

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army									DATE: February 2010		
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							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	63.552	79.448	60.970	0.000	60.970	36.863	44.781	43.458	30.998	Continuing	Continuing
323: COMMON HARDWARE SYSTEMS	7.066	12.133	18.295	0.000	18.295	8.273	7.943	7.756	2.162	Continuing	Continuing
334: COMMON SOFTWARE	21.193	16.814	12.735	0.000	12.735	5.944	16.414	8.576	3.224	Continuing	Continuing
C15: MOUNTED BATTLE COMMAND ON-THE-MOVE (MBCOTM)	11.459	0.316	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
C29: CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)	12.620	8.781	17.720	0.000	17.720	10.485	9.158	8.783	8.708	Continuing	Continuing
C34: ARMY TAC C2 SYS ENG	11.214	28.678	12.220	0.000	12.220	12.161	11.266	18.343	16.904	Continuing	Continuing
JN1: JOINT NETWORK NODE (JNN) TESTING	0.000	12.726	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Note Not applicable for this item.											
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 ATCCS Engineering Program, known as the Technical Management Division (TMD (formerly Systems Engineering and Integration (SE&I))), provides the required overall systems engineering to assure integrated Army Tactical Command and Control and the utilization of common hardware and software throughout the five ATCCS nodal systems. TMD efforts will focus on "Systems of Systems" 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											

UNCLASSIFIED

R-1 Line Item #112

Page 1 of 53

1618 of 1922

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army			DATE: February 2010		
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			
well as leveraging emerging technologies. This program element also includes the Central Technical Support Facility (CTSF) which is the Army's single strategic facility responsible for executing System of System Interoperability checkout, testing, physical system integration and configuration mgt of the Army's Land WarNet Baseline." The Common Hardware and Software projects provide common products to customers to meet their developmental and fielding needs. The Joint Network Node (JNN) Testing is the Increment 1b Technical Insertion to Increment 1a for Operational Test, which will be conducted in FY 2012 in conjunction with the Increment 2 Initial Operational Test and Evaluation. These systems support the Legacy to Objective transition path.					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	65.317	90.864	73.001	0.000	73.001
Current President's Budget	63.552	79.448	60.970	0.000	60.970
Total Adjustments	-1.765	-11.416	-12.031	0.000	-12.031
• Congressional General Reductions		-11.416			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-1.765	0.000			
• Adjustments to Budget Years	0.000	0.000	-12.031	0.000	-12.031
Change Summary Explanation					
Change Summary Explanation: FY 2011: Funds realigned to higher priority Army requirements.					

UNCLASSIFIED

R-1 Line Item #112

Page 2 of 53

1619 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army								DATE: February 2010			
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>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
323: <i>COMMON HARDWARE SYSTEMS</i>	7.066	12.133	18.295	0.000	18.295	8.273	7.943	7.756	2.162	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification <p>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 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. In FY2011, CHS continues to manage the acquisition and delivery of CHS equipment, technology insertion and common standardized testing in support of customer requirements. CHS-4, to be awarded 3Q FY10, will be a follow-on to the CHS-3 Contract. Increases in FY2010 and FY2011 funding support award of the CHS-4 (next generation hardware) contract, product development and non-recurring engineering. Footnote: Decrement was applied against incorrect projects. The data base will be corrected in the next version.</p>											
B. Accomplishments/Planned Program (\$ in Millions)											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1							5.921	6.353	5.795	0.000	5.795
Continue management of the acquisition and delivery of CHS equipment in support of customer requirements											
<i>FY 2009 Accomplishments:</i>											
FY 2009											
<i>FY 2010 Plans:</i>											
FY 2010											
<i>FY 2011 Base Plans:</i>											
FY 2011 Base											

UNCLASSIFIED

R-1 Line Item #112

Page 3 of 53

1620 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010				
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				
B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: FY 2011 OCO								
Program #2 Continue supporting customer testing efforts with CHS equipment FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO				0.154	0.200	0.000	0.000	0.000
Program #3 Continue CHS technology insertion FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010				0.991	0.244	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #112

Page 4 of 53

1621 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
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		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #4 Design, development and testing (NRE Costs) for New CHS-4 Products		0.000	5.000	12.500	0.000	12.500
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #5 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)		0.000	0.336	0.000	0.000	0.000
FY 2009 Accomplishments: FY 2009						

UNCLASSIFIED

R-1 Line Item #112

Page 5 of 53

1622 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
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>		
<u>B. Accomplishments/Planned Program (\$ in Millions)</u>						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<i>FY 2010 Plans:</i> FY 2010 <i>FY 2011 Base Plans:</i> FY 2011 Base <i>FY 2011 OCO Plans:</i> FY 2011 OCO						
Accomplishments/Planned Programs Subtotals		7.066	12.133	18.295	0.000	18.295
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A						
<u>D. Acquisition Strategy</u> 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 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 GDC4S in May 2003, for ruggedization and production. There is an increase in FY2010 & FY2011 for CHS-4 contract award, product development and Non-Recurring Engineering.						
<u>E. Performance Metrics</u> 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

R-1 Line Item #112

Page 6 of 53

1623 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010																																																																																																											
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>																																																																																																														
Product Development (\$ in Millions) <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Cost Category Item</th> <th rowspan="2">Contract Method & Type</th> <th rowspan="2">Performing Activity & Location</th> <th rowspan="2">Total Prior Years Cost</th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th rowspan="2">Cost To Complete</th> <th rowspan="2">Total Cost</th> <th rowspan="2">Target Value of Contract</th> </tr> <tr> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>Product Development</td> <td>C/Various</td> <td>Fort Monmouth NJ</td> <td align="right">69.372</td> <td align="right">2.820</td> <td></td> <td align="right">2.068</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">2.068</td> <td>Continuing</td> <td>Continuing</td> <td align="right">0</td> </tr> <tr> <td>Support Costs</td> <td>C</td> <td>Fort Monmouth NJ</td> <td align="right">57.893</td> <td align="right">3.533</td> <td></td> <td align="right">3.727</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">3.727</td> <td>Continuing</td> <td>Continuing</td> <td align="right">0</td> </tr> <tr> <td>Technology Insertion</td> <td>C/Various</td> <td>Various Location could not be determined.</td> <td align="right">13.121</td> <td align="right">0.580</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td>Continuing</td> <td>Continuing</td> <td align="right">0</td> </tr> <tr> <td>GDC4S/CHS-3 Non-Recurring Engineering</td> <td>C</td> <td>Taunton MA</td> <td align="right">0.000</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td>Continuing</td> <td>Continuing</td> <td align="right">0</td> </tr> <tr> <td>CHS-4 Non-Recurring Engineering</td> <td>C</td> <td>Nothing entered for Activity and Location. Location could not be determined.</td> <td align="right">17.500</td> <td align="right">5.000</td> <td></td> <td align="right">12.500</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">12.500</td> <td>Continuing</td> <td>Continuing</td> <td align="right">0</td> </tr> <tr> <td align="right" colspan="3">Subtotal</td> <td align="right">157.886</td> <td align="right">11.933</td> <td></td> <td align="right">18.295</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">18.295</td> <td></td> <td></td> <td align="right">0.000</td> </tr> </tbody> </table>														Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Product Development	C/Various	Fort Monmouth NJ	69.372	2.820		2.068		0.000		2.068	Continuing	Continuing	0	Support Costs	C	Fort Monmouth NJ	57.893	3.533		3.727		0.000		3.727	Continuing	Continuing	0	Technology Insertion	C/Various	Various Location could not be determined.	13.121	0.580		0.000		0.000		0.000	Continuing	Continuing	0	GDC4S/CHS-3 Non-Recurring Engineering	C	Taunton MA	0.000	0.000		0.000		0.000		0.000	Continuing	Continuing	0	CHS-4 Non-Recurring Engineering	C	Nothing entered for Activity and Location. Location could not be determined.	17.500	5.000		12.500		0.000		12.500	Continuing	Continuing	0	Subtotal			157.886	11.933		18.295		0.000		18.295			0.000
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																																																																									
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost																																																																																																												
Product Development	C/Various	Fort Monmouth NJ	69.372	2.820		2.068		0.000		2.068	Continuing	Continuing	0																																																																																																									
Support Costs	C	Fort Monmouth NJ	57.893	3.533		3.727		0.000		3.727	Continuing	Continuing	0																																																																																																									
Technology Insertion	C/Various	Various Location could not be determined.	13.121	0.580		0.000		0.000		0.000	Continuing	Continuing	0																																																																																																									
GDC4S/CHS-3 Non-Recurring Engineering	C	Taunton MA	0.000	0.000		0.000		0.000		0.000	Continuing	Continuing	0																																																																																																									
CHS-4 Non-Recurring Engineering	C	Nothing entered for Activity and Location. Location could not be determined.	17.500	5.000		12.500		0.000		12.500	Continuing	Continuing	0																																																																																																									
Subtotal			157.886	11.933		18.295		0.000		18.295			0.000																																																																																																									
Remarks																																																																																																																						

UNCLASSIFIED

R-1 Line Item #112

Page 7 of 53

1624 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010		
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>					
Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
Not applicable	C	Nothing entered for Activity and Location. Location could not be determined.	0.000	0.000		0.000		0.000		0.000	0	0	0
Subtotal			0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Remarks													
Test and Evaluation (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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	C	Other Government Activities Location could not be determined.	1.800	0.200		0.000		0.000		0.000	Continuing	Continuing	0
Subtotal			1.800	0.200		0.000		0.000		0.000			0.000
Remarks													

UNCLASSIFIED

R-1 Line Item #112

Page 8 of 53

1625 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army									DATE: February 2010								
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>							
		Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract					
Project Cost Totals		159.686	12.133		18.295		0.000		18.295			0.000					
Remarks																	

UNCLASSIFIED

UNCLASSIFIED

[illegible]

UNCLASSIFIED

R-1 Line Item #112

Page 10 of 53

1627 of 1922

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010	
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				
	Start		End	
Event	Quarter	Year	Quarter	Year
CHS-4 Award	2	2010	2	2010

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army								DATE: February 2010			
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>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
334: <i>COMMON SOFTWARE</i>	21.193	16.814	12.735	0.000	12.735	5.944	16.414	8.576	3.224	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): Common Software is the program through which the Army procures, 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 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.FY11 funding will continue the development, acquisition management, and delivery of ABCS Software in support of Army and Joint Service requirements. Funding will also be used to develop the System of Systems (SOS) architecture for Battle Command systems providing a cohesive development strategy amongst C2 systems.											
B. Accomplishments/Planned Program (\$ in Millions)											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1 Continue the development, acquisition management and delivery of the ABCS common software enterprise infrastructure in support of Army and Joint Services requirements. <i>FY 2009 Accomplishments:</i> FY 2009 <i>FY 2010 Plans:</i> FY 2010							12.687	10.903	9.110	0.000	9.110

UNCLASSIFIED

R-1 Line Item #112

Page 12 of 53

1629 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010				
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				
B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base								
FY 2011 OCO Plans: FY 2011 OCO								
Program #2 Serve as the executive agent and provide software for interoperability, for Joint and Coalition efforts.				3.860	2.361	1.313	0.000	1.313
FY 2009 Accomplishments: FY 2009								
FY 2010 Plans: FY 2010								
FY 2011 Base Plans: FY 2011 Base								
FY 2011 OCO Plans: FY 2011 OCO								
Program #3 Develop the System of System (SOS) architecture for Battle Command (BC) systems.				4.527	2.951	2.180	0.000	2.180
FY 2009 Accomplishments: FY 2009								

UNCLASSIFIED

R-1 Line Item #112

Page 13 of 53

1630 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
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		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #4 Evaluation through demonstration and continuous testing of RFID for movement of materiel from a Defense Distribution Center (DDC) to an Army designated installation and/or tactical supply activity. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		0.119	0.129	0.132	0.000	0.132
Program #5 Small Business Innovative Research/Small Business Technology Transfer Programs		0.000	0.470	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #112

Page 14 of 53

1631 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army							DATE: February 2010				
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 Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
<i>FY 2009 Accomplishments:</i> FY 2009 <i>FY 2010 Plans:</i> FY 2010 <i>FY 2011 Base Plans:</i> FY 2011 Base <i>FY 2011 OCO Plans:</i> FY 2011 OCO											
Accomplishments/Planned Programs Subtotals						21.193	16.814	12.735	0.000	12.735	
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• Ord. #1: <i>Not applicable for Common Software Program</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0
D. Acquisition Strategy											
<p>In accordance with the TRADOC requirements document approved in 2008, entitled Battle Command Essential Capability, software capability will be developed in 2-year increments as capability sets designed to Collaborate, Collapse and Converge Battle Command products. The product development funded under this R-Form is an integral part of the Army Battle Command System (ABCS), a system of systems and will be accomplished primarily under a PM Battle Command (BC) 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. The overall acquisition goal of the Common Software 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>											

UNCLASSIFIED

R-1 Line Item #112

Page 15 of 53

1632 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army		DATE: February 2010
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</i> <i>Hardware & Software</i>	PROJECT 334: <i>COMMON SOFTWARE</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

R-1 Line Item #112

Page 16 of 53

1633 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010			
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				
Product Development (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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	
Matrix Support of CS Lab, Data Access	C	CECOM Fort Monmouth, NJ	1.853	0.000		0.000		0.000		0.000	0	1.853	0	
Engineering/Software Development	C	Various Contractors / Various Locations Location could not be determined.	86.097	10.425		8.045		0.000		8.045	Continuing	Continuing	0	
ABCS System Engineering & Integration	C	PEO C3T Fort Monmouth, NJ	0.210	0.000		0.000		0.000		0.000	0	.210	0	
ABCS/Army System Engineering & Integration	C	Various Contractors / Various Locations Location could not be determined.	1.448	0.971		0.850		0.000		0.850	Continuing	Continuing	0	
Battle Command System of Systems Architecture Development	C	Various Contractors / Various Locations Location could not be determined.	4.270	2.915		1.480		0.000		1.480	Continuing	Continuing	0	
Digital System Engineers	C	Mantech Ft. Hood, TX	14.400	0.000		0.000		0.000		0.000	0	14.400	0	
3D Display Technology	C	Concurrent Technology Corp. Johnstown, PA	9.083	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
IDM-T Engineering Support	C	GSA Contractors Location could not be determined.	2.000	0.000		0.000		0.000		0.000	0	2.000	0	

UNCLASSIFIED

R-1 Line Item #112

Page 17 of 53

1634 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010		
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>					
Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
DISA Support for COE	C	Nothing entered for Activity and Location. Location could not be determined.	1.486	0.000		0.000		0.000		0.000	0	1.486	0
Subtotal			120.847	14.311		10.375		0.000		10.375			0.000
Remarks													
Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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	C	PM Battle Command Ft. Monmouth, NJ	5.045	0.589		0.350		0.000		0.350	Continuing	Continuing	0
Technical Support	C	Various Contractors / Various Locations Location could not be determined.	1.379	0.175		0.185		0.000		0.185	Continuing	Continuing	0
Subtotal			6.424	0.764		0.535		0.000		0.535			0.000
Remarks													

UNCLASSIFIED

R-1 Line Item #112

Page 18 of 53

1635 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army										DATE: February 2010			
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					
Test and Evaluation (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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	C	Various Contractors/ Various locations Location could not be determined.	2.357	1.048		1.100		0.000		1.100	Continuing	Continuing	0
Subtotal			2.357	1.048		1.100		0.000		1.100			0.000
Remarks													
Management Services (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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	C	Fort Monmouth NJ	6.148	0.691		0.725		0.000		0.725	Continuing	Continuing	0
Subtotal			6.148	0.691		0.725		0.000		0.725			0.000
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			135.776	16.814		12.735		0.000		12.735			0.000

UNCLASSIFIED

R-1 Line Item #112

Page 19 of 53

1636 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army							DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE			PROJECT			
2040: Research, Development, Test & Evaluation, Army			PE 0604818A: Army Tactical Command & Control			334: COMMON SOFTWARE			
BA 5: Development & Demonstration (SDD)			Hardware & Software						
	Total Prior Years Cost	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	
Remarks									

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army																								DATE: February 2010			
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			

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010	
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</i> <i>Hardware & Software</i>	PROJECT 334: <i>COMMON SOFTWARE</i>		
Schedule Details				
	Start		End	
Event	Quarter	Year	Quarter	Year
Common Software Capbility Set 13-14 Development	2	2010	1	2012
Common Software Capbility Set 15-16 Development	2	2012	1	2014

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army									DATE: February 2010		
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 C15: MOUNTED BATTLE COMMAND ON-THE-MOVE (MBCOTM)			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
C15: MOUNTED BATTLE COMMAND ON-THE-MOVE (MBCOTM)	11.459	0.316	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification											
The Mounted Battle Command On The Move System (MBCOTM) is a Command, Control, Computers, Communications, Intelligence (C4I) mission equipment package (B Kit) integrated onto Bradley, Stryker and Mine Resistant Ambush Protected (MRAP) platforms which allows commanders to move to the decisive point on the battlefield. The focus of MBCOTM is to facilitate commander execution of net centric operations versus command post centric operations. MBCOTM provides the battlefield Commander situational awareness in the form of a digital common operational picture, enabling a Commander to maintain situational understanding while On The Move and when physically separated from the fixed Command Post performing Battlefield circulation. MBCOTM supports the mission area command and control by integrating network and SATCOM enablers to include components resident in the WIN-T Increment 2 architecture, as well as a number of Battelfield Automated Systems including Command Post of the Future (CPoF). Potential future capabilities could include adding Joint Tactical Radio System and Wideband Gapfiller System.											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Program #1						0.000	0.316	0.000	0.000	0.000	
System Development/Tech Upgrades											
FY 2009 Accomplishments:											
FY 2009											
FY 2010 Plans:											
FY 2010											

UNCLASSIFIED

R-1 Line Item #112

Page 23 of 53

1640 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010				
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 C15: MOUNTED BATTLE COMMAND ON-THE-MOVE (MBCOTM)				
B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base								
FY 2011 OCO Plans: FY 2011 OCO								
Program #2 Prototype Build				0.000	0.000	0.000	0.000	0.000
FY 2009 Accomplishments: FY 2009								
FY 2010 Plans: FY 2010								
FY 2011 Base Plans: FY 2011 Base								
FY 2011 OCO Plans: FY 2011 OCO								
Program #3 Program Spt/SSEB				0.000	0.000	0.000	0.000	0.000
FY 2009 Accomplishments: FY 2009								

UNCLASSIFIED

R-1 Line Item #112

Page 24 of 53

1641 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
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 C15: MOUNTED BATTLE COMMAND ON-THE- MOVE (MBCOTM)		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #4 Test/Evaluation		11.459	0.000	0.000	0.000	0.000
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #5 Small Business Innovative Research/Small Business Technology Transfer Programs.		0.000	0.000	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #112

Page 25 of 53

1642 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army							DATE: February 2010				
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 C15: <i>MOUNTED BATTLE COMMAND ON-THE-MOVE (MBCOTM)</i>					
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
<i>FY 2009 Accomplishments:</i> FY 2009 <i>FY 2010 Plans:</i> FY 2010 <i>FY 2011 Base Plans:</i> FY 2011 Base <i>FY 2011 OCO Plans:</i> FY 2011 OCO											
Accomplishments/Planned Programs Subtotals						11.459	0.316	0.000	0.000	0.000	
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011 Base</u>	<u>FY 2011 OCO</u>	<u>FY 2011 Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• Ord. #1: <i>Mounted Battle Command on the Move MBCOTM - OPA (BZ9970)</i>	43.793	0.923	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
D. Acquisition Strategy											
The CAMC2 contract was awarded to Lockheed Martin on 08 Feb 08 and subsequently terminated for convenience on 22 Jul 08. The MBCOTM FY09 RDT&E is primarily for MRAP and Stryker A-Kit design/development, complete level III drawing packages, platform test and log product development. The FY10 effort is primarily logistical support.											
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

R-1 Line Item #112

Page 26 of 53

1643 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army								DATE: February 2010			
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>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
C29: <i>CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)</i>	12.620	8.781	17.720	0.000	17.720	10.485	9.158	8.783	8.708	Continuing	Continuing
Quantity of RDT&E Articles											
Note FY 10: An \$8 million Congressional reduction for operational test funds requested ahead of need was applied to the wrong project. The database will be corrected in the next budget cycle. 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 and net-worthiness. It is the Army's strategic facility responsible for 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 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 and net-worthiness 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.Footnote: Decrement was applied against incorrect projects. The data base will be corrected in the next version. B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Program #1						2.189	1.865	3.538	0.000	3.538	
Continue certification test planning/procedures/execution/reporting, interoperability baseline testing, simulation/ stimulation validation and distributed testing.											

UNCLASSIFIED

R-1 Line Item #112

Page 27 of 53

1644 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: February 2010			
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 Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #2 Continue systems engineering of foundation/data products, software validation/verification, network engineering, integration labs, information assurance.		2.197	1.225	4.702	0.000	4.702
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #3		2.033	1.036	4.148	0.000	4.148

UNCLASSIFIED

R-1 Line Item #112

Page 28 of 53

1645 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army			DATE: February 2010			
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 Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Maintained 250,000 square foot facility, with 41,305 sq. ft. dedicated to Army Integration Certification testing and systems engineering. Continue to provide infrastructure. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO						
Program #4 Continue management operations. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		2.525	1.558	2.599	0.000	2.599

UNCLASSIFIED

R-1 Line Item #112

Page 29 of 53

1646 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
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 Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #5 Continue configuration management. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		1.304	1.321	0.000	0.000	0.000
Program #6 Provide IT infrastructure networks connections to include DISN, SIPRNET, NIPRNET, GUARDNET. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		2.104	1.107	2.100	0.000	2.100

UNCLASSIFIED

R-1 Line Item #112

Page 30 of 53

1647 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
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 Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #7 Provide logistics support. FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		0.268	0.623	0.633	0.000	0.633
Program #8 Small Business Innovative Research/Small Business Technology Transfer FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		0.000	0.046	0.000	0.000	0.000

UNCLASSIFIED

R-1 Line Item #112

Page 31 of 53

1648 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010	
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>			
<u>B. Accomplishments/Planned Program (\$ in Millions)</u>					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Accomplishments/Planned Programs Subtotals	12.620	8.781	17.720	0.000	17.720
<u>C. Other Program Funding Summary (\$ in Millions)</u>					
N/A					
<u>D. Acquisition Strategy</u>					
<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.</p>					
<u>E. Performance Metrics</u>					
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

R-1 Line Item #112

Page 32 of 53

1649 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army										DATE: February 2010			
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 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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/MANTECH (Direct Labor)	C/CPFF	Fort Hood TX	23.990	0.000		0.000		0.000		0.000	Continuing	Continuing	0
CSC (System Engineering)	C/CPAF	Fort Hood TX/Fort Monmouth, NJ	6.670	0.000		0.000		0.000		0.000	Continuing	Continuing	0
MITRE Corp (System of System Integration & Validation)	C/CPFF	Fort Hood TX/Eatontown, NJ	6.010	1.727		1.755		0.000		1.755	Continuing	Continuing	0
CAMBER (Config Mgmt)	C/CPAF	Fort Hood TX	3.317	0.000		0.000		0.000		0.000	Continuing	Continuing	0
ILEX (Field Engineering)	C/CPAF	Fort Hood TX	2.157	0.000		0.000		0.000		0.000	Continuing	Continuing	0
ROBBINS- GIOIA (Data Base Management)	C/CPAF	Fort Hood TX/Fort Monmouth, NJ	1.715	0.000		0.000		0.000		0.000	Continuing	Continuing	0
CACI (JB Mgt)	C/CPAF	Fort Hood TX	0.000	2.026		2.058		0.000		2.058	Continuing	Continuing	0
Subtotal			43.859	3.753		3.813		0.000		3.813			0.000
Remarks													

UNCLASSIFIED

R-1 Line Item #112

Page 33 of 53

1650 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010			
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)						
Support (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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	C	Fort Hood TX/Fort Monmouth, NJ	0.290	0.939		0.954		0.000		0.954	Continuing	Continuing	0	
In-House Support	C	Fort Hood TX	1.198	0.990		1.006		0.000		1.006	Continuing	Continuing	0	
Other Government Support	C	Fort Hood TX	0.455	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Subtotal			1.943	1.929		1.960		0.000		1.960			0.000	
Remarks														
Test and Evaluation (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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	
ELECTRONIC PROVING GROUNDS (EPG)/ ManTech (Test & QM)	C/CPAF	Fort Hood TX	13.496	1.278		2.621		0.000		2.621	Continuing	Continuing	0	
CAMBER (Test/Config Mgmt/Operations)	C/CPAF	Fort Hood TX	2.624	2.760		2.804		0.000		2.804	Continuing	Continuing	0	
CSC/MANTECH (Direct Labor)	C/CPFF	Fort Hood TX	0.000	3.350		3.854		0.000		3.854	Continuing	Continuing	0	
CSC (System Engineering)	C/CPAF	Fort Hood	0.000	2.018		2.050		0.000		2.050	Continuing	Continuing	0	

UNCLASSIFIED

R-1 Line Item #112

Page 34 of 53

1651 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010		
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>					
Test and Evaluation (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
		TX/Fort Monmouth,NJ											
ILEX (Test/Config Mgmt)	C/CPAF	Fort Hood TX	0.000	0.608		0.618		0.000		0.618	Continuing	Continuing	0
Matrix Support	C	Fort Hood TX	0.000	1.085		0.000		0.000		0.000	Continuing	Continuing	0
Subtotal			16.120	11.099		11.947		0.000		11.947			0.000
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			61.922	16.781		17.720		0.000		17.720			0.000
Remarks													

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army																				DATE: February 2010			
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)			

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010	
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)		
Schedule Details				
	Start		End	
Event	Quarter	Year	Quarter	Year
Capability Set 11-12	4	2009	2	2013
Capability Set 13-14	4	2011	2	2015
--FBCB2 JCR 1.1	3	2009	2	2010
--FBCB2 JCR 1.2 (NOC Specific)	3	2010	2	2013
--FBCB2 JCR 1.3	2	2011	1	2012
--JBCP 1.0	2	2011	3	2012
--WINT-T Inc 1b	1	2010	3	2010
--WIN-T Inc 2	1	2011	2	2011
--WIN-T Inc 3	3	2012	1	2013
--WIN-T Inc 4	3	2013	1	2014

UNCLASSIFIED

R-1 Line Item #112

Page 37 of 53

1654 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army								DATE: February 2010			
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 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
C34: <i>ARMY TAC C2 SYS ENG</i>	11.214	28.678	12.220	0.000	12.220	12.161	11.266	18.343	16.904	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 (ATCCS) Engineering, which is also referred to as the Technical Management Division (TMD) (formerly Systems Engineering and Integration (SE&I)): Doctrine requires military leaders to make sound and timely command and control decisions to direct the activities of assigned and supporting units. The umbrella program to exploit automation technology in support of this mission is the ATCCS or TMD program. The effort to achieve horizontal integration of the ATCCS Battlefield Functional Areas (BFAs), although going on independently in each BFA, was not disciplined enough to address all connections and needs within the entire spectra of command, control and communications. Therefore, to ensure this horizontal integration effort is complete and fully automated, a significant management, systems engineering and integration effort is required. In FY 2011, this effort, supporting Army Battle Command Systems (ABCS), includes the development of new capability releases aligned with the TRADOC-defined Commander's Needs and Battle Command Essential Capabilities, and integration of lifecycle processes with the G3 LandWarNet Capability Set construct, engineering efforts towards the Unified Battle Command (UBC) and continuation of "System of Systems" System Engineering/Capability Set Development and Integration. Footnote: Decrement was applied against incorrect projects. The data base will be corrected in the next version.											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Program #1						0.729	0.720	0.760	0.000	0.760	
Continue Army Battle Command System (ABCS) Integrated Logistics Support											
<i>FY 2009 Accomplishments:</i> FY 2009											

UNCLASSIFIED

R-1 Line Item #112

Page 38 of 53

1655 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
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 Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #2 Continue ABCS Testing and Evaluation of all Battlefield Functional Area (BFA) fielded software and performs initial interoperability testing (FY10 includes TSIL)		0.764	3.750	0.760	0.000	0.760
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #3 Manages unit set fielding of ABCS		0.980	1.400	1.050	0.000	1.050

UNCLASSIFIED

R-1 Line Item #112

Page 39 of 53

1656 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
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 Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #4 Continue ABCS information engineering		1.153	1.300	1.000	0.000	1.000
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #5		0.325	2.030	0.340	0.000	0.340

UNCLASSIFIED

R-1 Line Item #112

Page 40 of 53

1657 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
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 Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Conduct and support system interoperability engineering (FY10 includes TSIL)						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #6		1.512	3.000	2.000	0.000	2.000
Continue exploring state of the art technology insertion in support of the ABCS program and Army Networks (FY10 includes VICTORY)						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						

UNCLASSIFIED

R-1 Line Item #112

Page 41 of 53

1658 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
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 Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #7 Continue development and implementation of the ABCS information assurance FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		0.298	0.500	0.320	0.000	0.320
Program #8 Continue System of Systems Development (FY11 includes UBC) FY 2009 Accomplishments: FY 2009 FY 2010 Plans: FY 2010 FY 2011 Base Plans: FY 2011 Base FY 2011 OCO Plans: FY 2011 OCO		2.613	2.983	3.000	0.000	3.000

UNCLASSIFIED

R-1 Line Item #112

Page 42 of 53

1659 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
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 Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #9		2.840	0.000	0.000	0.000	0.000
Continue ABCS System Engineering						
FY 2009 Accomplishments:						
FY 2009						
FY 2010 Plans:						
FY 2010						
FY 2011 Base Plans:						
FY 2011 Base						
FY 2011 OCO Plans:						
FY 2011 OCO						
Program #10		0.000	5.277	2.990	0.000	2.990
System of Systems Engineering and Integration evolution of the network						
FY 2009 Accomplishments:						
FY 2009						
FY 2010 Plans:						
FY 2010						
FY 2011 Base Plans:						
FY 2011 Base						
FY 2011 OCO Plans:						
FY 2011 OCO						

UNCLASSIFIED

R-1 Line Item #112

Page 43 of 53

1660 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010		
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 Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #11		0.000	6.559	0.000	0.000	0.000
Initiate Wireless Network after Next (WNaN)Technology Experimentation						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						
Program #12		0.000	1.159	0.000	0.000	0.000
Small Business Innovative Research/Small Business Technology Transfer Programs						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						

UNCLASSIFIED

R-1 Line Item #112

Page 44 of 53

1661 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010				
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>						
<u>B. Accomplishments/Planned Program (\$ in Millions)</u>								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Accomplishments/Planned Programs Subtotals				11.214	28.678	12.220	0.000	12.220
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A								
<u>D. Acquisition Strategy</u> 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). Fiscal Year 2011 will focus on "Systems of Systems" System Engineering and Integration for evolution of the network (Warfighter Information Network-Tactical (WIN-T) and Joint Tactical Radio Systems (JTRS)) and associated services (Unified Battle Command (UBC), Joint Battle Command - Platform (JBC-P), Network Service Center (NSC) with increased emphasis on immediate Warfighter needs as well as leveraging emerging technologies, through the G3 LandWarNet Capability Set Development and Integration.								
<u>E. Performance Metrics</u> 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

R-1 Line Item #112

Page 45 of 53

1662 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010			
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				
Product Development (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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	
Northrop Grumman	C/CPIF	Fort Monmouth NJ/Fort Hood, TX	14.548	0.000		0.000		0.000		0.000	Continuing	Continuing	17.162	
TBD	C/TBD	Aberdeen Proving Grounds MD/Fort Monmouth, NJ/Fort Hood, TX	0.000	3.102		1.938		0.000		1.938	Continuing	Continuing	0	
IDA	C	Fort Monmouth NJ	1.724	0.000		0.000		0.000		0.000	Continuing	Continuing	1.724	
CSC	C/CPAF	Fort Monmouth NJ/Fort Hood, TX	42.372	0.000		0.000		0.000		0.000	Continuing	Continuing	45.385	
TBD - 2	C/TBD	Aberdeen Proving Grounds MD/Fort Monmouth, NJ/Fort Hood, TX	0.000	6.257		4.012		0.000		4.012	Continuing	Continuing	0	
MANTECH (Direct Labor)	C/CPFF	Fort Monmouth NJ/Fort Hood, TX	6.496	0.000		0.000		0.000		0.000	Continuing	Continuing	6.546	
SYTEX	C/CPFF	Eatontown NJ	0.330	0.000		0.000		0.000		0.000	Continuing	Continuing	1.020	
TBD - 3	C/TBD	Aberdeen Proving Grounds MD/Fort Monmouth, NJ/Fort Hood, TX	0.000	0.970		0.529		0.000		0.529	Continuing	Continuing	0	
CAMBER (Config Mgt/)	C/CPAF	Fort Hood TX	1.788	0.000		0.000		0.000		0.000	Continuing	Continuing	.855	

UNCLASSIFIED

R-1 Line Item #112

Page 46 of 53

1663 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010			
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				
Product Development (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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	
ATSC	C	Fort Leavenworth KY	1.850	0.000		0.000		0.000		0.000	Continuing	Continuing	1.850	
LOCKHEED MARTIN	C/CPAF	Eatontown NJ	6.674	0.000		0.000		0.000		0.000	Continuing	Continuing	7.896	
TBD - 4	C/CPAF	Aberdeen Proving Grounds MD/Fort Monmouth, NJ	0.000	3.500		0.000		0.000		0.000	Continuing	Continuing	0	
GTE (Labor and Equipment)	C/CPFF	Fort Hood TX	2.281	0.000		0.000		0.000		0.000	Continuing	Continuing	2.281	
Misc Contracts	C/CPAF	Fort Monmouth NJ/Fort Hood, TX	5.985	0.000		0.000		0.000		0.000	Continuing	Continuing	6.181	
Unixpros	C/CPAF	Eatontown NJ	3.711	0.000		0.000		0.000		0.000	Continuing	Continuing	3.711	
ROBBINS-GIOIA	C/CPAF	Fort Monmouth NJ/Fort Hood, TX	9.642	0.179		0.000		0.000		0.000	Continuing	Continuing	9.967	
MITRE	C/CPFF	Aberdeen Proving Grounds MD/Ft Monmouth, NJ/Eatontown, NJ	49.976	5.185		4.441		0.000		4.441	Continuing	Continuing	0	
ITT	C/CPAF	Eatontown NJ	1.070	0.000		0.000		0.000		0.000	Continuing	Continuing	1.070	
MISCELLANEOUS SUPPORT	C/CPAF	Eatontown NJ/Fort Hood, TX	2.551	0.000		0.000		0.000		0.000	Continuing	Continuing	2.851	
BOOZ-ALLEN	C/CPAF	Eatontown NJ	1.950	0.000		0.000		0.000		0.000	Continuing	Continuing	1.950	

UNCLASSIFIED

R-1 Line Item #112

Page 47 of 53

1664 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010		
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>					
Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			152.948	19.193		10.920		0.000		10.920			110.449
Remarks													
Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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	C	Aberdeen Proving Grounds MD/Fort Monmouth, NJ/Fort Hood, TX	8.060	2.300		0.500		0.000		0.500	Continuing	Continuing	0
CECOM MATRIX	C	Fort Monmouth NJ/Fort Hood, TX	7.880	0.985		0.650		0.000		0.650	Continuing	Continuing	0
OTHER GOVERNMENT SUPPORT	C	Fort Monmouth NJ/Fort Hood, TX/ Fort Belvoir, VA	3.887	3.500		0.150		0.000		0.150	Continuing	Continuing	0
Subtotal			19.827	6.785		1.300		0.000		1.300			0.000
Remarks													

UNCLASSIFIED

R-1 Line Item #112

Page 48 of 53

1665 of 1922

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Army											DATE: February 2010																																																																	
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>																																																																				
Test and Evaluation (\$ in Millions) <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Cost Category Item</th> <th rowspan="2">Contract Method & Type</th> <th rowspan="2">Performing Activity & Location</th> <th rowspan="2">Total Prior Years Cost</th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th rowspan="2">Cost To Complete</th> <th rowspan="2">Total Cost</th> <th rowspan="2">Target Value of Contract</th> </tr> <tr> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>EPG</td> <td>C</td> <td>Fort Huachuca AZ</td> <td align="right">2.881</td> <td align="right">0.200</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td>Continuing</td> <td>Continuing</td> <td align="right">0</td> </tr> <tr> <td>TBD</td> <td>C/TBD</td> <td>Aberdee Proving Grounds MD/Fort Monmouth, NJ</td> <td align="right">0.000</td> <td align="right">2.500</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td>Continuing</td> <td>Continuing</td> <td align="right">0</td> </tr> <tr> <td align="right" colspan="3">Subtotal</td> <td align="right">2.881</td> <td align="right">2.700</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td></td> <td align="right">0.000</td> </tr> </tbody> </table>														Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	EPG	C	Fort Huachuca AZ	2.881	0.200		0.000		0.000		0.000	Continuing	Continuing	0	TBD	C/TBD	Aberdee Proving Grounds MD/Fort Monmouth, NJ	0.000	2.500		0.000		0.000		0.000	Continuing	Continuing	0	Subtotal			2.881	2.700		0.000		0.000		0.000			0.000
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																															
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost																																																																		
EPG	C	Fort Huachuca AZ	2.881	0.200		0.000		0.000		0.000	Continuing	Continuing	0																																																															
TBD	C/TBD	Aberdee Proving Grounds MD/Fort Monmouth, NJ	0.000	2.500		0.000		0.000		0.000	Continuing	Continuing	0																																																															
Subtotal			2.881	2.700		0.000		0.000		0.000			0.000																																																															
Remarks																																																																												
<table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th></th> <th>Total Prior Years Cost</th> <th>FY 2010</th> <th>FY 2011 Base</th> <th>FY 2011 OCO</th> <th>FY 2011 Total</th> <th>Cost To Complete</th> <th>Total Cost</th> <th>Target Value of Contract</th> </tr> </thead> <tbody> <tr> <td align="right">Project Cost Totals</td> <td align="right">175.656</td> <td align="right">28.678</td> <td align="right">12.220</td> <td align="right">0.000</td> <td align="right">12.220</td> <td></td> <td></td> <td align="right">110.449</td> </tr> </tbody> </table>															Total Prior Years Cost	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	Project Cost Totals	175.656	28.678	12.220	0.000	12.220			110.449																																													
	Total Prior Years Cost	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																																				
Project Cost Totals	175.656	28.678	12.220	0.000	12.220			110.449																																																																				
Remarks																																																																												

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army																								DATE: February 2010			
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>			

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010		
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	
Schedule Details					
		Start		End	
Event		Quarter	Year	Quarter	Year
Tactical Systems Integration Lab		4	2009	3	2015
Initiate Wireless Network After Next (WNaN) Technology Experimentation		4	2009	1	2011

UNCLASSIFIED

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army								DATE: February 2010			
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>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
JN1: <i>JOINT NETWORK NODE (JNN) TESTING</i>	0.000	12.726	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification As the emerging major component of the Army Bridge to Future Networks, Warfighter Information Network - Tactical (WIN-T) Increment 1, formally 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 10: Funding will be used for Operational Test of the 1b technical insertion to Increment 1a for Operational Test that will be conducted 1st quarter FY 11 in conjunction with Inc 2 Initial Operational Test and Evaluation (IOT&E).											
B. Accomplishments/Planned Program (\$ in Millions)											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1							0.000	12.726	0.000	0.000	0.000
Operational Testing Event											
<i>FY 2009 Accomplishments:</i>											
FY 2009											
<i>FY 2010 Plans:</i>											
FY 2010											
<i>FY 2011 Base Plans:</i>											
FY 2011 Base											

UNCLASSIFIED

R-1 Line Item #112

Page 52 of 53

1669 of 1922

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2011 Army				DATE: February 2010	
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>			
<u>B. Accomplishments/Planned Program (\$ in Millions)</u>					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<i>FY 2011 OCO Plans:</i> FY 2011 OCO					
Accomplishments/Planned Programs Subtotals	0.000	12.726	0.000	0.000	0.000
<u>C. Other Program Funding Summary (\$ in Millions)</u>					
N/A					
<u>D. Acquisition Strategy</u>					
N/A					
<u>E. Performance Metrics</u>					
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