analysis/reporting, interoperability baseline testing, simulation/stimulation validation and distributed testing. Manage the set-up, configuration, integration, and operations and maintenance of the LandWarNet systems on the test floors as the CIO/G-6's Test Agent for Program Managers of LandWarNet systems that need to deliver software updates for fielding to the Warfighter. Report the results of Army Interoperability Certification Tests to the CIO/G-6, PM, and TRADOC to support updates to the G-3/5/7 managed baseline.				
FY 2012 Accomplishments: SWB1 is no longer fielded; testing of SWB1 is no longer required; SWB2 is still fielded; limited changes occur. Continued CS 11-12 Tri-Annual and CS 13-14/COE V1.0 baseline AIC test planning, test case development, preparation of test floor architecture design to include information assurance software/ compliance, test tools, and test execution; prepared to conduct CS 13-14/COE V1.0 testing/evaluation and certification. Continued to coordinate with PEO C3T Tactical Network Initialization for baseline Data				

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

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DA	FE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)	PE 0604818A: Army Tactical Command &	PROJECT C29: Centralize (CTSF)	ed Technical Su	pport Facility
B. Accomplishments/Planned Programs (\$ in Millions, Article Qua	ntities in Each)	FY 201	2 FY 2013	FY 2014
Products and to incorporate the go-to-war Data Products into AIC tests test methodology to assess interoperability as systems transition to the (COE). Supported EPG, ATEC, and OCSE as they develop new test t distributed testing as the CIO/G-6 Federated Army Network Site's (Fall system architecture.	e implementation of the Common Operating Environment to collect data in support of the COE. Facilitated			
FY 2013 Plans: Continue COE 1.0 (formerly SWB 13-14) test planning, test case deve supporting ASA(ALT) with integration and interoperability event (I2E) v instrumentation; upgrade/refresh test floor hardware (routers, switched out network infrastructure required for Army's next baseline (COE 1.0) virtualization; establish operationally relevant infrastructure to prove-outeveraged by ASA(ALT) prior to AIC testing to complete System of System decretification; begin COE 2.0 test planning, test case development. Network Initialization and to incorporate select go-to-war Data Product the Network Integration Evaluation (NIE) to leverage the operational en	with operators, test officers, ORSAs, data management, is, servers, computers and power supplies) to build an experience of the servers and associated equipment to support out required AIC testing. Unique infrastructure will be stem integration. Prepare and execute COE 1.0 AIC dication of data, and conduct COE 1.0 testing/evaluation. Continue to coordinate with PEO C3T Tactical Crypto is into AIC tests. Plan for AIC testing and data collections.			
FY 2014 Plans: Conduct COE 1.0 testing/evaluation and certification. Continue COE include information assurance software/compliance, and test tools. Co coordinate with PMs for systems undergoing COE 2.0 testing to deterr architecture; update infrastructure to achieve required commonality wit C3T Crypto Network Initialization for baseline Data Products and to include and conduct AIC testing and data collection in the Network Integration and NIE resources.	ntinue COE 2.0 test planning and test case development nine test architecture; finalize COE 2.0 test floor th COE 2.0 architecture. Continue to coordinate with P corporate the go-to-war Data Products into AIC tests. P	EO lan		
Title: Engineering Services			7.30	
Description: Provide network engineering support to establish and madeploying units at training centers around the world (NIE, JRTC, NTC, virtualization, advanced host based security system (HBSS) support, son the integration and risk reduction labs, and assists Army programs of the program of the integration and risk reduction labs, and assists Army programs of the program of the program of the integration and risk reduction labs, and assists Army programs of the program of the	aintain tactical architectures on the CTSF test floors and JMRC). System engineering support provides hardward system validation and integration support to numerous F	re	0	

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		D	ATE: A	pril 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJECT C29: Centrali (CTSF)	zed Ted	chnical Supp	oort Facility
B. Accomplishments/Planned Programs (\$ in Millions, Article Qua	antities in Each)	FY 20)12	FY 2013	FY 2014
Supported AIC Integration and Testing. Supported PMs for CS 11-12 between SWB2 and CS 11-12. Identified and incorporated software t Integrated and implemented HBSS technology. Assisted integration and non-POR radio communications devices to provide PMs and Mat CTSF network and systems engineering support to System of System sensor and platform level for validation of end-to-end communications Coalition; supported NIE. Provided software patch validation; networ fielded units upon request; and systems engineering and analysis sup PMs with a Virtualization Suite, assisted in virtualizing SW and assist Academy to provide Network Engineering Training.	ools to monitor performance and assist in issue resolut and test architectures to include Program of Record (Perial Developers testing in realistic environments. Prons Integration Directorate (SoSID) and 2/1 AD/WSMR for and interoperability, platform through Army Corps to Jok support for integration and test floors; network support to system of systems integration activities. Provi	ion. OR) vided or oint/ rt to ded			
FY 2013 Plans: Support AIC Integration and Testing. Support to PMs for CS 13-14/C testing between CS11-12 and CS13-14/COE V1.0. Identify and incor in issue resolution. Integrate and implement HBSS technology. Assi of Record (POR) and non-POR radio communications devices to provenvironments. Provide CTSF network and systems engineering suppand 2/1 AD/WSMR for sensor and platform level for validation of end-Army Corps to Joint/Coalition; support NIE. Provide software patch vertically network support to fielded units upon request; and systems engineering activities. Provide PMs with a Virtualization Suite, assist in virtualizing	porate software tools to monitor performance and assist integration and test architectures to include Program vide PMs and Material Developers testing in realistic port to System of Systems Integration Directorate (SoS to-end communications and interoperability, platform the validation; network support for integration and test flooring and analysis support to system of systems integration	ID) irough			
FY 2014 Plans: Support AIC Integration and Testing. Support to PMs for COE V1.0 i between CS11-12 and CS13-14/COE V1.0. Identify and incorporate s resolution. Assist integration and test architectures to include Progra devices to provide PMs and Material Developers testing in realistic en assist in virtualizing SW.	Integration. Support to backward compatibility testing software tools to monitor performance and assist in issuam of Record (POR) and non-POR radio communication	ns			
Title: Configuration Management	Ar	ticles:	.206 0	1.427 0	0.299
Description: Verify configuration, prior to test, of Program/Product Margaram Manager tests of approved Warfighter baselines; maintain commaintain configuration management of certification baselines for HQ/D for HQ/DA G3/5/7; disseminate approved software to deployed/deployed.	onfiguration integrity of certification test environment; DA CIO/G6 and the LandWarNet/Mission Command ba	seline			

PE 0604818A: Army Tactical Command & Control Hardware & Softwar... Army

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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 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJ C29: (Centralized Te	echnical Supp	oort Facilit
B. Accomplishments/Planned Programs (\$ in Millions, Article (Quantities in Each)		FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: Verified software configurations prior to test, controlled certification LandWarNet baselines for HQ/DA G3/5/7; sustained Configuration CTSF Baseline tracking for Army Interoperability Certification of Sysupport the AGILE Process.	Management Tracking Tool Version 3 (CMTSv3) to incom	porate			
FY 2013 Plans: Verify configuration of PM software drops for COE 1.0 prior to AIC baselines for HQ/DA CIO/G6 and LandWarNet/MC baselines for H units. Continue development/refinement of Sustain Configuration I	Q/DA G3/5/7; disseminate software to deployed/deployin	g			
FY 2014 Plans: Verify COE 1.0 software configuration prior to bi-annual test events test to ensure validity with certification event, and maintain baseline MC baselines for HQ/DA G3/5/7; disseminate software to deployed Tool Version 3 (CMTSv3) to incorporate CTSF Baseline tracking for Establish support to AGILE Process with access to CMTSv3 performance.	es as Title 10 manager for HQ/DA CIO/G6 and LandWarld/deploying units. Sustain Configuration Management Tra For Army Interoperability Certification of Systems Under tes	Net/ acking			
Title: Management Operations/Program Office	Ai	rticles:	1.254 0	1.561 0	0.92
Description: Provide management operations consisting of prograidentifying reimbursable tests and allocating/collecting appropriate	•				
FY 2012 Accomplishments: Programmed and executed funds/manpower/contracting requirements reimbursements for tests (e.g. CS 11-12 Tri-Annual, CS 13-14/COI systems integration. Planned and programmed field support for un	E V1.0, Joint, Coalition, 2/1 AD/WSMR [NIE], etc); and fur				
FY 2013 Plans: Program and execute funds/manpower/contracting requirements; t					
for tests (e.g. Tri-Annual CS 11-12, Tri-Annual SWB2, AIC testing, events. Coordinate, plan and program field support for unit training					

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PE 0604818A: Army Tactical Command & Control Hardware & Softwar... Page 17 of 39 R-1 Line #109 Army

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 0604818A: Army Tactical Command &	C29: Centralized Technical Support Facility
BA 5: System Development & Demonstration (SDD)	Control Hardware & Software	(CTSF)

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Program and execute funds/manpower/contracting requirements; track testing schedule, prepare/coordinate/track reimbursements			
for tests (COE V1.0 testing, CS 11-12 Tri-Annual testing. Joint, Coalition, 2/1 AD/WSMR [NIE]), and future systems test events.			
Provide field support coordination for unit training and exercises.			
Accomplishments/Planned Programs Subtotals	12.584	20.579	4.656

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

N/A

Remarks

D. Acquisition Strategy

Execute system of systems interoperability testing and certification through the use of Government and Systems Engineering and Technical Analysis (SETA) contract personnel experienced in product development and interoperability testing. Testing and certification occurs in a cyclical fashion, with an expectation of an annual Software Block/Capability Set test followed with cyclical test events (Tri-Annual/Bi-Annual Tests) to ensure integrity of software baselines to the Warfighter. Engineering Services provides strategic integration of software into a system of systems environment to support interoperability testing. Establish and maintain Configuration Management and version control of the Army's Interoperable Battle Command LandWarNet Baseline. Further expand distributed testing capability using local assets and leveraging other federated test facilities to create synergy and realize efficiencies, to include system of system test efforts at 2/1 AD/ WSMR (NIE).

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 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604818A: Army Tactical Command & Control Hardware & Software

PROJECT

EV 2044

EV 2044

C29: Centralized Technical Support Facility (CTSF)

DATE: April 2013

Product Developme	nt (\$ in Mi	illions)		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	Total Cost	Target Value of Contract
MITRE Corp	FFRDC	Engineering Services:Fort Hood, TX	13.144	1.884	Oct 2011	1.925	Oct 2012	1.150	Oct 2012	-		1.150	Continuing	Continuing	Continuing
CECOM R2 3G	C/CPFF	Enterprise Integration & Validation Infrastructure:Fort Hood, TX	0.000	0.736	Sep 2011	3.877	Sep 2012	0.033	Sep 2013	-		0.033	Continuing	Continuing	Continuing
In-House	Allot	Engineering Services:Fort Hood, TX	0.272	0.920	Oct 2011	1.007	Oct 2012	0.290	Oct 2013	-		0.290	Continuing	Continuing	Continuing
	`	Subtotal	13.416	3.540		6.809		1.473		0.000		1.473			

Support (\$ in Millions	s)			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	Total Cost	Target Value of Contract
CECOM Matrix	MIPR	Program and Budget Analysis Support:Fort Hood, TX/Aberdeen Proving Grounds, MD	2.862	0.311	Oct 2011	0.311	Oct 2012	0.049	Oct 2013	-		0.049	Continuing	Continuing	Continuing
In-House Support	Allot	Management Operations, Logistics Support:Fort Hood, TX	4.926	1.343	Oct 2011	1.397	Oct 2012	0.800	Oct 2013	-		0.800	Continuing	Continuing	Continuing
Supplies	C/UCA	Management Operations, Logistics Support:Fort Hood, TX	0.000	0.237	Oct 2011	0.895	Oct 2012	0.080	Oct 2013	-		0.080	Continuing	Continuing	Continuing
		Subtotal	7.788	1.891		2.603		0.929		0.000		0.929			

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

R-1 ITEM NOMENCLATURE

DATE: April 2013

PROJECT

APPROPRIATION/BUDGET ACTIVITY

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

PE 0604818A: Army Tactical Command & Control Hardware & Software

C29: Centralized Technical Support Facility

(CTSF)

Test and Evaluation	(\$ in Milli	ons)		FY 2	2012	FY 2	2013		2014 ise	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	Total Cost	Target Value of Contract
CECOM R2 3G	C/CPFF	Test, Configuration Management:Fort Hood, TX	0.000	1.471	Sep 2011	4.358	Sep 2012	0.177	Sep 2013	-		0.177	Continuing	Continuing	Continuing
CECOM S3	C/CPFF	Facilities, Maintenance, Security:Fort Hood, TX	0.000	1.965	Sep 2011	3.474	Sep 2012	-		-		-	0.000	5.439	0.000
Instrumentation	C/UCA	Test Equipment Infrastructure:Fort Hood, TX	0.000	0.801	Oct 2011	0.782	Oct 2012	0.004	Oct 2013	-		0.004	Continuing	Continuing	Continuing
EPG Matrix	MIPR	Test:Fort Hood, TX	0.907	1.510	Oct 2011	1.258	Oct 2012	1.207	Oct 2013	-		1.207	Continuing	Continuing	Continuing
ISSA	MIPR	Test:Fort Hood, TX	2.890	0.838	Oct 2011	0.716	Oct 2012	-		-		-	0.000	4.444	0.000
In-House Support	Allot	Test:Fort Hood,TX	0.250	0.568	Oct 2011	0.579	Oct 2012	0.866	Oct 2013			0.866	Continuing	Continuing	Continuing
		Subtotal	4.047	7.153		11.167		2.254		0.000		2.254			

Remarks

CECOM R2 contract will provide Test and Configuration Management functions. CECOM S3 contract will provide Site Support/Facilities, Maintenance, and Security functions. CECOM S3 and Ft. Hood ISSA not required in FY14(APG). Data based on comparative figures from POM Briefing and FY12 R Forms. Briefed to DA/G8 and ASA(ALT) with POM Brief on 25 Jan 2013.

	All Prior Years	FY 2	2012	FY 2	013	FY 2 Ba	-	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	25.251	12.584		20.579		4.656		0.000	4.656			

Remarks

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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 0604818A: Army Tactical Command &	C29: Centi	ralized Technical Support Facility
BA 5: System Development & Demonstration (SDD)	Control Hardware & Software	(CTSF)	
	•		

		FY 2012			012 FY 2013				FY 2014			FY 2015		FY 2016				FY 2017			FY 2018				
	1	2	3	4	1	2 3	3 4	4 1	2	3	4	1	2	3	4	1	2 3	4	1	2	3	4	1	2	3
COE V1.0 (CS13-14)			,																						
FBCB2 JCR 1.3																									
JBCP 1.0																									
WIN-T Inc 3																									

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 0604818A: Army Tactical Command &	C29: Centi	ralized Technical Support Facility
BA 5: System Development & Demonstration (SDD)	Control Hardware & Software	(CTSF)	

Schedule Details

	St	art	End			
Events	Quarter	Year	Quarter	Year		
COE V1.0 (CS13-14)	3	2013	4	2018		
FBCB2 JCR 1.3	4	2012	3	2013		
JBCP 1.0	4	2012	4	2013		
WIN-T Inc 3	3	2015	1	2016		

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2014 A	Army						DATE: April 2013			
APPROPRIATION/BUDGET ACT	IVITY				R-1 ITEM	NOMENCL	ATURE		PROJECT			
2040: Research, Development, Te	est & Evalua	ation, Army			PE 060481	18A: <i>Army 1</i>	actical Con	nmand &	C34: Army	Tac C2 Sys	s Eng	
BA 5: System Development & Der	monstration	(SDD)			Control Ha	rdware & S	oftware				-	
COST (\$ in Millions)	All Prior			FY 2014	FY 2014	FY 2014					Cost To	Total
COST (\$ III WIIIIONS)	Years	FY 2012	FY 2013 [#]	Base	OCO##	Total	FY 2015	FY 2016	FY 2017	FY 2018	Complete	Cost
C34: Army Tac C2 Sys Eng	-	15.169	48.505	11.036	-	11.036	20.588	17.914	16.693	17.000	Continuing	Continuing

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

Note

Not applicable for this item.

Quantity of RDT&E Articles

A. Mission Description and Budget Item Justification

Project C34, Army Tactical Command and Control Systems Engineering: This project funds the PEO Command, Control, Communications-Tactical (PEO C3T) Technical Management Division (TMD) systems engineering and integration, experimentation, acquisition management, testing, fielding and sustainment support to ensure interoperability and affordability among the PEO C3T suite for Army Capability Sets (CS). The TMD focuses on System-of-Systems (SoS) Engineering and Integration for the C3T network with increased emphasis on immediate Warfighter needs as well as leveraging emerging technologies, through the G3 LandWarNet Capability Set Development and Integration. Fiscal Year 2014 will focus on the continued development, implementation and integration of the Command, Control, Communications, Computers, Combat Systems, Intelligence, Surveillance, and Reconnaissance (C5ISR) network architectures. This will include development of a technology enhancement roadmap for SoS capability evolution across the PEO C3T portfolio; network integrator support and design products for CS validation at Network Integration Evaluations (NIE); integration of tactical Networked capabilities for all CS, initiative fieldings, and integration events; integration of tactical information assurance solutions and security measures for consistent cyber protection; leading integration of Army strategic and tactical NetOps capability; and execution of SoS developmental testing across the PEO portfolio in support of capability set fieldings.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Continue Army Tactical Battle Command and Network Synchronization and Integration Support	1.277	1.893	0.169
Articles:	0	0	
Description:			
FY 2012 Accomplishments: Provide system-of-systems engineering and technical support to integrate the tactical network across all PEOs in the Army. Design and integrate Network Integration Evaluation and network integration rehearsal activities to include technical recommendations in Network Convergence, Handheld capabilities, Enhanced Mission Command, Command Posts, & network operations. Provide on-site support to troubleshoot the tactical network and work across the Command, Control,			

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

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJE C34: A	rmy Tac C2	Sys Eng	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quan	itities in Each)		FY 2012	FY 2013	FY 2014
Communications, Computers, Combat Systems, Intelligence, Surveillan courses of action in resolving communication and architectural issues.		elop			
FY 2013 Plans: Continue the support of current force and the development of future force programs are synchronized and redundancies and overlapping capability with Common Operating Environment.					
FY 2014 Plans: Continue the support of current force and the development of future force Assistant Secretary of the Army (Acquisition, Logistics & Technology) (A and overlapping capabilities are reduced across the network and in synthesis.)	ASA(ALT)) programs are synchronized and redundan	cies			
Title: Continue Developmental Testing & Integration Testing between P System-of-Systems (SoS) and Interoperability	, , ,	recute	1.651 0	2.215 0	1.652
Description:					
FY 2012 Accomplishments: Perform network integration efforts to ensure transport and mission complishments that command post. Develop strategies and system-of-systems frameword dismounted soldier and to extend mission command applications to onintegration of future Joint/Coalition capability requirements into the Compeo C3T system-of-systems technology insertion evaluation and risk mevents.	orks to extend the current platform capabilities to the the-move platforms. Develop execution plan for the amon Operating Environment framework. Execute on	going			
FY 2013 Plans: Continue to conduct integration testing and systems engineering for C3 products, technical insertions, and systems under evaluation to ensure collaborative developmental approach and training venue for new hire expressions.	integration of capabilities across the network. Provid				
FY 2014 Plans: Continue to conduct integration testing and systems engineering for C3 products, technical insertions, and systems under evaluation to ensure collaborative developmental approach and training venue for new hire expressions.	integration of capabilities across the network. Provid				
Title: Continue Tactical Network Engineering			1.240	1.497	0.947

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJE C34: A	ECT rmy Tac C2	Sys Eng	
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2012	FY 2013	FY 2014
Description: .	Ar	ticles:	0	0	
FY 2012 Accomplishments: Design and integrate the Network for the capstone integrated tests for event planning and on-site support to troubleshoot Network. Les Logistics, NetOps, Test, and system-of-systems engineering Integrated tests for event planning and on-site support to troubleshoot Network. Les Logistics, NetOps, Test, and system-of-systems engineering Integrated tests for event planning and on-site support to troubleshoot Network. Les Logistics, NetOps, Test, and system-of-systems engineering Integrated tests for event planning and on-site support to troubleshoot Network. Les Logistics are supported to troubleshoot Network and State Les Logistics and State Les Les Logistics and State Les Les Les Les Les Les Les Les Les Le	ead the Initialization, Network Services, Mission Comman grated Product Teams (IPTs). Validate ability to maneuver non Operating Environment(s) framework and implementat	d, battle			
FY 2013 Plans: Develop effective engineering strategies to integrate tactical applic to perform network planning and integration activities across all cretechnologies.		е			
FY 2014 Plans: Develop effective engineering strategies to integrate tactical applicate to perform network planning and integration activities across all createchnologies.		e			
Title: Conduct and Support System Interoperability Engineering ar Products		ticles:	2.786 0	3.044 0	2.12
Description:					
FY 2012 Accomplishments: Support mission thread development to achieve additional capabiliarchitecture and infrastructure (hardware, services, applications) a deployed at multiple echelons, in multiple Computing Environment NIPR, SIPR, JWICS, NSANet, and Coalition). Develop internal PE assist in identifying potential network issues early in the systems of	ligned with the Common Operating Environment that can les, based on mission, across multiple security enclaves (Int	ternet,			
process for system-of-systems architectures for CS 13/14 and bey	rond.				

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: A	pril 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJECT C34: Army	Tac C2 S	Sys Eng		
B. Accomplishments/Planned Programs (\$ in Millions, Article Q	Quantities in Each)	FY	2012	FY 2013	FY 2014	
Within the PEO C3T portfolio, continue to assess Emerging Techno developmental testing at integration points, develop architectural da capabilities to the warfighter.		rk				
FY 2014 Plans: Within the PEO C3T portfolio, continue to assess Emerging Techno developmental testing at integration points, develop architectural da capabilities to the warfighter.		rk				
Title: Continue Development and Implementation of Tactical Inform			0.599	0.673	0.32	
Description:	A	rticles:	0	0		
FY 2012 Accomplishments: Continue to support the Security Data and Log Management (SDLM Assurance, and Compliance (OIA&C) by providing requirements, ar response, log management, security event rollup, and archiving. Ai Management requirements. Coordinate with PM offices for the implication, and test new policies and phases of Host Based Security Systems.	rchitecture, and technical solutions for Army incident id in the documentation of future Army Security and Data lementation of PK Enablement. Continue to implement,	ı Log				
FY 2013 Plans: Continue to support CIO/G6 and CYBERCOM guidance for execution at the tactical level. Continue to plan and design security measures capabilities.	on of Information Assurance (IA) policies and procedure					
FY 2014 Plans: Continue to support CIO/G6 and CYBERCOM guidance for execution the tactical level. Continue to plan and design security measures as capabilities.						
Title: Continue System of Systems Development	A	rticles:	4.960 0	5.613 0	3.786	
Description:						

PE 0604818A: Army Tactical Command & Control Hardware & Softwar... Army

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJE C34: A	rmy Tac C2	Sys Eng	
B. Accomplishments/Planned Programs (\$ in Millions, Article Qu	antities in Each)		FY 2012	FY 2013	FY 2014
Assure the PEO C3T system-of-systems technical capabilities deliver Process and in support of current operations (OEF-focused) are defined the Army Enterprise. Provide Army system-of-systems engineering of warfighter. Assess potential command, control and communications is non-POR opportunities, and add a new level of operational agility in sengineering and Integration; Current Ops system-of-systems Engineering; Rapid Technology Insertion; PEO C3T Strategic Initiative	ned, engineered, and integrated within the PEO and act in major HQDA capability initiatives that impact the tacti solutions to break down functional stove-pipes, accommodupport of the warfighter. Deliberate system-of-systems ering and Integration; Enterprise system-of-systems	cal nodate			
FY 2013 Plans: Continue to effectively manage overall System-of-Systems Engineering portfolio of technology and capability enhancement programs.	ng, Enterprise, and Integration efforts for the PEO C3T				
FY 2014 Plans: Continue to effectively manage overall System-of-Systems Engineering portfolio of technology and capability enhancement programs.	ng, Enterprise, and Integration efforts for the PEO C3T				
Title: System of Systems (SoS) Engineering and Integration Evolution		ticles:	2.656	2.911	2.034
Description:	,				
FY 2012 Accomplishments: Develop streamlined processes to support ASA(ALT) System of System Engineering (VE), and Lean Six Sigma across all PEO C3T capabilities.		ht.			
FY 2013 Plans: Continue to develop streamlined processes to support ASA(ALT) System of implement VE and Lean Six Sigma initiatives across all PEO C37 continue to implement cross PEO System of Systems Engineering and Engineering and Testing.	Γ capabilities to include the Joint Coalition partners. Als				
FY 2014 Plans: Continue to develop streamlined processes to support ASA(ALT) Sos across all PEO C3T capabilities to include the Joint Coalition partners Engineering and Integration processes to ensure successful development	s. Also continue to implement cross PEO System of Sy	stems			
Title: Supports Network Intialization and enabling digital communication	• • • • • • • • • • • • • • • • • • • •	ticles:	0.000	2.460 0	0.000

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PE 0604818A: Army Tactical Command & Control Hardware & Softwar... Page 27 of 39 R-1 Line #109 Army

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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 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJE C34: At	CT rmy Tac C2	Sys Eng	
B. Accomplishments/Planned Programs (\$ in Millions, Article Qua	antities in Each)		FY 2012	FY 2013	FY 2014
Description: .					
FY 2013 Plans: In support of the dynamic initialization development, providing warfight enabling digital communication. The value added of this capability will operational flexibility of modifying his/her organization, while maintaining the dynamic changes dictated by Mission, Enemy, Terrain, Troops & Tobenefit the taxpayer by significantly reducing the number of Field Service capability, as well as, reducing the data product production staff needs specific unit. This capability will shift the Project Directorate's focus frostandardization.	I provide the combatant commander with the long-awang constant command and control, in order to adapt to Fime Available (METT_T). Additionally, this capability vice Representatives needed to support a static initialized to produce a static initialization product for every	ited, will ation			
Title: Enterprise Architecture			0.000	28.199	0.00
Description: Funding is provided for the following effort: To provide at Agile Process and the Joint Capabilities Integration Development Syst provide the basis for more extensive architecture required to conduct a Integration Evaluation (NIE) process.	tem (JCIDS). They answer Senior leader questions ar	ıd			
FY 2013 Plans: Support Army Senior Leader Decision Making: Provide Executive Views of baseline architecture and alternative cours essential detail for Senior Army Leaders. Centralized Repository of Enterprise Architecture: Maintain a centralized authoritative repository of Enterprise Architecture Army architecture products. Provide a standard suite of architecture darchitecture, and is federated with the architecture repositories of DOE Operational Support: Develop Army, Joint, and Coalition mission threads for the functional related intelligence, Personnel, etc). The resulting products will be used to decent Network design and determine if functional mission area capabilities and directly correlated to the Software Architectures employed to develop of Organizationally Based Architecture:	re Data that supports development and reuse of integrate development tools, workspace for the development of D, the Air Force, Navy, and USMC. mission areas (Mission Command, Network, Fires, Log velop and modify the Force Structure, Generating Force the operational demands. The products will also	ated istics, ce and be			

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PE 0604818A: Army Tactical Command & Control Hardware & Softwar... Page 28 of 39 R-1 Line #109 Army

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 0604818A: Army Tactical Command &	C34: Army	Tac C2 Sys Eng
BA 5: System Development & Demonstration (SDD)	Control Hardware & Software		

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Develop organization based architectures that set the foundation for representing the Army plan and will enable analysis of			
adjustments (quantity and type) of systems or other architecture elements. This task includes operational, systems and technical			
architecture verification, validation, certification, and approval.			
Intelligence Surveillance and Radar: (ISR)			
Maintain the Intelligence Surveillance and Radar (ISR) baseline architecture to ensure access to authoritative data source in			
support of the Operating Force and capability set development.			
Serves as the software engineering agent for the Army COE. Establish and maintain a software support repository for			
configuration control and re-distribution of the Tactical COE and COE-based Applications. Establish a federation of software SILs			
across the AMC SW Support Centers to leverage the capabilities of all the centers in support of COE prototyping, assessment			
and deployment. Chair the design forum across the affected PEOs and Software Centers needed to establish the architectural			
design rules which enable proper convergence on a COE across the Army Enterprise. Evaluate existing software components			
from both DOD and Industry for use in a Tactical COE for all computing environments. Provide help desk and integration support			
to COE application developers across PEOs, reducing overall integration time and cost to implement. Conduct rapid prototyping			
and integration of capabilities across legacy and emerging systems to demonstrate military utility in the BCT Integration Events			
and other appropriate venues. Establish design leadership within the AMC Software Centers for the COE and Army Networking			
by shifting this work from the contractor base into the Army, organic staff and organizations. Define and govern COE standards			
and policies to ensure information sharing between tactical systems across the Army Network.			
Accomplishments/Planned Programs Subtotals	15.169	48.505	11.036

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

N/A

Remarks

Not applicable for this item.

D. Acquisition Strategy

This project provides the technical and programmatic disciplines required for systems engineering and integration, experimentation, acquisition management, testing, interoperability, support to fielding and sustainment to ensure an interoperable and affordable Army Tactical Command and Control Systems (ATCCS). It will focus on System-of-Systems (SoS) Systems Engineering and Integration for the tactical network with increased emphasis on immediate Warfighter needs as well as leveraging emerging technologies, through the G3 LandWarNet Capability Set Development and Integration. The Technical Management Division (TMD) will ensure that the Program Executive Office Command, Control, Communications-Tactical (PEO C3T) capability portfolio is effectively SoS engineered and integrated to meet the tactical Warfighter's evolving mission needs.

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD) R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	
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 M	lay 2010.

PE 0604818A: Army Tactical Command & Control Hardware & Softwar... Army

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

R-1 ITEM NOMENCLATURE

Control Hardware & Software

DATE: April 2013 **PROJECT**

APPROPRIATION/BUDGET ACTIVITY

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

PE 0604818A: Army Tactical Command &

C34: Army Tac C2 Sys Eng

Product Developmen	t (\$ in M	illions)		FY 2	012	FY 2	013	FY 2 Ba		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
Emerging Technologies	SS/FP	Northrop Grumman:Fort Monmouth, NJ/Fort Hood, TX	20.038	0.604		1.398		-		-		-	Continuing	Continuing	Continuing
System Of System Engineering and Integration, Current and Strategic Initiatives	C/T&M	CSC Aberdeen Proving Ground /Fort Hood, TX:APG	48.613	2.006		4.731		-		-		-	Continuing	Continuing	Continuing
System of System Engineering & Integration, Current & Strategic Initiative, Architecture Integration	C/T&M	TBD:tbd	0.000	-		-		3.343		-		3.343	Continuing	Continuing	Continuing
Architecture Integration	C/T&M	CSC:various	4.792	2.964		4.629		-		-		-	Continuing	Continuing	Continuing
Systems Engineering Support	SS/FP	LOCKHEED MARTIN:Eatontown, NJ	7.627	0.172		0.473		-		-		-	Continuing	Continuing	Continuing
Systems Engineering Support	C/CPFF	Northrop Grumman:Arlington, VA	0.000	3.000		-		-		-		-	0.000	3.000	0.000
Systems Engineering Support	C/CPFF	TBD:tbd	0.000	-		-		1.750		-		1.750	Continuing	Continuing	Continuing
System of System Architectures, Engineering, and Integration	SS/FP	MITRE:Aberdeen Proving Ground, MD/ Eatontown, NJ	70.764	3.894		6.615		3.327		-		3.327	Continuing	Continuing	Continuing
Tactical Network Initialization	SS/FP	TBD:tbd	0.000	-		2.460		-		-		-	Continuing	Continuing	Continuing
		Subtotal	151.834	12.640		20.306		8.420		0.000		8.420			

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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 BA 5: System Development & Demonstration (SDD)

PE 0604818A: Army Tactical Command & Control Hardware & Software

11.036

C34: Army Tac C2 Sys Eng

11.036

Support (\$ in Million	s)			FY 2	2012	FY 2	2013	FY 2 Ba	2014 ise		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
IN-HOUSE SUPPORT	Various	PEO C3T:APG, MD	23.937	2.060		4.661		1.261		-		1.261	Continuing	Continuing	Continuing
MATRIX	Various	Various:Aberdeen Proving Ground, MD/ Fort Hood, TX	9.955	0.106		0.175		1.006		-		1.006	Continuing	Continuing	Continuing
OTHER GOVERNMENT SUPPORT	Various	Various:Various	6.658	0.363		0.600		0.349		-		0.349	Continuing	Continuing	Continuing
BES Architecture	SS/ FFPLOE	NIE:FTB/WSMR	0.000	-		22.763		-		-		-	0.000	22.763	0.000
		Subtotal	40.550	2.529		28.199		2.616		0.000		2.616			
			All Prior Years	FY 2	2012	FY 2	2013	FY 2 Ba	2014 Ise	1	2014 CO	FY 2014 Total	Cost To	Total Cost	Target Value of Contract

48.505

Remarks

PE 0604818A: Army Tactical Command & Control Hardware & Softwar... Army

192.384

15.169

Project Cost Totals

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0.000

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

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

R-1 ITEM NOMENCLATURE

PE 0604818A: Army Tactical Command &

Control Hardware & Software

PROJECT

C34: Army Tac C2 Sys Eng

		FY 2012			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
Network Load Exercise 13.1		·														,								,				
Communication Exercise 13.1																												
Pilot 13.1																												
Network Load Exercise 13.2																												
Communication Exercise 13.2																												
Network Pilot 13.2																												
Capability Set 13 Fielding																												

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
BA 5: System Development & Demonstration (SDD)
PE 0604818A: Army Tactical Command & C34: Army Tac C2 Sys Eng
Control Hardware & Software

Schedule Details

	Si	tart	E	nd
Events	Quarter	Year	Quarter	Year
Network Load Exercise 13.1	1	2013	1	2013
Communication Exercise 13.1	1	2013	1	2013
Pilot 13.1	1	2013	1	2013
Network Load Exercise 13.2	2	2013	2	2013
Communication Exercise 13.2	3	2013	3	2013
Network Pilot 13.2	3	2013	3	2013
Capability Set 13 Fielding	2	2013	2	2014

Exhibit R-2A, RDT&E Project Ju	ıstification	: PB 2014 <i>P</i>	Army							DATE: April 2013					
APPROPRIATION/BUDGET ACT 2040: Research, Development, To BA 5: System Development & De	est & Evalua				PE 060481	NOMENCL 18A: Army 7 ardware & S	actical Com	T NETWOR	NETWORK NODE (JNN)						
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			
JN1: JOINT NETWORK NODE (JNN) TESTING	-	12.760	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing			
Quantity of RDT&E Articles															

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

A. Mission Description and Budget Item Justification

WIN-T Inc 1 is key to the Army's Network Modernization program. As the emerging major component of the Army Bridge to Future Networks, Warfighter Information Network - Tactical (WIN-T) Increment 1, formerly the Joint Network Node (JNN) Network is intended to replace legacy Mobile Subscriber Equipment (MSE) while moving the Army to a unified Everything Over Internet Protocol (EOIP) Communications System. Increment 1: Networking at-the-Halt is capable of passing unclassified and classified traffic levels, throughout its entire structure, from Home Station Operations center to the furthest forward Battalion Elements. Designed to meet modularity and rapid deployment mandate, the network is also intended to support Joint Communications Requirements and internet applications from Coalition partners and from approved Federal Agencies such as the Federal Emergency Management Agency and Department of Homeland Security.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Operational Testing Event	12.760	0.000	0.000
Articles:	0		
Description: Funding is provided for the following effort			
FY 2012 Accomplishments: Operational Testing Event			
Accomplishments/Planned Programs Subtotals	12.760	0.000	0.000

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

N/A

Remarks

D. Acquisition Strategy

Joint Network Node (JNN) Network has previously been acquired in substantial quantities as urgent Army directive procurement. The JNN program attained Milestone C on 14 May 2007. The product manager was given verbal approval to proceed, in additional to instruction to await an Acquisition Decision Memorandum (ADM) that was to follow finalization of the Warfighter Information Network - Tactical (WIN-T) Nunn-McCurdy hearings. The ADM was issued 5 June 2007 implementing

^{##} 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 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	TESTING	T NETWORK NODE (JNN)
the expected merger of JNN and WIN-T, laying the foundation for the restruction combined program. The WIN-T ACAT 1D program now consist of four separation will be used to test the output of the production.			
E. Performance Metrics			
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	rication Book, dated May 2010.

PE 0604818A: Army Tactical Command & Control Hardware & Softwar... Army

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

R-1 ITEM NOMENCLATURE

PROJECT

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

APPROPRIATION/BUDGET ACTIVITY

PE 0604818A: Army Tactical Command & Control Hardware & Software

JN1: JOINT NETWORK NODE (JNN)

DATE: April 2013

TESTING

Test and Evaluation	(\$ in Milli	ons)		FY 2	012	FY 2013		FY 20 Bas		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
ATEC Testing requirment	Various	TBD:TBD	0.000	12.760		-		-		-		-	0.000	12.760	0.000
		Subtotal	0.000	12.760		0.000		0.000		0.000		0.000	0.000	12.760	0.000
				`											

	All Prior Years	FY 20	012	FY 2	013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	12.760		0.000		0.000	0.000	0.000	0.000	12.760	0.000

Remarks

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

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

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

R-1 ITEM NOMENCLATURE
PE 0604818A: Army Tactical Command &

Control Hardware & Software

PROJECT

JN1: JOINT NETWORK NODE (JNN)

TESTING

		FY	2012	2		FY	201	3		FY	2014	Ļ		FY 2	2015			FY 2	2016	;		FY 2	2017	•		FY 2	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
Operational Test																												

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 0604818A: Army Tactical Command & BA 5: System Development & Demonstration (SDD) Control Hardware & Software

JN1: JOINT NETWORK NODE (JNN) **TESTING**

Schedule Details

	St	art	E	nd
Events	Quarter	Year	Quarter	Year
Operational Test	3	2012	3	2012

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