

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	57.264	93.846	77.223	-	77.223	47.468	40.756	39.499	40.385	Continuing	Continuing
323: <i>COMMON HARDWARE SYSTEMS</i>	15.945	7.911	8.012	-	8.012	17.766	6.607	4.285	4.358	Continuing	Continuing
334: <i>COMMON SOFTWARE</i>	12.283	44.701	0.127	-	0.127	-	0.183	0.153	0.261	Continuing	Continuing
C29: <i>CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)</i>	17.150	12.885	20.579	-	20.579	11.678	15.561	15.808	16.073	Continuing	Continuing
C34: <i>ARMY TAC C2 SYS ENG</i>	11.886	15.179	48.505	-	48.505	18.024	18.405	19.253	19.693	Continuing	Continuing
JN1: <i>JOINT NETWORK NODE (JNN) TESTING</i>	-	13.170	-	-	-	-	-	-	-	Continuing	Continuing

Note

In FY2013, an adjustment was required to remove System of System Integration's(formerly PEO Intergration) funding to fulfill the following missions and requirements: Network Integration Exercise (NIE) and Network Integration Rehearsal (NIR); System of Systems Engineering Common Operating Environment (SOSE COE)line ads they moved to another PE.

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 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 "Systems 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 Headquarter, Department Of The Army (HQDA) initiatives and also oversees the the technical analysis supporting the Army Common Operating Environment (COE) Assessment and implementation; an integrated test strategy, certification process, and integration efforts across the C3T portfolio of systems; Operational implementation of enterprise framework, tactical

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army	DATE: February 2012
---	----------------------------

APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>
---	---

Host Based Security System (HBSS) and Advance Development (AD) tests/implementations/integration; development of capability set SoS architectures; server consolidation; integration of transport waveforms and development of Command Post and integrated Network Architectures. 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 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 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. 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

B. Program Change Summary (\$ in Millions)	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013 Base</u>	<u>FY 2013 OCO</u>	<u>FY 2013 Total</u>
Previous President's Budget	60.970	123.935	36.095	-	36.095
Current President's Budget	57.264	93.846	77.223	-	77.223
Total Adjustments	-3.706	-30.089	41.128	-	41.128
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	95.300	-	95.300
• Other Adjustments 1	-3.706	-30.089	-54.172	-	-54.172

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software				PROJECT 323: COMMON HARDWARE SYSTEMS			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
323: COMMON HARDWARE SYSTEMS	15.945	7.911	8.012	-	8.012	17.766	6.607	4.285	4.358	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

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 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 2013 funds allow CHS to continue to manage the acquisition and delivery of CHS equipment, technology insertion and common standardized testing in support of customer requirements.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2011	FY 2012	FY 2013
Title: Acquisition management/delivery of CHS equipment in support of customer requirements Articles: Description: Funding is provided for the following effort FY 2011 Accomplishments: Continue management of the acquisition/delivery of CHS equipment in support of customer requirements FY 2012 Plans: 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	6.595 0	7.111 0	7.212
Title: CHS equipment testing efforts Articles: Description: Funding is provided for the following effort FY 2011 Accomplishments: Will continue to support CHS customer testing efforts FY 2012 Plans:	0.200 0	0.300 0	0.300

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>	PROJECT 323: <i>COMMON HARDWARE SYSTEMS</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
Future CHS customer testing efforts			
FY 2013 Plans: Will continue to support CHS customer testing efforts			
Title: CHS technology insertion		-	0.500
Articles:			0
Description: Funding is provided for the following effort			
FY 2012 Plans: Continue CHS technology insertion			
FY 2013 Plans: Continue CHS technology insertion			
Title: Non Recurring Engineering (NRE) Costs for New CHS-4 Products		9.150	-
Articles:		0	-
Description: Funding is provided for the following effort			
FY 2011 Accomplishments: Continue with the design, development and testing (NRE Costs) for New CHS-4 Products			
Accomplishments/Planned Programs Subtotals		15.945	7.911
C. Other Program Funding Summary (\$ in Millions) N/A			
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. In August 2011, CHS awarded, on a best value basis, the follow-on CHS-4 contract via full and open competition. The period of performance will be for 5 years.			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>	PROJECT 323: <i>COMMON HARDWARE SYSTEMS</i>

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 2013 Army										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software				PROJECT 323: COMMON HARDWARE SYSTEMS					
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Support Costs	C/FP	Various:Various	68.226	3.657		3.730		-		3.730	Continuing	Continuing	Continuing
Product Development	C/FP	Various:Various	77.908	3.454		3.482		-		3.482	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		0.500		-		0.500	Continuing	Continuing	Continuing
Subtotal			192.061	7.611		7.712		-		7.712			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
CHS Test Activities	Various	Other Government Activities:various	2.354	0.300		0.300		-		0.300	Continuing	Continuing	Continuing
Subtotal			2.354	0.300		0.300		-		0.300			
			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			194.415	7.911		8.012		-		8.012			
Remarks													

UNCLASSIFIED

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

DATE: February 2012

APPROPRIATION/BUDGET ACTIVITY

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

R-1 ITEM NOMENCLATURE

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

PROJECT

323: COMMON HARDWARE SYSTEMS

[illegible]

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>	PROJECT 323: <i>COMMON HARDWARE SYSTEMS</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
CHS-4 Contract Award	4	2011	4	2011
CHS-4 V1/V1+ Hardware Deliveries	1	2012	1	2017
CHS-4 V2/V3 Hardware Deliveries	1	2012	1	2017
CHS-5 Contract Award	2	2016	2	2016

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software				PROJECT 334: COMMON SOFTWARE			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
334: COMMON SOFTWARE	12.283	44.701	0.127	-	0.127	-	0.183	0.153	0.261	Continuing	Continuing
Quantity of RDT&E Articles											
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 Battle Command Systems (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 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 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 2011	FY 2012	FY 2013	
Title: ABCS common software enterprise infrastructure development in support of Army and Joint Services requirements. Articles: Description: Funding is provided for the following effort FY 2011 Accomplishments: Continuing the development, acquisition management and delivery of the ABCS common software enterprise infrastructure in support of Army and Joint Services requirements. FY 2012 Plans: Will continue the development, acquisition management and delivery of the ABCS common software enterprise infrastructure in support of Army and Joint Services requirements.								8.790	8.802	-	
								0	0		
Title: Joint and Coalition interoperability efforts. Articles:								1.313	1.353	0.127	
								0	0		

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>	PROJECT 334: <i>COMMON SOFTWARE</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
Description: Funding is provided for the following effort FY 2011 Accomplishments: Serving as the executive agent and providing software for interoperability of Joint and Coalition efforts. FY 2012 Plans: Will continue to serve as the executive agent and provide software for interoperability of Joint and Coalition efforts. FY 2013 Plans: Will continue to serve as the executive agent and provide software for interoperability of Joint and Coalition efforts.			
Title: Battle Command (BC) systems common architecture products. Description: Funding is provided for the following effort FY 2011 Accomplishments: Continuing to develop the System of System (SoS) architecture for BC systems. FY 2012 Plans: Will continue to develop the SoS architecture for BC systems.		2.180 0	2.245 0
Title: Integration of previously developed mission command capabilities and common software solutions into the Army Common Operating Environment (COE). Description: Funding is provided for the following effort FY 2012 Plans: Technical evaluation of previously developed software capabilities for integration with 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.		-	32.301 0
Accomplishments/Planned Programs Subtotals		12.283	44.701
C. Other Program Funding Summary (\$ in Millions)			
N/A			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>	PROJECT 334: <i>COMMON SOFTWARE</i>
<p><u>D. Acquisition Strategy</u></p> <p>In accordance with the United States Army Training and Doctrine Command (TRADOC) requirements document approved in 2008, entitled Mission Command Essential Capability, software capability will be developed in 2-year increments as capability sets designed to Collaborate, Collapse and Converge Mission Command products in line with Common Operating Environment (COE) architecture baselines. The product development funded under this R-Form is an integral part of the ABCS, a system of systems 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 opportunity for improved interoperability among the systems, to capture the benefits of competition and to ensure the rapid integration of new capability into warfighter systems. This strategy is designed to reduce the physical footprint, logistics support requirements and increase operational efficiency.</p> <p>The overall acquisition goal of the CS program is the improvement of life cycle costs by providing common products that are used horizontally across programs avoiding duplication of efforts by Army and Joint programs.</p> <p><u>E. Performance Metrics</u></p> <p>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.</p>		

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT					
2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				PE 0604818A: Army Tactical Command & Control Hardware & Software				334: COMMON SOFTWARE					
Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Office Management	Various	PM Battle Command:Various	8.414	0.747		0.127		-		0.127	Continuing	Continuing	0.000
Subtotal			8.414	0.747		0.127		-		0.127			0.000
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
CS Product Engineering/ Software Development	Various	Future Skies:Wall Township, NJ	115.135	7.721		-		-		-	Continuing	Continuing	0.000
ABCS/Army System Engineering & Integration	Various	CACI:Various	4.731	0.816		-		-		-	Continuing	Continuing	0.000
Battle Command System of Systems Architecture Development	Various	Various Contractors / Various Locations:Various	13.228	1.158		-		-		-	Continuing	Continuing	0.000
Evaluation, modification, validation and integration of developed SW	Various	Various:Various	-	32.301		-		-		-	Continuing	Continuing	0.000
Subtotal			133.094	41.996		-		-		-			0.000
Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Support	Various	PM Battle Command:Various	6.939	0.567		-		-		-	Continuing	Continuing	0.000
Technical Support	Various	Various Contractors / Various Locations:Various	1.948	0.191		-		-		-	Continuing	Continuing	0.000
Subtotal			8.887	0.758		-		-		-			0.000

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army											DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>				PROJECT 334: <i>COMMON SOFTWARE</i>					

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test	Various	Various Contractors/ Various locations:Various	5.945	1.200		-		-		-	Continuing	Continuing	0.000
Subtotal			5.945	1.200		-		-		-			0.000

	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	156.340	44.701		0.127		-		0.127			0.000

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army																DATE: February 2012																			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)								R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software								PROJECT 334: COMMON SOFTWARE																			
								FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
								1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
Assess previously developed SW, modification, validation & integration																																			
Provide software for interoperability of Joint & Coalition efforts.																																			
Continue software support for interoperability of Joint & Coalition efforts.																																			

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>	PROJECT 334: <i>COMMON SOFTWARE</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Assess previously developed SW, modification, validation & integration	1	2012	4	2012
Provide software for interoperability of Joint & Coalition efforts.	1	2013	4	2013
Continue software support for interoperability of Joint & Coalition efforts.	1	2015	4	2017

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software				PROJECT C29: CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
C29: CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)	17.150	12.885	20.579	-	20.579	11.678	15.561	15.808	16.073	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Project C29 - Centralized Technical Support Facility: The Central Technical Support Facility (CTSF) located at FT Hood, Texas, is the Army's premier test, integration, and certification facility for interoperability. It is the Army's strategic facility responsible for supporting and conducting system engineering associated with integrating Army Battle Command System (ABCS) Weapon System architectures into a System of Systems, performing Army Interoperability Certification (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 validate 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. Projected relocation of CTSF to Aberdeen Proving Ground, Maryland, anticipated not later than FY 2014.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2011	FY 2012	FY 2013
Title: Army Interoperability Certification (AIC) Testing	2.150	6.735	10.290
Articles:	0	0	
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 2011 Accomplishments: SWB1 was fielded in limited quantities. Continued SWB2+ Tri-Annual testing; conducted CS 11-12 Tri-Annual testing, test planning, test case development, test floor architecture set-up, test tools, and test execution; tests include the Joint Capabilities Release (JCR), Joint Battle Command Platform (JCB-P), Joint AGILE Fire and the Distributed Common Ground System-Mobile Basic and DCGS-A Cloud architecture, new systems. Coordinated with PEO C3T Tactical Network Initialization and tested the go-to-war Data Products. Incorporated Host Based Security System in the test architecture for AIC testing to meet Army tactical deployment IAW G-3 fielding. Supported CIO/G-6 and TRADOC in developing new test methodology to assess interoperability			

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJECT C29: CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
as systems transition to the implementation of the Common Operating Environment (COE). Updated test tools to collect data in support of the COE. Verified and validated simulators/stimulators for use in labs to reduce costs, i.e. a satellite simulator in lieu of paying for satellite time. Served as the Army component in Joint and Coalition testing to support the Joint Interoperability Test Command in development of tactics, techniques, and procedures. Became the hub for Network Integration testing by facilitating distributed testing in a system of system architecture. FY 2012 Plans: Assumption: SWB1 is no longer fielded; testing of SWB1 is no longer required; SWB2 is fielded in limited quantities. Continue CS 11-12 Tri-Annual and CS 13-14/COE V1.0 baseline AIC test planning, test case development, test floor architecture set-up, test tools, and test execution; conduct CS 13-14/COE V1.0 testing/evaluation and certification. Continue JCR, JBC-P, and JT AGILE Fire tests; continue to coordinate with PEO C3T Tactical Network Initialization for baseline Data Products and to incorporate the go-to-war Data Products into AIC tests. Support CIO/G-6 and TRADOC in developing new test methodology to assess interoperability as systems transition to the implementation of the Common Operating Environment (COE). Update test tools to collect data in support of the COE. Serve as the Army component in Joint and Coalition testing to support the Joint Interoperability Test Command in development of tactics, techniques, and procedures. Become the hub for Network Integration testing by facilitating distributed testing in a system of system architecture. FY 2013 Plans: Continue COE V1.0 (replaces CS 13-14) test planning, test case development, test floor architecture set-up, test tools, and conduct CS 13-14/COE V1.0 testing/evaluation and certification; begin CS 15-16/COE V2.0 test planning, test case development. Continue to execute tests of Joint/Coalition and Afghanistan Mission Network (AMN)/CENTRIXS-ISAF in support of the PEOs, Joint Agencies, and JITC in the CTSF Joint Lab. Assist JITC in the development of Joint/LandWarNet TTPs. Continue to coordinate with PEO C3T Crypto Network Initialization for baseline Data Products and to incorporate the go-to-war Data Products into AIC tests.				
Title: System of Systems Integration(SoSI) Articles: Description: Continue to provide System of Systems Integration engineering support to the material developer by providing software validation/verification, network and systems engineering, integration labs and information assurance. FY 2011 Accomplishments: Supported material developer for CS 13-14/COE V1.0 integration. Supported backward compatibility testing between SWB2 and CS 11-12. Identified and incorporated software tools to monitor performance and assist in issue resolution. Integrated and implemented HBSS technology. Conducted integration and testing of Afghan Mission Network providing configuration, architecture design, and test case generation; extended integration and test architectures to include Program of Record (POR)		4.702 0	3.540 0	7.301

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJECT C29: CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
and non-POR radio communications devices to provide Material Developer (MatDev) testing in realistic environments; provided CTSF network and systems engineering integration support to PEO-I and 2/1 AD/WSMR for sensor and platform level for validation of end-to-end communications and interoperability, platform through Army Corps to Joint/Coalition; supported Network Integration Rehearsal (NIR) and Network Integration Exercise (NIE). Provided data product and software patch validation; network support for integration and test floors; network support to fielded units upon request; systems engineering and analysis support to system of systems integration activities. FY 2012 Plans: Support to material developer for CS 13-14/COE V1.0 integration and testing. Support to backward compatibility testing between CS 11-12 and CS 13-14/COE V1.0. Identify and incorporate software tools to monitor performance and assist in issue resolution. Integrate and implement HBSS technology. Conduct integration and testing of Afghan Mission Network providing configuration, architecture design, and test case generation; extend integration and test architectures to include Program of Record (POR) and non-POR radio communications devices to provide MatDev testing in realistic environments; provide CTSF network and systems engineering support to System of Systems Integration Directorate (SoSID) and 2/1 AD/WSMR for sensor and platform level for validation of end-to-end communications and interoperability, platform through Army Corps to Joint/Coalition; support NIR/NIE. Provide software patch validation; network support for integration and test floors; network support to fielded units upon request; and systems engineering and analysis support to system of systems integration activities. FY 2013 Plans: Support material developer for CS 13-14/COE V1.0 integration. Support backward compatibility testing between CS 11-12 and CS 13-14/COE V1.0. Identify and incorporate software tools to monitor performance and assist in issue resolution. Provide software patch validation. Provide network support for integration and test floors. Provide network support to fielded units on request. Provide systems engineering and analysis support to system of systems integration activities.				
Title: Facilities, Site Operations and Maintenance Articles: Description: Maintain 250,000 square foot facility, with 41,305 square feet dedicated to Army Interoperability Certification (AIC) testing and systems engineering. FY 2011 Accomplishments: Continue to provide infrastructure support for 250,000 square foot facility and 41,305 square feet dedicated to AIC testing floors and integration labs. FY12 and beyond, this effort will be apportioned and allocated to mission areas AIC Test, CM and Program Office.		4.148 0	-	-
Title: Management Operations/Program Office Articles:		2.029 0	1.404 0	1.561

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army			DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJECT C29: CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2011	FY 2012	FY 2013
<p>Description: Provide management operations consisting of programming and executing funds, personnel, contracts, and identifying reimbursable tests and allocating/collecting appropriate funds.</p> <p>FY 2011 Accomplishments: Programed and executed funds/manpower/contracting requirements; tracked testing schedules, prepared/ coordinated/tracked reimbursements for tests; SWB2 Tri-Annual testing; CS 11-12 AIC testing; CS 13-14/COE V1.0, Joint, Coalition, 2/1 AD/WSMR (NIE/NIR), SOSCOE, and future systems integration; field support coordination for unit training and exercises.</p> <p>FY 2012 Plans: Program and execute funds/manpower/contracting requirements; track testing schedule, prepare/coordinate/track reimbursements for tests; CS 11-12 Tri-Annual; CS 13-14/COE V1.0, Joint, Coalition, 2/1 AD/WSMR (NIE/NIR), SOSCOE, and future systems integration; field support coordination for unit training and exercises.</p> <p>FY 2013 Plans: Program and execute funds/manpower/contracting requirements; track testing schedule, prepare/coordinate/track reimbursements for tests. CS 13-14/COE V1.0 integration and testing, CS 11-12 Tri-Annual testing. Joint, Coalition, 2/1 AD/WSMR (NIE/NIR), SOSCOE, and future systems integration. Field Support coordination for unit training and exercises.</p>					
<p>Title: Configuration Management</p> <p>Articles:</p> <p>Description: Verify configuration, prior to test, of Program/Product Manager delivered software; control configuration during Program Manager tests of approved Warfighter baselines; maintain configuration integrity of certification test environment; maintain configuration management of certification baselines for HQ/DA CIO/G6 and the LandWarNet/Battle Command baseline for HQ/DA G3/5/7; disseminate approved software to deployed/deploying units.</p> <p>FY 2011 Accomplishments: Verify software configurations prior to test, control configurations during test, and maintain baselines for HQ/DA CIO G6 and LandWarNet/BC baselines for HQ/DA G3/5/7; disseminate software to deploying/deployed units. Initiate enhancements to Configuration Management Tracking Tool Version 3 (CMTSv3) to incorporate ASA(ALT), CTSF, HQ/DA G3 baseline tracking for Army Interoperability Certification of Systems Under Test; continue updating tool for automation of Army Interoperable Fielded Baseline (CE) and Army LandWarNet/BC Baseline (OE) output reports; enhance MatDev/PM/SO output support report; continue to integrate Micro Stag Reporting Tool into CMTSv3.</p> <p>FY 2012 Plans:</p>			1.342 0	1.206 0	1.427

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJECT C29: CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Verify software configurations prior to test, control certification during test, and maintain baselines for HQ/DA CIO/G6 and LandWarNet baselines for HQ/DA G3/5/7; sustain Configuration Management Tracking Tool Version 3 (CMTSv3) to incorporate CTSF Baseline tracking for Army Interoperability Certification of Systems Under test. Begin development of CMTSv3 modules to support the AGILE Process FY 2013 Plans: Verify software configuration prior to test, control configuration during test, and maintain baselines for HQ/DA CIO/G6 and LandWarNet/BC baselines for HQ/DA G3/5/7; disseminate software to deployed/deploying units. Sustain Configuration Management Tracking Tool Version 3 (CMTSv3) to incorporate CTSF Baseline tracking for Army Interoperability Certification of Systems Under test. Support AGILE Process with CMTSv3.				
Title: Information Technology (IT) Infrastructure Articles: Description: Provide unique IT infrastructure networks connections to include DISN, SIPRNET, NIPRNET, GUARDNET to support internal and distributed AIC testing. FY 2011 Accomplishments: Provide unique network configurations and support for the CTSF COOP facility. Provide unique IT infrastructure network connections to include NIPRNET, SIPRNET, DREN, SDREN, CFBLNet, CENTRIXS and internal testing network infrastructure to support internal and external AIC, early integration testing and PM support. Provide accreditation and certification support for the testing facility in order to maintain an Authority to Connect, including CFBLNet. Continue support of DoD 8570.1-M to maintain a trained and certified workforce. Continue software development for mission applications to include Business Intelligence Tools, resource loaded scheduling, test gathering tools and Army software baseline tools. Provide data management/backup support for all core mission data. Provide life cycle management of hardware assets. Provide Information Assurance compliance for the Campus. FY12 and beyond, this effort will be apportioned and allocated to mission areas AIC Test, CM and Program Office.		2.146 0	-	-
Title: Logistics Support Articles: Description: Received/controlled/distributed/tracked Program/Product Manager (PM) test assets; maintained/repaired/replaced/upgraded test floor; procured test equipment. FY 2011 Accomplishments: Receive/control/distribute/track Program/Product Manager (PM) test assets; maintain/repair/replace/upgrade test floor; procure test equipment.		0.633 0	-	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>	PROJECT C29: <i>CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
FY12 and beyond, this effort will be apportioned and allocated to mission areas AIC Test, CM and Program Office.			
Accomplishments/Planned Programs Subtotals		17.150	12.885
			20.579
C. Other Program Funding Summary (\$ in Millions)			
N/A			
D. Acquisition Strategy			
<p>Execute system of systems interoperability integration and testing through the use of Government and Systems Engineering and Technical Analysis (SETA) contract personnel experienced in product development and interoperability testing. Integration and testing occurs in a cyclical fashion, with an expectation of an annual Software Block/Capability Set test followed with cyclical test events (Tri-Annual Tests) to ensure integrity of software baselines to the Warfighter. System of Systems Integration and Validation engineering provides strategic integration of software into a system of systems/family 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 integration and testing capability using local assets and leveraging other federated test facilities to create synergy and realize efficiencies, to include system of system integration and test efforts at 2/1 AD/WSMR (NIR/NIE). Relocate to Aberdeen Proving Ground in phased, event-driven schedule to continue to provide seamless system of systems interoperability integration, test certification and configuration management capability.</p>			
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 2013 Army **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJECT C29: CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)
---	--	--

Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
CACI (JB Mgt)	C/CPAF	SoS Integration:Fort Hood, TX	5.837	-		-		-		-	0.000	5.837	0.000
CECOM/SEC Matrix	MIPR	CM and IT/IA:Fort Hood, TX	0.420	-		-		-		-	0.000	0.420	0.000
MITRE Corp	FFRDC	SoS Integration:Fort Hood, TX	13.144	1.884		1.925		-		1.925	Continuing	Continuing	Continuing
CECOM R2 3G	C/CPFF	Enterprise Integration & Validation Infrastructure:Fort Hood, TX	-	0.736		3.877		-		3.877	Continuing	Continuing	Continuing
In-House	Allot	SoS Integration:Fort Hood, TX	0.272	1.160		1.007		-		1.007	Continuing	Continuing	Continuing
Subtotal			19.673	3.780		6.809		-		6.809			

Remarks

In September 2011, the CACI(JB Mgmt) contract for System of Systems Integration transitioned to CECOM R2 3G contract vehicle.

Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
CECOM Matrix	MIPR	Test, Configuration Management, IT Support:Fort Hood, TX/Aberdeen Proving Grounds, MD	2.862	0.311		0.311		-		0.311	Continuing	Continuing	Continuing
In-House Support	Allot	Management Operations, Logistics Support:Fort Hood, TX	4.926	1.343		1.397		-		1.397	Continuing	Continuing	Continuing
Supplies	C/UCA	Management Operations, Logistics Support:Fort Hood, TX	-	0.298		0.895		-		0.895	Continuing	Continuing	Continuing
Subtotal			7.788	1.952		2.603		-		2.603			

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software				PROJECT C29: CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)					
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
CSC (Test/System Engineering)	C/CPAF	Test:Fort Hood, TX	5.784	-		-		-		-	0.000	5.784	0.000
ELECTRONIC PROVING GROUNDS	C/CPAF	Test:Fort Hood, TX	19.654	-		-		-		-	0.000	19.654	0.000
ILEX (Test/Config Mgmt)	C/CPAF	Test, Configuration Management:Fort Hood, TX	1.734	-		-		-		-	0.000	1.734	0.000
CAMBER	C/CPAF	Test, Configuration Management, Operations:Fort Hood, TX	10.841	-		-		-		-	0.000	10.841	0.000
CSC	C/CPFF	Facilities, Site Operations, Maintenance:Fort Hood, TX	9.949	-		-		-		-	0.000	9.949	0.000
CECOM R2 3G	C/CPFF	Test, Configuration Management:Fort Hood, TX	-	1.471		4.358		-		4.358	Continuing	Continuing	Continuing
CECOM S3	C/CPFF	Facilities, Maintenance, Security:Fort Hood, TX	-	1.965		3.474		-		3.474	Continuing	Continuing	Continuing
Instrumentation	C/UCA	Test Equipment Infrastructure:Fort Hood, TX	-	0.801		0.782		-		0.782	Continuing	Continuing	Continuing
EPG Matrix	MIPR	Test:Fort Hood, TX	0.907	1.510		1.258		-		1.258	Continuing	Continuing	Continuing
ISSA	MIPR	Test:Fort Hood, TX	2.890	0.838		0.716		-		0.716	Continuing	Continuing	Continuing
In-House Support	Allot	Test:Fort Hood, TX	0.250	0.568		0.579		-		0.579	Continuing	Continuing	Continuing
Subtotal			52.009	7.153		11.167		-		11.167			
Remarks In September 2011, EPG/ManTech, Camber, CSC, and ILEX contracts transitioned to CECOM R2 contract and will provide Test and Configuration Management functions. Also in September 2011, CSC/ManTech contract transitioned to CECOM S3 and will provide Site Support/Facilities, Maintenance, and Security functions.													

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army								DATE: February 2012				
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>				PROJECT C29: <i>CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)</i>				
		Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		79.470	12.885		20.579		-		20.579			
Remarks												

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army			DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>		PROJECT C29: <i>CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)</i>	

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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
Capability Set 11-12 Tri-Annual																												
Capability Set 13-14																												
Capability Set 13-14 Tri-Annual																												
--FBCB2 JCR 1.3																												
--JBCP 1.0																												
--WIN-T Inc 2																												
--WIN-T Inc 3																												
--WIN-T Inc 4																												
Joint AGILE Fire III, IV & V																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>	PROJECT C29: <i>CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Capability Set 11-12 Tri-Annual	2	2011	1	2015
Capability Set 13-14	3	2012	1	2017
Capability Set 13-14 Tri-Annual	3	2014	1	2017
--FBCB2 JCR 1.3	3	2011	3	2012
--JBCP 1.0	4	2011	1	2013
--WIN-T Inc 2	2	2011	3	2011
--WIN-T Inc 3	4	2012	2	2013
--WIN-T Inc 4	4	2013	2	2014
Joint AGILE Fire III, IV & V	3	2011	4	2012

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>				PROJECT C34: <i>ARMY TAC C2 SYS ENG</i>			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
C34: <i>ARMY TAC C2 SYS ENG</i>	11.886	15.179	48.505	-	48.505	18.024	18.405	19.253	19.693	Continuing	Continuing
Quantity of RDT&E Articles											
Note Not applicable for this item.											
A. Mission Description and Budget Item Justification Project DC34 - Army Tactical Command and Control Systems Engineering, which is also referred to as the Technical Management Division (TMD) (formerly Systems Engineering and Integration (SE&I)): Effectively manage the engineering, Enterprise and Integration efforts within the PEO C3T portfolio of technology and across the capability enhancement packages to deliver efficient and effective cross-domain technical solutions. TMD provides System Of System (SOS) test infrastructure and tools, Joint Command and Control (C2) convergence, and System Engineering (SE) documentation ensures C3T technical capabilities are defined, engineered, and integrated. Additionally, TMD synchronizes the integration of many Headquarters, Department of the Army initiatives impacting warfighters across the Army and assesses potential solutions (Program of Record (POR)/non-POR) to add more operational agility and capabilities to the war fight. In FY 2013, this effort supports the operational engagement and technical coordination between Army Expeditionary Task Force, Unit, PMs, and PEOs to field and integrate all the latest capabilities to the Brigade Combat team; the technical analysis supporting the Army's Common Operating Environment (COE) Assessment and implementation; an integrated test strategy, certification process, and integration efforts across the C3T portfolio of systems; Operational implementation of enterprise framework, tactical Host Based Security System and Advance Development (AD) tests/implementations/integration; development of capability set SoS architectures; server consolidation; integration of transport waveforms and development of Command Post (CP) and integrated Network Architectures.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2011	FY 2012	FY 2013	
Title: Continue Army Tactical Battle Command and Network Synchronization and Integration Support								0.760	1.278	1.893	
Articles:								0	0		
Description: .											
FY 2011 Accomplishments:											
Provided support to server infrastructure convergence; service architecture; and operating environment(s) synchronization to support efficiencies through the enterprise. Coordinated associated integrated technical support activities across the operational battlefield to support these architectures.											
FY 2012 Plans:											
Provide System of System (SoS) System engineering (SE) 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,											

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJECT C34: ARMY TAC C2 SYS ENG		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
& network operations. Provide on-site support to troubleshoot the tactical network and work across the C5ISR community to develop courses of action in resolving communication and architectural issues. FY 2013 Plans: Continue the support of current force and the development of future force C5ISR across the tactical network to ensure all programs are synchronized and redundancies and overlapping capabilities are reduced across the network and in synchronization with Common Operating Environment.				
Title: Continue Developmental Testing & Integration Testing between PORs and platforms / CPs to execute SoS and Interoperability Articles: Description: . FY 2011 Accomplishments: Created efficiencies in lab, certification processes, & integration efforts across the C3T portfolio of systems. Executed pre-interoperability and risk reduction testing and developed a venue for the developmental test-fix-test environment for CS 13/14 and beyond capabilities. FY 2012 Plans: Perform network integration efforts to ensure transport and mission command capabilities are integrated on platforms and in the command post. Develop strategies and SoS frameworks to extend the current platform capabilities to the dismounted soldier and to extend mission command applications to on-the-move platforms. Develop execution plan for the integration of future Joint/Coalition capability requirements into the common operation Environment framework. Execute ongoing PEO C3T SoS technology insertion evaluation and risk mitigation testing prior to certification and integrated test events. FY 2013 Plans: Continue to conduct integration testing and systems engineering for both non-program of records and program of record systems, products, technical insertions, and systems under evaluation to ensure integration of capabilities across the network. Provide collaborative developmental approach and training venue for new hire engineers.		0.760 0	1.652 0	2.215
Title: Manages Unit Set Fielding of ABCS Articles: Description: . FY 2011 Accomplishments:		0.916 0	-	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJECT C34: ARMY TAC C2 SYS ENG		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
PEO C3T RMD office plans and implements the Fielding and Training of Battle Command and Networking Capabilities to Army units in the Army Force Generation Process. C3T RMD will synchronize these efforts across the Army's tactical information technology spectrum for approximately 80-100 brigade sized elements per year through either initial training and fielding, or as an upgrade during the reset process.				
<p>Title: Continue Tactical Network Engineering</p> <p>Articles:</p> <p>Description: .</p> <p>FY 2011 Accomplishments: Led PEO C3T network capability engineering, integration, and deployment as part of C5ISR ONS implementation. Designed efficient means to consolidate tactical server infrastructure within PEO C3T and across the Ops-Intel domains. Performed initial integration of SRW-based HMS radios with JBC-P applications.</p> <p>FY 2012 Plans: Design and integrate the Network for the capstone integrated tests and evaluations; provide SE leadership for event planning and on-site support to troubleshoot Network. Lead the Initialization, Network Services, Mission Command, Logistics , NETOPS, Test, and SoS SE IPTs. Validate ability to maneuver battle command services across the Enterprise and support Army Common Operating Environment (s) framework and implementation. Engineer a baseline PRC-117G network architecture and work with CREW engineers to identify an interoperable solution.</p> <p>FY 2013 Plans: Develop effective engineering strategies to integrate tactical applications for use across the enterprise network. Continue to perform network planning and integration activities across all cross-domain systems of system future capabilities and technologies.</p>		1.000 0	1.241 0	1.497
<p>Title: Conduct and Support System Interoperability Engineering and Development of SoS Architectural Products</p> <p>Articles:</p> <p>Description: .</p> <p>FY 2011 Accomplishments: Developed Afghan Mission Network architecture, supported training events, and implemented fielding plan(s) to deploy equipment for the CX-I enclave to both units in theater and deploying. Developed and integrated transport and application capabilities in support of capability set 11/12 and ensured all capabilities on the network were interoperable.</p> <p>FY 2012 Plans:</p>		0.340 0	2.788 0	3.044

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army			DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>		PROJECT C34: <i>ARMY TAC C2 SYS ENG</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2011	FY 2012	FY 2013
Support mission thread development to achieve additional capability and gain efficiencies through a common, scalable architecture and infrastructure (hardware, services, applications) aligned with the Common Operating Environment that can be deployed at multiple echelons, in multiple Computing Environments, based on mission, across multiple security enclaves (Internet, NIPR, SIPR, JWICS, NSANet, and Coalition).Develop internal PEO C3T data collection reduction and analysis capability to assist in identifying potential network issues early in the systems development of new technologies. Develop a single documented process for SoS architectures for CS 13/14 and beyond. FY 2013 Plans: Continue to support the assessment of Emerging Technologies, identification of critical integrated test points, developmental testing at integration points, architectural data process/tool kits , and transition of Network capabilities to the warfighter.					
Title: Continue Exploring State of the Art Technology Insertion in Support of the ABCS Program and Army Networks Description: . FY 2011 Accomplishments: Complete development, documentation and validation of the the Proposed1.0 Standards (the initial deployable product) and corresponding architectures and develop an execution plan for two independent implementations of the Proposed 1.0 Standards. Finalize the governance structure for VICTORY by the senior leaders and support various vehicle programs converging towards VICTORY compatibility and compliance. Continue Standards Body to further refine the proposed standards document.			Articles: 2.000 0	-	-
Title: Continue Development and Implementation of Tactical Information Assurance Description: . FY 2011 Accomplishments: Managed and executed HBSS Pilot test for the Army. Developed, coordinated and executed HBSS implementation and fielding across the Army. FY 2012 Plans: Continue to support the Security Data and Log Management (SDLM) working group lead under the Army Office of Information Assurance, and Compliance (OIA&C) by providing requirements, architecture, and technical solutions for Army incident response, log management, security event rollup, and archiving. Aid in the documentation of future Army Security and Data Log			Articles: 0.320 0	0.600 0	0.673

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software	PROJECT C34: ARMY TAC C2 SYS ENG		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Management requirements. Coordinate with PM offices for the implementation of PK Enablement. Continue to implement , field, train, and test new policies and phases of HBSS.				
FY 2013 Plans: Continue to support CIO/G6 and CYBERCOM guidance for execution of Information Assurance policies and procedures at the tactical level. Continue to plan and design security measures and IA requirements across the tactical network for future capabilities.				
Title: Continue System of Systems Development		3.000	4.963	5.613
Articles:		0	0	
Description: .				
FY 2011 Accomplishments: Verified and validated CS 11/12 architecture components across the army wrt to interoperability and system and system development planning. Resolved network integration and platform at multiple echelons across multiple non-POR capabilities .				
FY 2012 Plans: Assure the PEO C3T SoS technical capabilities delivered in support of the Army Capability Set Management Process and in support of current operations (OEF-focused) are defined, engineered, and integrated within the PEO and across the Army Enterprise. Provide Army SoS engineering on major HQDA capability initiatives that impact the tactical warfighter. Assess potential C3 solutions to break down functional stove-pipes, accommodate non-POR opportunities, and add a new level of operational agility in support of the warfighter. Deliberate SoS Engineering and Integration; Current Ops SoS Engineering and Integration; Enterprise SoS Engineering; Rapid Technology Insertion; PEO C3T Strategic Initiatives.				
FY 2013 Plans: Continue to effectively manage overall Systems of Systems (SoS) Engineering, Enterprise, and Integration efforts for the PEO C3T portfolio of technology and capability enhancement programs.				
Title: System of Systems Engineering and Integration Evolution of the Network		2.790	2.657	2.911
Articles:		0	0	
Description: .				
FY 2011 Accomplishments:				

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>	PROJECT C34: <i>ARMY TAC C2 SYS ENG</i>		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Engage and influence G3 on CS development, G6 on Line Of Efforts, ASAALT SoS SE on cross-Army capability engineering, and PEO Integration on formation-specific technical integration. Based on CS 11/12 lessons learned, revise and implement cross-PEO SoS Engineering and Integration processes for CS 13/14 to assure successful development, integration, test, and fielding. FY 2012 Plans: Develop streamlined processes to support ASA(ALT) SoS SE group, VE, and Lean Six Sigma across all PEO C3T capabilities to include Joint/Coalition partners and the current fight. FY 2013 Plans: Continue to develop streamlined processes to support ASA(ALT) SoS SE group, VE and Lean Six Sigma across all PEO C3T capabilities to include the Joint Coalition partners. Also to continue to implement cross PEO SoS Engineering and Intergration processes to to ensure sucessful development Engineering and Testing.				
Title: Supports Network Intialization and enabling digital communication engineering support. Description: . FY 2013 Plans: In support of the dynamic initialization development, providing warfighters with a transparent means of network initialization and enabling digital communication. The value added of this capability will provide the combatant commander with the long-awaited, operational flexibility of modifying his/her organization, while maintaining constant command and control, in order to adapt to the dynamic changes dictated by Mission, Enemy, Terrain, Troops & Time Available (METT_T). Additionally, this capability will benefit the taxpayer by significantly reducing the number of Field Service Representatives needed to support a static initialization capability, as well as, reducing the data product production staff needed to produce a static initialization product for every specific unit. This capability will shift the Project Directorate's focus from initialization data and data propagation to initialization standardization.		-	-	2.460
Title: Enterprise Architecture Description: Funding is provided for the following effort: To provide architecture products which serve as input to the Army's Agile Process and the Joint Capabilities Integration Development System (JCIDS). They answer Senior leader questions and provide the basis for more extensive architecture required to conduct actual field testing by Army organizations within the Network Integration Evaluation (NIE) process. FY 2013 Plans: Support Army Senior Leader Decision Making: Provide Executive Views of baseline architecture and alternative courses of action which support quick turn analysis and provide essential detail for Senior Army Leaders.		-	-	28.199

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army			DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>		PROJECT C34: <i>ARMY TAC C2 SYS ENG</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2011	FY 2012	FY 2013
<p>Centralized Repository of Enterprise Architecture: Maintain a centralized authoritative repository of Enterprise Architecture Data that supports development and reuse of integrated Army architecture products. Provide a standard suite of architecture development tools, workspace for the development of architecture, and is federated with the architecture repositories of DOD, the Air Force, Navy, and USMC.</p> <p>Operational Support: Develop Army, Joint, and Coalition mission threads for the functional mission areas (Mission Command, Network, Fires, Logistics, Intelligence, Personnel, etc). The resulting products will be used to develop and modify the Force Structure, Generating Force and Network design and determine if functional mission area capabilities meets the operational demands. The products will also be directly correlated to the Software Architectures employed to develop code under the Common Operating Environment (COE)</p> <p>Organizationally Based Architecture: 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.</p> <p>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.</p> <p>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.</p>					
Accomplishments/Planned Programs Subtotals			11.886	15.179	48.505
C. Other Program Funding Summary (\$ in Millions)					
N/A					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>	PROJECT C34: <i>ARMY TAC C2 SYS ENG</i>
<p><u>D. Acquisition Strategy</u></p> <p>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 SOS SE 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. Fiscal Year 2012 will focus on working the Army Network Modernization strategy and implementation to include: emerging technologies; coordination of network services; current and force integrated C5ISR network/transport architectures; integrated developmental, technical, and operational test schedules/documentation; and the tactical assessment and execution of the enterprise framework. Fiscal Year 2013 will focus on the continued development, implementation and integration of the C5ISR network architectures to improve the tactical assessment and execution of the Enterprise framework. The NIE will also continue to evolve to become the Army's premiere tactical network and continue to be a key element of the Army's emerging Network Strategy.</p> <p><u>E. Performance Metrics</u></p> <p>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.</p>		

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT					
2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				PE 0604818A: Army Tactical Command & Control Hardware & Software				C34: ARMY TAC C2 SYS ENG					
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Emerging Technologies	SS/FP	Northrop Grumman:Fort Monmouth, NJ/Fort Hood, TX	20.038	0.797		1.398		-		1.398	Continuing	Continuing	Continuing
System Of System Engineering and Integration, Current amd Strategic Initiatives	SS/FFP	CSC Aberdeen Proving Ground /Fort Hood, TX:APG	48.613	1.252		4.731		-		4.731	Continuing	Continuing	Continuing
Architecture Integration	C/FP	CSC:various	4.792	1.850		4.629		-		4.629	Continuing	Continuing	Continuing
Systems Engineering Support	SS/FP	LOCKHEED MARTIN:Eatontown, NJ	7.627	0.284		0.473		-		0.473	Continuing	Continuing	Continuing
MITRE Contractor Engineering Support	SS/FP	Aberdeen Proving Grounds, MD/Ft Monmouth, NJ/ Eatontown, NJ:APG	70.764	5.560		6.615		-		6.615	Continuing	Continuing	Continuing
Tactical Network Initialization	SS/FP	TBD:tdb	-	-		2.460		-		2.460	Continuing	Continuing	Continuing
Subtotal			151.834	9.743		20.306		-		20.306			
Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
IN-HOUSE SUPPORT	SS/FP	PEO C3T:APG, MD/Ft. Monmouth, NJ	23.937	4.661		-		-		-	Continuing	Continuing	Continuing
MATRIX	SS/FP	CECOM:Fort Monmouth, NJ/Fort Hood, TX	9.955	0.175		-		-		-	Continuing	Continuing	Continuing
OTHER GOVERNMENT SUPPORT	Various	Various:Various	6.658	0.600		-		-		-	Continuing	Continuing	Continuing
BES Architecture	SS/ FFPLOE	NIE:FTB/WSMR	-	-		28.199		-		28.199	0.000	28.199	0.000
Subtotal			40.550	5.436		28.199		-		28.199			

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>				PROJECT C34: <i>ARMY TAC C2 SYS ENG</i>			
	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	192.384	15.179		48.505		-		48.505			

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army			DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>		R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>		PROJECT C34: <i>ARMY TAC C2 SYS ENG</i>	

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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																												

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>	PROJECT C34: <i>ARMY TAC C2 SYS ENG</i>	

Schedule Details

Events	Start		End	
	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

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604818A: Army Tactical Command & Control Hardware & Software				PROJECT JN1: JOINT NETWORK NODE (JNN) TESTING			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
JN1: JOINT NETWORK NODE (JNN) TESTING	-	13.170	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles											

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-the network 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.

FY 2012: Funding will be used for Operational Test of the Inc 1b technical insertion scheduled to be conducted 3rd quarter FY 2012 in conjunction with Inc 2 Initial Operational Test and Evaluation (IOT&E).

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Title: Operational Testing Event Articles: Description: Funding is provided for the following effort FY 2012 Plans: Operational Testing Event	-	13.170 0	-
Accomplishments/Planned Programs Subtotals	-	13.170	-

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

N/A

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 addition 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 expected merger of JNN and WIN-T, laying the foundation for the restructured WIN-T program, and directing a number of actions to start the way ahead for the

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>	PROJECT JN1: <i>JOINT NETWORK NODE (JNN) TESTING</i>
<p>combined program. The WIN-T ACAT 1D program now consist of four separately reporting Increments, with JNN re-designated as WIN-T Increment 1. RDT&E funding will be used to test the output of the production.</p> <p>FY 2012: Funding will be used for Operational Test of the Inc 1b technical insertion scheduled to be conducted 3rd quarter FY 2012 in conjunction with Inc 2 Initial Operational Test and Evaluation (IOT&E).</p>		
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 2013 Army											DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>				PROJECT JN1: <i>JOINT NETWORK NODE (JNN)</i> TESTING					

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ATEC Testing requirment	Various	TBD:TBD	-	13.170		-		-		-	0.000	13.170	0.000
Subtotal			-	13.170		-		-		-	0.000	13.170	0.000

	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	13.170		-		-		-	0.000	13.170	0.000

Remarks

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army																DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY								R-1 ITEM NOMENCLATURE								PROJECT			
2040: Research, Development, Test & Evaluation, Army								PE 0604818A: Army Tactical Command &								JN1: JOINT NETWORK NODE (JNN)			
BA 5: Development & Demonstration (SDD)								Control Hardware & Software								TESTING			

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604818A: <i>Army Tactical Command & Control Hardware & Software</i>	PROJECT JN1: <i>JOINT NETWORK NODE (JNN)</i> TESTING	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Operational Test	3	2012	3	2012