

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2008

BUDGET ACTIVITY		PE NUMBER AND TITLE							
5 - System Development and Demonstration		0604818A - Army Tactical Command & Control Hardware & Software							
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	67619	100132	67535	57163	39814	50231	58571	Continuing	Continuing
323 COMMON HARDWARE SYSTEMS	6539	6964	7292	7472	7771	7946	7950	Continuing	Continuing
334 COMMON SOFTWARE	11437	20977	23828	12275	12532	19956	20416	Continuing	Continuing
C15 MOUNTED BATTLE COMMAND ON-THE-MOVE (MBCOTM)	7779	21879	11828	8324	993				50803
C29 CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)	9921	20357	13011	9680	8589	8553	8745	Continuing	Continuing
C34 ARMY TAC C2 SYS ENG	13865	13586	11576	19412	9929	13776	21460	Continuing	Continuing
C39 Tactical Operations Centers (TOCs)									15651
C3A ARMY AIRBORNE COMMAND & CONTROL SYS (A2C2S)	9878								24626
JN1 JOINT NETWORK NODE (JNN) TESTING	8200	16369							24569

**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, more commonly known as 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. This program element also includes the Central Technical Support Facility (CTSF) which provides a single technical "center of mass" for software checkout and physical system integration. The Common Hardware and Software projects provide common products to customers to meet their developmental and fielding needs. The Tactical Operations Centers (TOCs) project designs and develops the TOCs that form the structural backbone of the Army's digitized fielding concept. Starting in FY04 this program includes funding for the SICPS program which was previously funded in project C12 in FY03. The Army Airborne Command & Control (A2C2S) provides the avionics system required to horizontally and vertically integrate the battlefield. These systems support the Legacy to Objective transition path.

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2008

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604818A - Army Tactical Command & Control Hardware & Software**

<u><b>B. Program Change Summary</b></u>	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2008/2009)	59901	99202	65082
Current BES/President's Budget (FY 2009)	67619	100132	67535
Total Adjustments	7718	930	2453
Congressional Program Reductions		-750	
Congressional Rescissions			
Congressional Increases		1680	
Reprogrammings	9341		
SBIR/STTR Transfer	-1623		
Adjustments to Budget Years			2453

Change Summary Explanation: Funding - FY 2007: \$8.2 million reprogrammed into this PE to support testing the Joint Network Node.

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**February 2008**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>	<b>PE NUMBER AND TITLE</b> <b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>						<b>PROJECT</b> <b>323</b>		
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
323 COMMON HARDWARE SYSTEMS	6539	6964	7292	7472	7771	7946	7950	Continuing	Continuing

**A. Mission Description and Budget Item Justification:** CHS provides state of the art, fully qualified, interoperable, compatible, deployable and survivable hardware and COTS software for Command, Control and Communications at all echelons of command for the United States Army and other DoD services with worldwide repair, maintenance and logistics support through contractor-operated CHS Repair Centers and management of a comprehensive warranty program. In FY08-FY09, CHS continues to manage the acquisition and delivery of CHS equipment, Technology Insertion and Common Standardized Testing in support of customer requirements.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Continue management of the acquisition and delivery of CHS equipment in support of customer requirements	5803	5921	6417
Continue supporting customers testing efforts with CHS equipment	300	154	300
Continue CHS technology insertion	436	694	575
Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)		195	
<b>Total</b>	<b>6539</b>	<b>6964</b>	<b>7292</b>

**B. Other Program Funding Summary** Not applicable for this item.

**C. 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 non-developmental items, standardized protocols and reusable commercial common software. This project provides a coherent migration strategy for Army Battle Command Systems and other 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 Battlefield Functional Areas. An Indefinite Delivery/Indefinite Quantity firm fixed priced, full and open competition contract was awarded to GDC4S in May 2003, for ruggedization and production.

# ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY			PE NUMBER AND TITLE								PROJECT	
<b>5 - System Development and Demonstration</b>			<b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>								<b>323</b>	
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
GDC4S/CHS-3 Non-Recurring Engineering	C/FFP/IDIQ	Taunton, MA	12000							12000	Cont.	
Technology Insertion	Various	Various	12685	436	1-3Q	694	1-3Q	575	1-3Q	Cont.	Cont.	
Product Development	Various	Fort Monmouth, NJ	66915	2457	1-3Q		1-3Q	2820	1-3Q	Cont.	Cont.	
Support Costs	MIPR	Fort Monmouth, NJ/Huntsville, AL	54547	3346	1-3Q	5921	1-3Q	3597	1-3Q	Cont.	Cont.	
SBIR/STTR					1Q	195	1Q					195
Subtotal:			146147	6239		6810		6992		Cont.	Cont.	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Not applicable												
Subtotal:												
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
CHS Test Activities	MIPR	Other Government Activities	1500	300	3Q	154	1-3Q	300	1-3Q	Cont.	Cont.	
Subtotal:			1500	300		154		300		Cont.	Cont.	

# ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>			PE NUMBER AND TITLE <b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>							PROJECT <b>323</b>		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:												
<b>Project Total Cost:</b>			<b>147647</b>	<b>6539</b>		<b>6964</b>		<b>7292</b>		<b>Cont.</b>	<b>Cont.</b>	

# Schedule Profile (R4 Exhibit)

February 2008

**BUDGET ACTIVITY**  
**5 - System Development and Demonstration**

**PE NUMBER AND TITLE**  
**0604818A - Army Tactical Command & Control Hardware & Software**

**PROJECT**  
**323**

Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
Technology Insertion	[Redacted]																											
CHS-2 Warranty Ends for H/W Procured Option Yrs 6-10	[Redacted]																											
CHS-2 Warranty Extension	[Redacted]																											
CHS-3 V1/V1+ Hardware Deliveries	[Redacted]																											
CHS-3 V2/V3 Hardware Deliveries	[Redacted]																											
GB-GRAM Consolidated Ordering Through CHS	[Redacted]																											
TSR-2 and TSR-3 Ongoing Contract Management	[Redacted]																											
Common Standard First Article Testing	[Redacted]																											
OIF Support	[Redacted]																											
RESET and Deep Cleaning	[Redacted]																											
Out of Warranty Repair	[Redacted]																											
IPv6 Implementation and Integration	[Redacted]																											
UID Labeling	[Redacted]																											



**Schedule Detail (R4a Exhibit)**

**February 2008**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>	<b>PE NUMBER AND TITLE</b> <b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>	<b>PROJECT</b> <b>323</b>
---	---	------------------------------

<u>Schedule Detail</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
Technology Insertion	1Q - 4Q	1Q - 3Q					
CHS-2 Warranty Ends for H/W Procured Option Yrs 6-10	1Q - 4Q	1Q - 2Q					
CHS-2 Warranty Extension	3Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 3Q		
CHS-3 V1/V1+ Hardware Deliveries	1Q - 4Q	1Q - 3Q					
CHS-3 V2/V3 Hardware Deliveries	1Q - 4Q	1Q - 3Q					
GB-GRAM Consolidated Ordering Through CHS	1Q - 4Q						
TSR-2 and TSR-3 Ongoing Contract Management	1Q - 4Q	1Q - 2Q					
Common Standard First Article Testing	1Q - 4Q						
OIF Support	1Q - 4Q						
RESET and Deep Cleaning	1Q - 4Q						
Out of Warranty Repair	1Q - 4Q						
New R4 Event							
Out of Warranty Repair	1Q - 4Q						
IPv6 Implementation and Integration	1Q - 4Q						
UID Labeling	1Q - 4Q						

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**February 2008**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>	<b>PE NUMBER AND TITLE</b> <b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>						<b>PROJECT</b> <b>334</b>		
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
334 COMMON SOFTWARE	11437	20977	23828	12275	12532	19956	20416	Continuing	Continuing

**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 program is a cornerstone in the Army's digitization efforts.

FY09 funding will continue the development, acquisition management, and delivery of CS products in support of Army and Joint Service customer 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><u>Accomplishments/Planned Program:</u></b>	<b><u>FY 2007</u></b>	<b><u>FY 2008</u></b>	<b><u>FY 2009</u></b>
Continue the development, acquisition management and delivery of Common Software (CS) products in support of Army and Joint Services customer requirements.	9377	12791	15440
Serve as the executive agent and provide software for interoperability, for Joint and Coalition efforts.	2060	3375	3861
Develop the System of System (SOS) architecture for Battle Command (BC) systems.		4270	4527
Small Business Innovative Research/Small Business Technology Transfer Programs		541	
<b>Total</b>	<b>11437</b>	<b>20977</b>	<b>23828</b>

<b><u>B. Other Program Funding Summary</u></b>	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
Not applicable for Common Software Program									

Comment:

**C. Acquisition Strategy** Competitively award time and material contracts to support efforts for development, integration, maintenance and test of Common Software products and services. The overall goal 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.

# ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
<b>5 - System Development and Demonstration</b>			<b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>							<b>334</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Matrix Support of CS Lab, Data Access	MIPR	CECOM, Fort Monmouth, NJ	1853								1853	
Engineering/Software Development	C, T&M	Various Contractors / Various Locations	53711	8470	1-4Q	11604	1-4Q	14437	1-4Q	Cont.	Cont.	
ABCS System Engineering & Integration	MIPR	PEO C3T, Fort Monmouth, NJ	210								210	
ABCS/Army System Engineering & Integration	C, T&M	Various Contractors / Various Locations		118	2Q	1330	1-4Q	1410	1-4Q	Cont.	Cont.	
Battle Command Chief Architect Support						4270	1-4Q	4527	1-4Q	Cont.	Cont.	
Digital System Engineers	C, T&M	Mantech, Ft. Hood, TX	14400								14400	
3D Display Technology	OTA	Concurrent Technology Corp., Johnstown, PA	9083								9083	
IDM-T Engineering Support	MIPR	GSA Contractors	2000								2000	
DISA Support for COE	MIPR		1486								1486	
Small Business Innovative Research/Small Business Technology Transfer Programs						541	2Q				541	
Subtotal:			82743	8588		17745		20374		Cont.	Cont.	
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program Support	In-house	PM Battle Command, Ft. Monmouth, NJ	2434	866	1-3Q	904	1-3Q	955	1-3Q	Cont.	Cont.	
Technical Support	C, T&M	ESP, Oceanport, NJ	835	179	1-2Q	194	2Q	209	2Q	Cont.	Cont.	

# ARMY RDT&E COST ANALYSIS (R3)

**February 2008**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>	<b>PE NUMBER AND TITLE</b> <b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>							<b>PROJECT</b> <b>334</b>		
Subtotal:	3269	1045		1098		1164		Cont.	Cont.	

III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test	C, T&M	Various Contractors/Various locations		1033	2-3Q	1324	1-3Q	1440	1-3Q	Cont.	Cont.	
Subtotal:				1033		1324		1440		Cont.	Cont.	

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program Office Management	In-House	Fort Monmouth, NJ	3822	771	1-4Q	810	1-4Q	850	1-4Q	Cont.	Cont.	
Subtotal:			3822	771		810		850		Cont.	Cont.	

<b>Project Total Cost:</b>	<b>89834</b>	<b>11437</b>		<b>20977</b>		<b>23828</b>		<b>Cont.</b>	<b>Cont.</b>	
----------------------------	--------------	--------------	--	--------------	--	--------------	--	--------------	--------------	--

# Schedule Profile (R4 Exhibit)

February 2008

**BUDGET ACTIVITY**  
**5 - System Development and Demonstration**

**PE NUMBER AND TITLE**  
**0604818A - Army Tactical Command & Control Hardware & Software**

**PROJECT**  
**334**

Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
Software Block 9-11 Initial thru Final Delivery																												
Software Block 10-12 Initial thru Final delivery																												
Software Block 11-13 Initial thru Final delivery																												
Software Block 12-14 Initial thru Final delivery																												
Software Block 13-15 Initial thru Final delivery																												
Software Block 14-16 Initial thru Final delivery																												
Software Block 15-17 Initial thru Final delivery																												



**Schedule Detail (R4a Exhibit)**

**February 2008**

**BUDGET ACTIVITY**  
**5 - System Development and Demonstration**

**PE NUMBER AND TITLE**  
**0604818A - Army Tactical Command & Control Hardware & Software**

**PROJECT**  
**334**

<u>Schedule Detail</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
Software Block 9-11 Initial thru Final Delivery	2Q - 4Q						
Software Block 10-12 Initial thru Final delivery		2Q - 4Q					
Software Block 11-13 Initial thru Final delivery			3Q - 4Q	1Q			
Software Block 12-14 Initial thru Final delivery				2Q - 4Q			
Software Block 13-15 Initial thru Final delivery					2Q - 4Q		
Software Block 14-16 Initial thru Final delivery						2Q - 4Q	
Software Block 15-17 Initial thru Final delivery							2Q - 4Q

Note: Scheduled deliveries are based on Software Blocking timelines.

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**February 2008**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>		<b>PE NUMBER AND TITLE</b> <b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>						<b>PROJECT</b> <b>C15</b>	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
C15 MOUNTED BATTLE COMMAND ON-THE-MOVE (MBCOTM)	7779	21879	11828	8324	993				50803

**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 Light Tactical Vehicle (A-Kit) platforms which allows brigade and above 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 battle command 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 fixed command posts. MBCOTM provides battle command enablers to support war (i.e., deterring aggression and coercion; fighting conflicts) and operations other than war (i.e., peacekeeping, domestic disaster relief, reducing potential conflicts, promoting regional stability, humanitarian missions and homeland security). MBCOTM supports the mission area of Command and Control. Future capabilities will include adding Joint Tactical Radio System and Wideband Gapfiller System. Future improvements will include addition of Secure Wireless Local Area Network, Land Warrior, and Unmanned Aerial Vehicle feed, as well as the integration of Multiple Frequencies Time Division Multiple Access (MF-TDMA) technology which allows large numbers of MBCOTMs to populate the battlefield and provide OTM communications services and range extension on the battlefield. In FY09, MBCOTM will go through an IOT&E test event.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
System Development/Tech Upgrades	1895	5659	7660
Prototype Build	2153	2164	2890
Program Spt/SSEB	1200	1153	
Test/Evaluation	2531	12290	1278
Small Business Innovative Research/Small Business Technology Transfer Programs.		613	
<b>Total</b>	<b>7779</b>	<b>21879</b>	<b>11828</b>

<u>B. Other Program Funding Summary</u>	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
Mounted Battle Command on the Move MBCOTM (BZ9970)	69599	41716	25869	22094	74929	16097	42365	Continuing	Continuing

Comment:

**ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)****February 2008**

BUDGET ACTIVITY

**5 - System Development and Demonstration**

PE NUMBER AND TITLE

**0604818A - Army Tactical Command & Control Hardware & Software**

PROJECT

**C15**

**C. Acquisition Strategy** Mounted Battle Command on the Move (MBCOTM) will be integrated on three vehicle platforms: Light Tactical Vehicle (LTV), Bradley Command Vehicle, and the Stryker Command Vehicle. Upgrades will include Precision Lightweight GPS Receiving System to Defense Advanced GPS Receiver System and Ku Antenna. The Government is developing technology demonstrators of the Common Army-Marine Command and Control Vehicle (CAMC2 B-Kit) which will be designed to be a transit case solution (Mission Equipment Package/B Kit) to be integrated on a LTV. This was a cooperative variant developed with the Army and Marine Corps to gather information for writing the product specification, as well as to gain better insight on the B-Kit design. This competitive Request for Proposal (RFP) for the Production phase for the B-Kit for Bradley, Stryker and LTV was released during 3QFY07. Award of this contract is scheduled for 2QFY08. Major testing requirements such as Development Test and Initial Operational Test & Evaluation will be funded with FY08 dollars. Development will continue with Bradley and Stryker vehicle A-Kit design, prototype manufacturing and testing during the reporting period.

# ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
<b>5 - System Development and Demonstration</b>			<b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>							<b>C15</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
System Development/Prototype build	T&M	TBD	5198	4048	3Q	7823	1-2Q	10550	1-2Q	Cont.	Cont.	
Subtotal:			5198	4048		7823		10550		Cont.	Cont.	
II. Support Costs			Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Engineering Services/ICS/Log Development					3Q		1-2Q		1-2Q			
Subtotal:												
III. Test And Evaluation			Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Operational Assessments/IOT&E	MIPR	Army Test and Evaluation Center	1168	2531	3Q	12290	1-2Q	1278	1-2Q	Cont.	Cont.	
Subtotal:			1168	2531		12290		1278		Cont.	Cont.	
IV. Management Services			Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program Management				1200	1-2Q	1153	1-2Q				2353	
SBIR/STTR					1-2Q	613	1-2Q				613	

# ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>	PE NUMBER AND TITLE <b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>							PROJECT <b>C15</b>	
Subtotal:		1200		1766				2966	

<b>Project Total Cost:</b>	<b>6366</b>	<b>7779</b>		<b>21879</b>		<b>11828</b>		<b>Cont.</b>	<b>Cont.</b>
----------------------------	-------------	-------------	--	--------------	--	--------------	--	--------------	--------------

# Schedule Profile (R4 Exhibit)

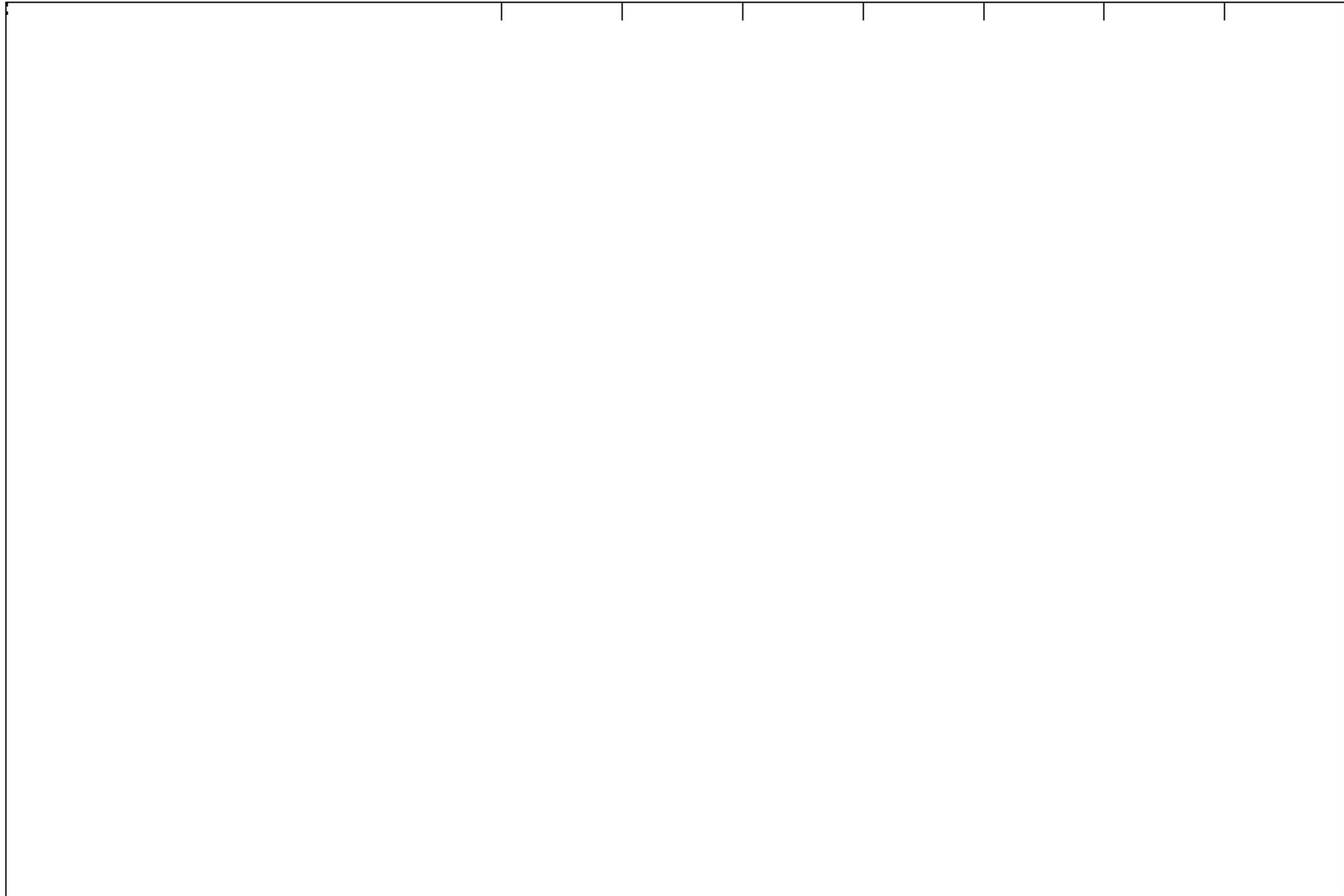
February 2008

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604818A - Army Tactical Command & Control Hardware & Software**

PROJECT  
**C15**

Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
ARP / RFP	[Redacted]				ARP / RFP																							
(1) MS C LRIP					▲ MS C LRIP																							
SSEB					[Redacted]																							
CONTRACT AWARD					[Redacted]				CONTRACT AWARD																			
(2) PRELIMINARY DESIGN REVIEW					▲ PRELIMINARY DESIGN REVIEW																							
(3) CRITICAL DESIGN REVIEW					▲ CRITICAL DESIGN REVIEW																							
(4) PRODUCTION VERIFICATION TEST					▲ PRODUCTION VERIFICATION TEST																							
(5) IOT&E (BRADLEY/STRYKER)									▲ IOT&E (BRADLEY/STRYKER)																			
(6) MS C FRP (BRADLEY/STRYKER)									▲ MS C FRP (BRADLEY/STRYKER)																			
PROD & DEPLOY (BRADLEY/STRYKER )													[Redacted]				PROD & DEPLOY (BRADLEY/STRYKER )											



**Schedule Detail (R4a Exhibit)**

**February 2008**

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604818A - Army Tactical Command & Control Hardware & Software**

PROJECT  
**C15**

<u>Schedule Detail</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
ARP / RFP	1Q - 3Q						
MS C LRIP	3Q						
SSEB	3Q - 4Q	1Q - 2Q					
CONTRACT AWARD		1Q - 2Q					
PRELIMINARY DESIGN REVIEW		2Q					
CRITICAL DESIGN REVIEW		2Q					
PRODUCTION VERIFICATION TEST		2Q - 4Q	1Q - 2Q				
IOT&E (BRADLEY/STRYKER)			3Q				
MS C FRP (BRADLEY/STRYKER)			3Q				
PROD & DEPLOY (BRADLEY/STRYKER )			3Q - 4Q	1Q - 4Q	1Q		
MS B							

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**February 2008**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>	<b>PE NUMBER AND TITLE</b> <b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>						<b>PROJECT</b> <b>C29</b>		
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
C29 CENTRALIZED TECHNICAL SUPPORT FACILITY (CTSF)	9921	20357	13011	9680	8589	8553	8745	Continuing	Continuing

**A. Mission Description and Budget Item Justification:** Project DC29 - Centralized Technical Support Facility: The Central Technical Support Facility (CTSF) is located in Fort Hood, Texas. The CTSF provides a centralized on-the-ground capability to ensure interoperability among various digitized platforms and serves as the final integration and maturation facility for Common Operating Environment (COE). The CTSF is the Warfighters "Edge" that acts as an enabler for rapid integration of dissimilar software and hardware systems through real time, on-site integration of soldiers, contractors, testers, Program Managers and the requirements community. Also the CTSF provides a single technical "center of mass" for software checkout and system integration and provides a controlled environment with connectivity to other C4I systems either on-site or through the Army Interoperability Network (AIN) to support digital integration and fielding. This effort supports the Current to Future transition path.

<b><u>Accomplishments/Planned Program:</u></b>	<b><u>FY 2007</u></b>	<b><u>FY 2008</u></b>	<b><u>FY 2009</u></b>
Continue test planning/procedures/execution/reporting	1814	5009	2000
Continue software engineering.	1597	100	400
Provide infrastructure (Facilities, upgrades, additions).	1236	1640	2790
Continue Digital System Engineering	1120	4935	3425
Continue management operations.	1403	6217	3241
Provide equipment for instrumentation, simulation/stimulation, software evaluation and development tools.	777		
Continue configuration management.	709	750	500
Provide networks connections to include DISN, SIPRNET, NIPRNET, GUARDNET.	270	500	500
Provide logistics support.	200	150	155
Provide DA Mandated Intra-Army Digital Certification test and validation.	795	500	
Small Business Innovative Research/Small Business Technology Transfer		556	
<b>Total</b>	<b>9921</b>	<b>20357</b>	<b>13011</b>

**B. Other Program Funding Summary** Not applicable for this item.

**C. Acquisition Strategy** This project provides the technical and programmatic disciplines required for systems engineering and integration, experimentation, acquisition

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2008

BUDGET ACTIVITY

**5 - System Development and Demonstration**

PE NUMBER AND TITLE

**0604818A - Army Tactical Command & Control Hardware & Software**

PROJECT

**C29**

management, testing, software development, interoperability, fielding and sustainment to ensure an interoperable and affordable ATCCS. The Program Executive Officer for Command, Control, Communications, Tactical (PEO C3T) has planned an evolutionary approach to fielding ATCCS as soon as possible.

# ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY			PE NUMBER AND TITLE								PROJECT	
<b>5 - System Development and Demonstration</b>			<b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>								<b>C29</b>	
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
CSC (MANTECH -Direct Labor)	C/CPFF	Fort Hood, TX	15056	1183	1Q	6582	1-2Q	5031	1-2Q	Cont.	Cont.	Cont.
COMPUTER SCIENCE CORP (System Engineering)	C/CPAF	Fort Hood, TX/Fort Monmouth, NJ	4571	1086	1Q	3000	1-2Q	1500	1-2Q	Cont.	Cont.	Cont.
MITRE Corp (System Engineering)	C/CPFF	Fort Hood, TX/Eatontown, NJ	4141	948	1Q	1925	1-2Q	1925	1-2Q	Cont.	Cont.	Cont.
CAMBER (Config Mgt/)	C/CPAF	Fort Hood, TX	2301	515	1Q	750	1-2Q	500	1-2Q	Cont.	Cont.	Cont.
Northrop Grumman (Field Engineering)	C/CPIF	Fort Hood, TX	3808	868	1Q					Cont.	4676	Cont.
NICHOLS (Logistics Support)	C/CPAF	Fort Hood, TX	2970	678	1Q					Cont.	3648	Cont.
ILEX (Field Engineering)	C/CPAF	Fort Hood, TX	1488	339	1Q					Cont.	1827	Cont.
ROBBINS- GIOIA (Data Base Management)	C/CPAF	Fort Hood, TX/Fort Monmouth, NJ	1183	270	1Q	500	1-2Q	500	1-2Q	Cont.	Cont.	Cont.
GTE	C/CPFF	Fort Hood, TX	914	209	1Q					Cont.	Cont.	Cont.
EWA	C/CPAF	Fort Hood, TX	551	125	1Q					Cont.	676	Cont.
Subtotal:			36983	6221		12757		9456		Cont.	Cont.	Cont.
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
CECOM Matrix	MIPRs	Fort Hood, TX/Fort Monmouth, NJ	145	145	1-2Q	150	1-2Q	155	1-2Q	Cont.	Cont.	Cont.
In-House Support	MIPRs	Fort Hood, TX	565	500	1-2Q	500	1-2Q	500	1-2Q	Cont.	Cont.	Cont.
Other Government Support	MIPRs	Fort Hood, TX	184	225	1-2Q	1000	1-2Q	400	1-2Q	Cont.	Cont.	Cont.
Subtotal:			894	870		1650		1055		Cont.	Cont.	Cont.

# ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604818A - Army Tactical Command & Control Hardware & Software**

PROJECT  
**C29**

III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
ELECTRONIC PROVING GROUNDS (EPG)	MIPR		9121	2082	1-2Q	5200	1-2Q	2000		Cont.	Cont.	Cont.
CAMBER (Testing)	CPAF	Fort Hood, TX	1747	480	1-2Q	750	1-2Q	500		Cont.	Cont.	Cont.
Subtotal:			10868	2562		5950		2500		Cont.	Cont.	Cont.

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
SBIR / SBTT				268	1-2Q						268	
Subtotal:				268							268	

<b>Project Total Cost:</b>	<b>48745</b>	<b>9921</b>		<b>20357</b>		<b>13011</b>		<b>Cont.</b>	<b>Cont.</b>	<b>Cont.</b>
----------------------------	--------------	-------------	--	--------------	--	--------------	--	--------------	--------------	--------------

**Schedule Profile (R4 Exhibit)**

**February 2008**

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604818A - Army Tactical Command & Control Hardware & Software**

PROJECT  
**C29**

Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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



**Schedule Detail (R4a Exhibit)**

**February 2008**

BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>		PE NUMBER AND TITLE <b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>					PROJECT <b>C29</b>	
<u>Schedule Detail</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	
Army Battle Command System (ABCS) 6.3 Test/Fixes/Integration								
ABCS 6.4 System of System (SoS) Integration								
Operation Iraqi Freedom (OIF)	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	
ABCS 6.4 Test Window								
Operation Enduring Freedom (OEF)	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	
I Corps Warfighter								
Prairie Warrior 05								
III Corps Warfighter								
Prairie Warrior	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	
Ulchie Focus Lens (UFL)	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	
Certification Software Blocking	1Q - 4Q	1Q - 4Q						

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**February 2008**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>	<b>PE NUMBER AND TITLE</b> <b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>						<b>PROJECT</b> <b>C34</b>		
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
C34 ARMY TAC C2 SYS ENG	13865	13586	11576	19412	9929	13776	21460	Continuing	Continuing

**A. Mission Description and Budget Item Justification:** Project DC34 - Army Tactical Command and Control Systems (ATCCS) Engineering which is also referred to as 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 SE&I 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. This effort, supporting the Army Battle Command Systems (ABCS) Version 6.30, includes fielding the ABCS Version 6.4 to the entire Army in four years and the current to the future transition path. The four year fielding is with "Good Enough" software and the future transition path was developed as the "Top Down Architecture".

<b><u>Accomplishments/Planned Program:</u></b>	<b><u>FY 2007</u></b>	<b><u>FY 2008</u></b>	<b><u>FY 2009</u></b>
Continue Army Battle Command System (ABCS) Integrated Logistics Support	713	752	729
Continue ABCS Testing and Evaluation of all Battlefield Functional Area (BFA) fielded software	747	788	764
Continue ABCS Fielding/Scheduling	1306	1034	980
Continue ABCS information engineering	1507	1040	1153
Conduct and support system interoperability engineering	318	335	325
Continue exploring state of the art technology insertion in support of the ABCS program	2015	1729	1512
Continue development and implementation of the ABCS information assurance	292	307	298
Continue System of Systems Development	3502	2400	2763
Continue ABCS System Engineering	3465	3141	3052
TENIX		1680	
Small Business Innovative Research/Small Business Technology Transfer Programs		380	
<b>Total</b>	<b>13865</b>	<b>13586</b>	<b>11576</b>

**B. Other Program Funding Summary** Not applicable for this item.

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

February 2008

BUDGET ACTIVITY

**5 - System Development and Demonstration**

PE NUMBER AND TITLE

**0604818A - Army Tactical Command & Control Hardware & Software**

PROJECT

**C34**

**C. Acquisition Strategy** This project provides the technical and programmatic disciplines required for systems engineering and integration, experimentation, acquisition management, testing, interoperability, support to fielding and sustainment to ensure an interoperable and affordable Army Tactical Command and Control Systems (ATCCS). The Program Executive Officer for Command , Control, Communications, Tactical (PEO C3T) has planned an evolutionary approach to fielding ABCS 6.4 in four years which ends in first quarter FY08. Fiscal years FY08 and FY09 will focus on "Systems of Systems" Engineering and integration for evolution toward JC2 and FCS.

# ARMY RDT&E COST ANALYSIS (R3)

February 2008

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
<b>5 - System Development and Demonstration</b>			<b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>							<b>C34</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Northrop Grumman	C/CPIF	Fort Monmouth, NJ/Fort Hood, TX	11148	1692	1Q	1960	1-2Q	1767	1-2Q	Cont.	Cont.	Cont.
IDA	MIPR	Fort Monmouth, NJ	1724							Cont.	1724	Cont.
CSC	C/CPAF	Fort Monmouth, NJ/Fort Hood, TX	36578	1750	1-2Q	1605	1-2Q	1408	1-2Q	Cont.	Cont.	Cont.
MANTECH (Direct Labor)	C/CPFF	Fort Monmouth, NJ/Fort Hood, TX	6496								6496	6546
SYTEX	C/CPFF	Eatontown, NJ		330		340		350			1020	
CAMBER (Config Mgt/)	C/CPAF	Fort Hood, TX	1788								1788	855
ATSC	MIPR	Fort Leavenworth, KY	1850							Cont.	Cont.	Cont.
LOCKHEED MARTIN	C/CPAF	Eatontown, NJ	6034	640	1Q	618	1-2Q	604	1-2Q	Cont.	Cont.	Cont.
GTE (Labor and Equipment)	C/CPFF	Fort Hood, TX	2281		1Q					Cont.	2281	Cont.
Misc Contracts	C/CPAF	Fort Monmouth, NJ/Fort Hood, TX	5888	97	1-2Q	196				Cont.	Cont.	Cont.
Unixpros	C/CPAF	Eatontown, NJ	3711								3711	3711
ROBBINS-GIOIA	C/CPAF	Fort Monmouth, NJ/Fort Hood, TX	7132	890	1Q	160	1-2Q	165	1-2Q	Cont.	Cont.	Cont.
MITRE	C/CPFF	Ft Monmouth, NJ/Eatontown, NJ	38104	5350	1Q	4122	1-2Q	4587	1-2Q	Cont.	Cont.	Cont.
ITT	C/CPAF	Eatontown, NJ	1070							Cont.	Cont.	Cont.
MISCELLANEOUS SUPPORT	C/CPAF	Eatontown, NJ/Fort Hood, TX	1985	566	1-2Q	300				Cont.	Cont.	Cont.
BOOZ-ALLEN	C/CPAF	Eatontown, NJ	1950		1Q					Cont.	Cont.	Cont.
Subtotal:			127739	11315		9301		8881		Cont.	Cont.	Cont.

# ARMY RDT&E COST ANALYSIS (R3)

**February 2008**

BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>			PE NUMBER AND TITLE <b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>							PROJECT <b>C34</b>		
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
IN-HOUSE SUPPORT	MIPRs	Fort Monmouth, NJ/Fort Hood, TX	6414	1294	1Q	1630	1-2Q	1680	1-2Q	Cont.	Cont.	Cont.
CECOM MATRIX	MIPRs	Fort Monmouth, NJ/Fort Hood, TX	6058	791	1Q	815		840		Cont.	Cont.	Cont.
OTHER GOVERNMENT SUPPORT	MIPRs	Fort Monmouth, NJ/Fort Hood, TX/Fort Belvoir, VA	3606	144	1Q	160		175		Cont.	Cont.	Cont.
TENIX Support						1680					1680	
Subtotal:			16078	2229		4285		2695		Cont.	Cont.	Cont.
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
EPG	MIPR	Fort Huachuca, AZ	2737		1Q					Cont.	Cont.	
Subtotal:			2737							Cont.	Cont.	
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
SBIR/STTR			792	321	1-2Q						1113	
Subtotal:			792	321							1113	
<b>Project Total Cost:</b>			<b>147346</b>	<b>13865</b>		<b>13586</b>		<b>11576</b>		<b>Cont.</b>	<b>Cont.</b>	<b>Cont.</b>

# Schedule Profile (R4 Exhibit)

February 2008

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604818A - Army Tactical Command & Control Hardware & Software**

PROJECT  
**C34**

Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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



**Schedule Detail (R4a Exhibit)**

**February 2008**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>		<b>PE NUMBER AND TITLE</b> <b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>					<b>PROJECT</b> <b>C34</b>	
<b><u>Schedule Detail</u></b>	<b><u>FY 2007</u></b>	<b><u>FY 2008</u></b>	<b><u>FY 2009</u></b>	<b><u>FY 2010</u></b>	<b><u>FY 2011</u></b>	<b><u>FY 2012</u></b>	<b><u>FY 2013</u></b>	
NATIONAL TRAINING CENTER (NTC) ROTATIONS	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	
ABCS 6.4 SOFTWARE DEVELOPMENT and TESTING								
SBCT - 4 FIELDING								
SBCT-5 FIELDING								
SBCT-6 FIELDING	1Q - 3Q							
FUTURE OPERATIONAL ARCHITECHTURE (OA)/SYSTEM ARCHITECTURE (SA)	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	
ABCS SYSTEMS ENGINEERING & INTEGRATION TRANSITION TO FCS	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	
FIELDING OF ABCS 6.4 TO ARMY	1Q							

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**February 2008**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>		<b>PE NUMBER AND TITLE</b> <b>0604818A - Army Tactical Command &amp; Control Hardware &amp; Software</b>						<b>PROJECT</b> <b>JN1</b>	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
JN1 JOINT NETWORK NODE (JNN) TESTING	8200	16369							24569

**A. Mission Description and Budget Item Justification:** As the emerging major component of the Army Bridge to Future Network, 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) Communication System. This fundamental shift in the Tactical backbone communications system prepares the Army culture and leadership for the future introduction of both Warfighter Information Network-Tactical (WIN-T) and Future Combat System (FCS). Once proliferated throughout the force structure, tied to modernizations for the Global War on Terrorism (GWOT) deployment missions, the JNN Network will provide encrypted internet connectivity, from landfall sanctuaries to the Battalion Echelon. The Network is capable of passing unclassified and classified traffic levels, throughout its entire structure, from Home Station Operations Center (HSOC) to the furthest forward Battalion Elements. Designed to meet modularity and rapid deployment mandates, the Network is also intended to support Joint Communications Requirements, as well as Internet Applications from approved National federal Agencies and Coalition Partners. The Network, by its basic design, will allow incorporation of Future Communication improvements, as well as a lot of technologies for modular Communications, offered by both overmanned and industry sources.

FY 08: RDT&E funding will be used to test the initial out put of the production from the competitive contract award which was awarded in Sep 07.

<b>Accomplishments/Planned Program:</b>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Operational Testing Event	8200	15911	
Small Business Innovative Research/Small Business Technology Transfer Program (SBIR/STTR)		458	
<b>Total</b>	<b>8200</b>	<b>16369</b>	

**B. Other Program Funding Summary** Not applicable for this item.

**C. 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 combined program. The WIN-T ACAT 1D program now consists of four separately reporting Increments, with JNN re-designated as WIN-T Increment 1. RDT&E funding will be used to test the initial out put of the production.