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

**DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

2040: Research, Development, Test & Evaluation, Army

PE 0604665A: FCS Sustainment & Training R&D

BA 5: Development & Demonstration (SDD)

•											
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	598.673	-	-	-	-	-	-	-	-	Continuing	Continuing
FC6: BCT Network Hardware & Software	598.673	-	-	-	-	-	-	-	-	Continuing	Continuing

#### Note

This program was restructured to meet Army emerging requirements.

## A. Mission Description and Budget Item Justification

This program has no FY 2013 Base or OCO request.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	<b>FY 2013 Base</b>	FY 2013 OCO	FY 2013 Total
Previous President's Budget	610.389	-	203.721	-	203.721
Current President's Budget	598.673	-	-	-	-
Total Adjustments	-11.716	-	-203.721	-	-203.721
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
<ul> <li>Adjustments to Budget Years</li> </ul>	-	-	-203.721	-	-203.721
Other Adjustments 1	-11.716	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army										<b>DATE:</b> February 2012			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)								PROJECT FC6: BCT Network Hardware & Software					
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost		
FC6: BCT Network Hardware & Software	598.673	-	-	-	-	-	-	-	-	Continuing	Continuing		
Quantity of RDT&E Articles													

#### Note

Beginning in FY12 the program was restructured to meet the Army?s emerging requirements.

## A. Mission Description and Budget Item Justification

This program has no FY 2013 Base or OCO request.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Title: Contractor SOSCOE Development CP 13/14	50.967	-	-
Articles:	0		
Description: Funding is provided for the following effort			
FY 2011 Accomplishments:			
Continued the working towards First Qualification Test (FQT) and released SOSCOE Build 10.6 in 1Q FY11 for integration with			
Battle Command System (BCS) CP 13/14 Phase 1 software. Provided incremental software drops of SOSCOE to support			
ntegration with CP 13/14 Phase 2 Battle Command System (BCS) CP 13/14 Phase 2 applications. Continued development and			
ntegration activities through Build 10.8 until contract termination prior to qualification of software. SOSCOE Build 10.7 through			
10.8 included the following enhancements: 1) enhanced service discovery for the War fighter to access services offered by as many as 5000 BCT platforms on the battlefield, such as searching for available sensors to retrieve data from and connecting			
with unmanned platforms to control; 2) enhanced interoperability with AFATDS for coordinating fires support to engage enemy			
argets; the ability to tailor the size and tools provided by SOSCOE for resource-constrained platforms such as the Common			
Controller; 3) network Quality of Service (QoS) controls into SOSCOE for ensuring that more important information is given priority			
or being passed across the network; 4) dynamic (during the mission) platform reconfiguration for mission re-tasking and hardware			
ailure recovery where the system is reconfigured to support a lesser mission capability; and 5) enhanced scalability of chat and			
whiteboard and directory data to ensure that Soldiers across the entire BCT can each collaborate with each other.			
Title: Contractor Communication Systems Software CP 13/14	45.351	-	-
Articles:	0		
Description: Funding provided for execution management prior to contract termination.			
Tarang provided for exceeding management prior to contract termination.			

PE 0604665A: FCS Sustainment & Training R&D Army

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army			DATE: Fel	bruary 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604665A: FCS Sustainment & Training R&D	PROJECT FC6: BCT Network Hardware & Software				
B. Accomplishments/Planned Programs (\$ in Millions, Article	e Quantities in Each)		FY 2011	FY 2012	FY 2013	
FY 2011 Accomplishments: Continued development of NMS CP 13/14 Phase 1 software. Cointegration support to the Network System Integration and Test (I until contract termination prior to qualification of software. Continuincremental releases of software capability to the NSIT to support communications elements (i.e., computers and radios) until contract.	NSIT) lab, and resolved Software Problem Reports (SP nued CP 13/14 Phase 2 software development and prov t integration with each of the Battle Command applicati	Rs) /ided				
Title: Contractor Battle Command Software - Systems Engineeri	ng/Program Management (SE/PM) CP 13/14	Articles:	26.797 0	-	-	
<b>Description:</b> Funding provided for execution management prior	to contract termination.					
FY 2011 Accomplishments: Provided technical oversight of the software development effort. architecture/design. Provided quality assurance, configuration m Continued requirements verification and validation (V&V) of softw technical/management reviews and provided on-site participation Warfighter Machine Interface Services (WMIS), Situational Unde and Planning and Preparation Services (PPS).	nanagement and purchased software development licer ware delivered. Provided data deliverables, participate n as required. Includes subcontractor fee associated wit	nses. in :h				
Title: Contractor Battle Command Software - Warfighter Machine	e Interface Services (WMIS) CP 13/14	Articles:	21.420	-	-	
<b>Description:</b> Funding provided for execution management prior	to contract termination.	Articles.				
FY 2011 Accomplishments:  Continued software development/coding of WMIS to support Batt development of Phase 1 functionality, provided integration supportesolve SPRs until contract termination prior to qualification of so System (BCS) CP 13/14 Phase 2. Continued until contract termin capability to support early Battle Command System (BCS) system during software-to-software integration. WMIS CP 13/14 Phase 2 and enhancements to the Presentation Services, which manage allows the Warfighter to tailor their preferences of how the defaul	tle Command System (BCS) CP 13/14 Phase 1. Continuent to the Network System Integration and Test (NSIT), a oftware. Began development of WMIS to support Battle nation. Provided multiple software releases of incrementation. Provided integration support to the 02 software functionality included: improved layout of the how the information is being presented to the Warfighten	and Command ntal (NSIT) e screens				
Title: Contractor Battle Command Software - Battle Command &			20.823	-		
		Articles:	0			

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army			DATE: Fe	bruary 2012	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604665A: FCS Sustainment & Training R&D	PROJEC FC6: BC7	T ⊓Network Ha	rdware & So	ftware
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2011	FY 2012	FY 2013
<b>Description:</b> Funding provided for execution management prior to	o contract termination.				
FY 2011 Accomplishments:  Continued software development/coding of BCME to support Batt development of Phase 1 functionality, provided integration suppor resolved SPRs until contract termination prior to qualification of so Command System (BCS) CP 13/14 Phase 2. Provided multiple so system-level integration and provide integration support to the NS Phase 2 software includes enhancements to: alerts and notification control for engagement of Line of Sight (LOS) targets, deconfliction conflicts, such as route planning and direct fires engagements to a	It to the Network System Integration and Test (NSIT), a oftware. Began development of BCME to support Battle oftware releases of incremental capability to support easily. Continued until contract termination. BCME CP ons; task organization; sensor control; and fires and effort of the ground-space for unmanned and manned veloping.	and e arly BCS 13/14 ects			
Title: Contractor Battle Command Software - Situational Understa	·		14.887	_	_
		Articles:	0		
<b>Description:</b> Funding provided for execution management prior to	o contract termination.				
FY 2011 Accomplishments:  Continued software development/coding of SU to support Battle Codevelopment of Phase 1 functionality, provided software-to-software termination prior to qualification of software. Began development of Phase 2. Provided multiple software releases of incremental capa integration support to the Network System Integration and Test (Nowill providing the following capability: removal of entities from the incorporation of terrain data while combining sensor images and coff the battlefield; interoperability updates to share situational aware weather data from BDE/Enterprise systems for displaying to the Victorian development of the support to the Victorian development of the victorian development	are integration support to NSIT, and resolved SPRs un of SU to support Battle Command System (BCS) CP 1 ability to support early BCS system-level integration. P ISIT). Continued until contract termination. Phase 2 of COP over time that no longer are relevant to the miss data into the COP for an improved awareness and und reness data with systems external to the IBCT; and rec	til contract 3/14 rovided f SU ion; erstanding			
Title: Contractor Battle Command Software - Planning and Prepa	ration Services (PPS) CP 13/14	Articles:	6.565	-	-
<b>Description:</b> Funding is provided for the following effort		2 11 11 10 10 10 1			
FY 2011 Accomplishments: Continued software development/coding of PPS to support Battle development for Phase 1 functionality, provided integration supports	• • • • • • • • • • • • • • • • • • • •				

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army			<b>DATE</b> : February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604665A: FCS Sustainment & Training R&D		PROJECT =C6: BCT Network Hardware & Software		
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2011	FY 2012	FY 2013
resolved SPRs until contract termination prior to qualification of soft System (BCS) CP 13/14 Phase 2. Provided multiple software releasintegration. Provided integration support until contract termination. the capability to combine planning information to provide the user of the UGVs; sensor planning to assist the commander in placement planning to assist the commander on how to maneuver platforms of analyzer, to identify obstacles and hazards.	ftware. Began development of PPS to support Battle (asses of incremental capability to support early BCS sy PPS CP 13/14 Phase 2 included: ground-space planwith automated recommendations for ground route playent of sensor assets on the battlefield; enhanced man	stem-level ining, with anning euver			
Title: Contractor Fusion Software CP 13/14		Articles:	9.593	-	
<b>Pescription:</b> Funding provided for execution management prior to <b>FY 2011 Accomplishments:</b> Continued software development/coding of SDM and L1F to support development of Phase 1 functionality, provided integration support to qualification of software. Began development of Sensor Data MacCommand System (BCS) CP 13/14 Phase 2. Provided multiple rerisk, with the result of minimizing cost of integrating the Battle Com 10.7. Provided integration support to the Network System Integrate Planned SDM CP 13/14 Phase 2 capability included updated interfesensor suite control for the ARV-A(L); and interfacing with the curre (DCGS-A). SDM receives enemy location updates from Distribute into the BCT-M database. Sharing of enemy locations with other stee BCT. Planned L1F CP 13/14 Phase 2 capability includes enhaltengines, and the Distributed Fusion Manager (DFM). The DFM wirelevant data faster.	ort Battle Command System (BCS) CP 13/14 Phase Common to NSIT, and resolved SPRs until contract termination anagement (SDM) and Level 1 Fusion (LIF) to support leases to simplify integration, reduce schedule and temand System (BCS). Integrated SOSCOE Builds 10 ion and Test (NSIT). Continued until contract terminates with the Aided Target Recognition (AiTR) sensolent force system Distributed Common Ground System d Common Ground Station-Army (DCGS-A) and integrated systems increases the survivability and combat effection cements to the Blue Force Location Service (BFLS)	n prior t Battle chnical .6 and tion. r; updated m-Army grates it veness of , fusion			
Title: Contractor Embedded Training Software CP 13/14		Articles:	11.084 0	-	
<b>Description:</b> Funding provided for execution management prior to	contract termination.				
FY 2011 Accomplishments: Continued development of TCC's for CP 13/14 and initiate integrat contract termination prior to qualification of software. The TCC's p					

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army			DATE: Fel	oruary 2012			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604665A: FCS Sustainment & Training R&D	PROJECT FC6: BC7	JECT BCT Network Hardware & Software				
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2011	FY 2012	FY 2013		
Computer Based Training (CBT), enhanced Leader Battle Staff (LI Tactics, Techniques and Procedures (TTPs) that use the actual Cl and communications systems; providing Individual Operator Trainithe SUGV. Live training capability enhanced the IBCT platforms, Instrumentation Systems (CTC-IS), Home station Instrumentation (DRTS).	P 13/14 Battle Command System (BCS) software apping (IOT) for instructing the operation of the CC for coto enable interoperability with Combat Training Center	lications ntrolling					
Title: Contractor Logistics Products Application Integration CP 13/	/14	Articles:	23.345 0	-	-		
Description: Funding is provided for the following effort							
FY 2011 Accomplishments:  Continued software development of Logistics Products to support functionality, provided integration support to NSIT, and resolved S Began development of Logistics Products to support Battle Comm termination. Provided multiple software releases of incremental lo Provided integration support to the Network System Integration an 13/14 Phase 2 included: distribute maintenance requests via the aggregate platform readiness by platform type using current force and integration of new messages with the Cross Domain Guard. L capability [Logistics Data Manager (LDM) and Logistics Data Ager data from the Platforms for analysis. Additional LDM capability included Combat Support System - Army (GCSS-Army).	PRs until contract termination prior to qualification of stand System (BCS) CP 13/14 Phase 2. Continued until projection of the project of th	software. il contract tegration. s and ments; Phase 2 and status	45.005				
<i>Title:</i> Contractor Communication Hardware (Air and Ground) CP 1	13/14	Articles:	15.980 0	-	-		
<b>Description:</b> Funding provided for execution management prior to	contract termination.						
FY 2011 Accomplishments: Completed procurement of 251 rifleman radios for Common Contrintegration and test acceptance of NIK payloads. The NIK consists the Ground Platform Communications System integrating element the vehicle implementation Plan Conduct Critical Design Review (	s of the GMR Radio, the Integrated Computer System is, specifically, cables, antennas, and unique signal filt	, and ers for					

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army			DATE: Fel	bruary 2012	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604665A: FCS Sustainment & Training R&D	PROJECT FC6: BCT Network Hardware & Software			
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2011	FY 2012	FY 2013
update ICDs and schematics. Procured and integrated into Netwo development of the teleops version of SRW (SRW 1.1) SUGV plate	, , ,	ed the			
Title: Contractor Common Controller (CC), Hardware and Software	e CP 13/14	Articles:	38.446 0	-	-
<b>Description:</b> Funding provided for execution management prior to	contract termination.				
FY 2011 Accomplishments: Continued to develop the CC for the Critical Design Review.					
Title: Contractor ICS - Computer Processing, Hardware and Softw	Articles:	76.649 0	-	-	
<b>Description:</b> Funding provided for execution management prior to	contract termination.				
FY 2011 Accomplishments:  Continued ICS design effort to deliver LNPV2 Brassboard prototype prototypes. Both the LNPv2 and SNP expect to leverage off of ICS processing, memory, encrypted storage and VITA standard LRM's capability (including some hardware encryption and router/firewall designed to bring the minimal network connectivity to BCT platform radio networks, and routes the message to recipients on the secondan interoperable link between systems/subsystems. The MNIK proprofile management to the dismounted soldier's unit. These function a geographically remote mobile Command Post, a Commander's visual System. The MNIK will consist of the following components as designed Radio Subsystem (RSS), Wrist Control Unit (WCU), Power Subsystems), and MNIK Software Subsystem (MSS).	S LRU developments bringing high level routing, exter to the type VI chassis. The LNP V2 will provide great capabilities). The SNP is the down sized version of the like Trucks. The MNIK converts the messages between additional convides range extension, data mediation, proxy, filtering one enable the dismounted soldier's network to connected, a Tactical Operations Center and/or another scribed in the Buyer Specification., Computer Subsystem (PSS),Interconnecting Cables, Load Bearing Equations.	nded Inter I			
Title: Contractor Network Integration (SW/SW and SW/HW) CP 13	3/14	Articles:	41.464 0	-	
<b>Description:</b> Funding provided for execution management prior to	contract termination.				
FY 2011 Accomplishments: Continued integration of CP 13/14 BCS Phase 1 software capabilit and Embedded Training application developers until contract terminates.					

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army			DATE: Fe	bruary 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604665A: FCS Sustainment & Training R&D		PROJECT FC6: BCT Network Hardware & Software			
B. Accomplishments/Planned Programs (\$ in Millions, Article	Quantities in Each)		FY 2011	FY 2012	FY 2013	
Releases (IRs) in 2QFY11 for early integration of the CC in conjuincluded integration of SOSCOE Builds 10.1 through 10.6 with the		Phase 1				
Title: Contractor Fee		Articles:	40.337 0	-	-	
<b>Description:</b> Funding provided for execution management prior t	o contract termination.					
FY 2011 Accomplishments: Contractor prime fee.						
Title: Special Termination Cost		Articles:	94.693 0	-	-	
Description: Special Termination						
FY 2011 Accomplishments: Special Termination Costs for Boeing. These costs are paid to the Severance Pay, Reasonable costs continuing after termination, Spersonnel from remote or liaison sites. In addition to the FAR termination to other Army agencies. These funds also include all cost selected materials IAW FAR 45/49. All Secure equipment will be	ettlement of expenses, and the costs to return field ser mination costs this element includes Disposition of Terr t for packaging, transporting, and short and long term s	vice ninated				
Title: NIE SUE-11.2		Articles:	20.986	-	-	
<b>Description:</b> Funds were provided to support integration of both current Army force structure. This includes all integration and test PILOT and execution of the Network Integration Evaluation (NIE)	efforts for 11.2. This event included the, LOADEX, CC	into the				
FY 2011 Accomplishments: Provided funding to support integration and evaluation of SUTs at Completed risk reduction analysis. These funds covered the NIE contractors) costs for; travel, and shipment of equipment, Contract Subject Matter Experts (GSMEs) required to support integration and additional prototypes that were needed to effectively complete de development and fabrication of integration hardware and software	participant?s (Emerging and existing technologies PMs stor Field Service Representatives (CFSRs) and Gover activities, integration kit development, and the purchase tailed evaluations of the current brigade. It included cos	and nment of				
Title: NIE SUE-12.1			26.130	-	-	

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army			<b>DATE</b> : Fel	bruary 2012	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJEC	Т		
2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)	PE 0604665A: FCS Sustainment & Training R&D	FC6: BC7	「Network Ha	rdware & So	ftware
B. Accomplishments/Planned Programs (\$ in Millions, Articl	le Quantities in Each)		FY 2011	FY 2012	FY 2013
		Articles:	0		
<b>Description:</b> Funds were provided to support integration of both current Army force structure. This includes all integration and test PILOT and execution of the Network Integration Evaluation (NIE)	st efforts for 12.1. This event included the, LOADEX, CO				
FY 2011 Accomplishments: Provided funding to support integration and evaluation of SUTs and Completed risk reduction analysis. These funds covered the NIE contractors) costs for; travel, and shipment of equipment, Contractors Subject Matter Experts (GSMEs) required to support integration additional prototypes that were needed to effectively complete development and fabrication of integration hardware and software	E participant?s (Emerging and existing technologies PMs actor Field Service Representatives (CFSRs) and Gover activities, integration kit development, and the purchase letailed evaluations of the current brigade. It included co	and nment of			
Title: NIE SUE 12.2		Articles:	1.100	-	
<b>Description:</b> Funds were provided to support integration of both current Army force structure. This includes all integration and ter PILOT and execution of the Network Integration Evaluation (NIE	st efforts for 12-2. This event included a LOADEX, COM	into the	O		
FY 2011 Accomplishments: Provided funding to support integration and evaluation of SUES Completed risk reduction analysis. These funds covered the NIE contractors) costs for; travel, and shipment of equipment, Contra Subject Matter Experts (GSMEs) required to support integration additional prototypes that were needed to effectively complete development and fabrication of integration hardware and software	E participant?s (Emerging and existing technologies PMs actor Field Service Representatives (CFSRs) and Gover activities, integration kit development, and the purchase letailed evaluations of the current brigade. It included co	and nment of			
Title: Government- Sys Engr - IBCT Incr 1		Articles:	4.156 0	-	
<b>Description:</b> Funding was provided for systems engineering an Integration Evaluation 11.1	d project management for Increment 1 activities for Net				

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Exhibit R-2A, RDT&E Project Justif	fication: PB 2	2013 Army							DATE: Fel	oruary 2012		
APPROPRIATION/BUDGET ACTIVIT 2040: Research, Development, Test & BA 5: Development & Demonstration	& Evaluation,	Army	I	<b>R-1 ITEM NO</b> PE 0604665 <i>i</i> R& <i>D</i>				PROJECT FC6: BCT Network Hardware & Software				
B. Accomplishments/Planned Prog	ırams (\$ in N	lillions, Arti	icle Quantit	ties in Each	)				FY 2011	FY 2012	FY 2013	
Ensured the government and soldiers trade studies, architectural mgt, requidefinitions, configuration mgt, oversig Risk, M&S Simulation, Performance/pManagement. In support of NIE 11.1 testing.	irements deco ght, specialty product/Produ	omposition, engineering ucibility Assu	requirement ,analysis ar urance, Inte	ts flow down nd verificatio gration & Ve	developme of integrat rification, Te	nt of specific ed force effe chnology ar	cations, inte ctiveness, s d Experime	rface software, ntation				
Title: Battle Command Development								Articles:	7.900	-	-	
Description: These funds were used the Boeing contract, to ensure continuate the funds provided for the Army to configuration management, integrate and interoperability, Provided technic waveforms, audio and video through configuration and integration and integration and integrated for the development and explain the provided for the development at also provided for the development at also provided for the development at also provided for the development and continuation, designed baseline validation COE critical enabler implementation process refinement, and verification of	ontinue; tracing the system of	ng requirements & overlaps ynchronization the and stude and routing of gration, enter of and their verification of conducted responses and conducted respons	ents across s, and solution, standardies for future configuration erprise level on policies are rification, he emulator are COE referisk assessn	the integrate ons sets in the integrate ons sets in the dization of hase technologien, information (Brigade stand procedure ardware tested integration rence architements and ar	ed network pare current nurdware and capa nurdard) and es, the developmentools. Provicture complalysis, accre	ortfolio, deta etwork struc software to bilities of rac & security, level archite opment and int and imple ided for CO iances, and editation and	ailed analysi ture, data an optimize into lios and trace vehicle platf cture. It also implementation se E/CE archite the verification	s. s nd egration des, orm o ation of support. ecture ion				
and refinement of test plans and ever	nts. And prov	ided detailed	d metrics for			ectiveness. s/Planned F	Programe S	uhtotale	598.673		_	
C. Other Program Funding Summa  Line Item  FC2: FCS System of Systems Engr & Program Management	<b>ry (\$ in Millio</b> <b>FY 2011</b> 471.559	ons) FY 2012 298.589	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 201		Cost To 7 Complete 0.000	Total Cos	

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army	DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
2040: Research, Development, Test & Evaluation, Army	PE 0604665A: FCS Sustainment & Training	FC6: BCT I	Network Hardware & Software
BA 5: Development & Demonstration (SDD)	R&D		

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

	•	•	FY 2013	FY 2013	FY 2013					Cost To	
Line Item	FY 2011	FY 2012	Base	OCO	<u>Total</u>	FY 2014	FY 2015	FY 2016	FY 2017	Complete	<b>Total Cost</b>
• FC3: FCS Reconnaissance (UAV)	18.792									0.000	18.792
Platforms											
FC5: FCS Unattended Ground	1.451									0.000	1.451
Sensors											
B0002: BCT Network	46.176									0.000	46.176
G80001: BCT Training/Logistics/	31.404	26.008								0.000	57.412
Management											

## D. Acquisition Strategy

Beginning in FY12 the program was restructured to meet the Army?s emerging requirements.

#### E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0604665A: FCS Sustainment & Training

R&D

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PROJECT

FC6: BCT Network Hardware & Software

**DATE:** February 2012

Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
SPECIAL TERMINATION COSTS	Various	THE BOEING COMPANY:ST. LOUIS, MO	94.693	-		-		-		-	0.000	94.693	0.000
		Subtotal	94.693	-		-		-		-	0.000	94.693	0.000

#### Remarks

All Management Services costs for this project are included in 0604661 FC2 SoS Engineering and Program Management project.

Product Development (	t Development (\$ in Millions)			FY 2	2012		2013 ise		2013 CO	FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Contractor SOSCOE Development CP 13/14	Various	THE BOEING COMPANY:St. Louis, MO	50.967	-		-		-		-	Continuing	Continuing	Continuing
COMMUNICATIONS SYSTEMS SOFTWARE CP 13/14	Various	THE BOEING COMPANY,:St. Louis, MO	45.351	-		-		-		-	Continuing	Continuing	Continuing
CONTRACTOR BATTLE COMMAND SOFTWARE / SEPM CP 13/14	Various	THE BOEING COMPANY,:ST LOUIS, MO	26.797	-		-		-		-	Continuing	Continuing	Continuing
CONTRACTOR BATTLE COMMAND SOFTWARE - WARFIGHTER MACHINE INTERFACE SERVICES (WMIS) CP 13/14	Various	THE BOEING COMPANY,:ST LOUIS, MO	21.420	-		-		-		-	Continuing	Continuing	Continuing
CONTRACTOR BATLE COMMAND SOFTWARE - BATTLE COMMAND & MISSION EXECUTION (BCME) CP 13/14	Various	THE BOEING COMPANY,:ST LOUIS, MO	20.823	-		-		-		-	Continuing	Continuing	Continuing
CONTRACTOR BATTLE COMMAND SOFTWARE - SITUATIONAL	Various	THE BOEING COMPANY,:ST LOUIS, MO	14.887	-		-		-		-	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

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R&D

**DATE:** February 2012

PROJECT

FC6: BCT Network Hardware & Software

Product Development (\$ in Millions)			FY 2012		FY 2013 Base			2013 CO	FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
UNDERSTANDING (SU) CP 13/14													
CONTRACTOR BATTLE COMMAND SOFTWARE - PLANNING AND PREPARATION SERVICES (PPS) CP 13/14	Various	THE BOEING COMPANY,:ST LOUIS, MO	6.565	-		-		-		-	Continuing	Continuing	Continuin
CONTRACTOR FUSION SOFTWARE	Various	THE BOEING COMPANY:ST LOUIS, MO	9.593	-		-		-		-	Continuing	Continuing	Continuin
CONTRACTOR EMBEDDED TRAINING SOFTWARE	Various	THE BOEING COMPANY,:ST LOUIS, MO	11.084	-		-		-		-	Continuing	Continuing	Continuin
CONTRACTOR LOGISTICS PRODUCTS APPLICATION INTEGRATION CP 13/14	Various	THE BOEING COMPANY:ST LOUIS, MO	23.345	-		-		-		-	Continuing	Continuing	Continuin
CONTRACTOR COMMUNICATION HARDWARE (AIR & GROUND) CP 13/14	Various	THE BOEING COMPANY:ST. LOUIS, MO	15.980	-		-		-		-	Continuing	Continuing	Continuin
CONTRACTOR COMMON CONTROLLER (CC) HARDWARE & SOFTWARE CP 13/14	Various	THE BOEING COMPANY:ST LOUIS, MO	38.446	-		-		-		-	Continuing	Continuing	Continuin
CONTRACTOR ICS - COMPUTER PROCESSING, HARDWARE AND SOFTWARE CP 13/14	Various	THE BOEING COMPANY:ST. LOUIS, MO	76.649	-		-		-		-	0.000	76.649	0.00
CONTRACTOR NETWORK INTEGRATION (SW/HW) CP 13/14	Various	THE BOEING COMPANY:ST. LOUIS, MO	41.464	-		-		-		-	0.000	41.464	0.00
CONTRACTOR FEE	Various	THE BOEING COMPANY:ST. LOUIS, MO	40.337	-		-		-		-	0.000	40.337	0.00

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

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PROJECT

FC6: BCT Network Hardware & Software

**DATE:** February 2012

FY 2013 FY 2013 FY 2013 **Product Development (\$ in Millions)** FY 2012 Base oco Total **Total Prior** Target Contract Method Performing Years Award Award Award Cost To Value of Complete **Cost Category Item** & Type **Activity & Location** Cost Cost Date Cost Date Cost Date **Total Cost** Contract Cost NIE SUE - 11.2/12.1 Various VARIOUS: VARIOUS 47.116 0.000 47.116 0.000 NIE SUE 12.2 **VARIOUS: VARIOUS** 1.100 0.000 1.100 0.000 Various GOVERNMENT - SYS ENG -**MIPR** VARIOUS: VARIOUS 4.156 0.000 4.156 0.000 **IBCT INCR 1** GOVERNMENT - SYS ENG Allot SOSI:WARREN, MI 7.900 0.000 7.900 0.000 (BOEING BC TRANSFER) Subtotal 503.980

#### Remarks

- 1: Subcontractor: Lockheed Martin Integrated Systems and Solutions, San Diego, CA; (ISR Level 1 Fusion)
- 2: Subcontractor: Northrop Grumman Network Management Systems, Carson, CA; (Network Mgt Sys)
- 3: Subcontractor: Boeing Mesa, Mesa, AZ; (Warfighter Machine Interface)
- 4: Subcontractor: Northrop Grumman Mission Systems, Carson, CA; (Logistics Decision Support Software)
- 5: Subcontractor: Raytheon Network Centric, Fort Wayne, IN: (Battle Command & Mission Execution)
- 6: Subcontractor: Network Centric Systems/Austin Info Systems, Austin, TX: (Situational Understanding)
- 7: Subcontractor: General Dynamics C4 Systems, Scottsdale, AZ; (Sensor Data Mgt)(Planning & Preparation Services)
- 8. Subcontractor: Raytheon Network Centric Systems, Plano, TX; (Ground Sensor Integrator)
- 9. Subcontractor: Northrop Grumman Electronic Sys CMS, Belcamp, MD; (Air Sensor Integrator)
- 10. Subcontractor: BAE Systems, Wayne, NJ; (Air & Ground Communication Integration)
- 11. Subcontractor: General Dynamics Adv Info Sys, Bloomington, MN; (Integrated Computer Systems)
- 12. Subcontractor: Honeywell Defense & Electronics System, Albuquerque, NM; (Platform Soldier Mission Readiness System)
- 13. Subcontractor: IBM, Bethesda, MD; (Logistics Data Management Systems)
- 14. Subcontractor: Lockheed Martin Missiles and Fire Control. Dallas. TX
- 15. Subcontractor: Textron. Willington. MA

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
GOVERNMENT TEST AND M&S	Various	PEO I:Warren, MI	-	-		-		-		-	Continuing	Continuing	Continuing
Subtotal -				-		-		-		-			

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army

BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

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R&D

PROJECT

CO BOTH ( ) ( )

FC6: BCT Network Hardware & Software

**DATE:** February 2012

Test and Evaluation (\$ in	Test and Evaluation (\$ in Millions)			FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract

#### Remarks

FY11: All System of System Test and Evaluation costs for this project are included in 0604661 FCS SoS Engineering and Program Management Program Element.

F11: All Platform specific Test and Evaluation costs for this project are included in 0604661 FCS Sos Engineering and Program Management Program Element.

	Total Prior Years Cost	FY 2	2012	FY 2 Ba	FY 2	2013 CO	FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	598.673	-		-	-		-			

#### Remarks

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