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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 0604805A: Command, Control, Communications Systems - Eng Dev							
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	9.489	58.688	90.736	0.000	90.736	48.996	24.286	23.113	23.193	Continuing	Continuing
485: Info Standards Interop Eng/Joint Interop Cert	4.745	9.809	10,061.000	0.000	10.061	10.134	10.206	10.110	10.178	Continuing	Continuing
589: ARMY SYS ENGINEERING & WARFIGHTING TECH SUP	4.877	48.930	10.100	0.000	10.100	10.151	10.207	10.117	11.130	Continuing	Continuing
593: JOINT BATTLE COMMAND - PLATFORM (JBC-P)	0.000	0.000	70.628	0.000	70.628	28.786	3.964	2.974	1.981	Continuing	Continuing
A. Mission Description and Budget Item Justification This Program Element (PE) supports efforts to develop interoperability of Army programs and products, horizontally and vertically for the digitized battlefield. Project D485 supports Information Standards Interoperability Engineering and Joint Interoperability Certification. It provides the critical elements of the Army/Joint Technical Architecture, the mandated standards and communication protocols for Army/Joint ground and air operations, and crucial certification test tools to evaluate systems' interoperability for the Warfighter in support of the Vice Chief of Staff of the Army (VCSA) and Army Acquisition Executive (AAE). It also provides Joint certification testing and certification recommendations to the Joint Chiefs of Staff (JCS) for Army systems. This Army-wide effort directly supports the management, oversight, development, maintenance, and interoperability at the Army enterprise level C4I/IT (Command, Control, Communications, Computers, and Intelligence/Information Technology) architecture efforts required to implement Unit Set Fielding (USF), Software Blocking (SWB) Policy and Army Knowledge Management. Project D589 Army Systems Engineering (ASE) & Warfighter Technical Support provides essential technology expertise on all Systems Engineering and Technical Architecture (SE/TA) matters critical to gain Information Dominance and foster interoperability among all Army systems.											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
2040: Research, Development, Test & Evaluation, Army		PE 0604805A: Command, Control, Communications Systems - Eng Dev			
BA 5: Development & Demonstration (SDD)					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	9.762	88.995	91.214	0.000	91.214
Current President's Budget	9.489	58.688	90.736	0.000	90.736
Total Adjustments	-0.273	-30.307	-0.478	0.000	-0.478
• Congressional General Reductions		-30.307			
• 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	-0.273	0.000			
• Adjustments to Budget Years	0.000	0.000	-0.478	0.000	-0.478

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Army								<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604805A: <i>Command, Control, Communications Systems - Eng Dev</i>				<b>PROJECT</b> 485: <i>Info Standards Interop Eng/Joint Interop Cert</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
485: <i>Info Standards Interop Eng/Joint Interop Cert</i>	4.745	9.809	10,061.000	0.000	10.061	10.134	10.206	10.110	10.178	Continuing	Continuing
Quantity of RDT&E Articles											

**A. Mission Description and Budget Item Justification**

Focus for this project is to support the engineering or evaluation of commercially-available information technology (IT) tools to develop architecture products Information Technology based Command, Control, Computers, and Communications (C4/IT) systems such as Applications Program Interfaces for Weapons Systems. A significant effort will be on building Army (consistent with DoD) C4/IT technical standards-compliant Army data repositories that are web-accessible but secure. These repositories will be consistent with DoD standards and policies and virtually appear to be a single repository for Army C4/IT architecture products. To support the Army Vice Chief of Staff (VCSA) and the Army Chief Information Officer/G6, as cited in the AEA Master Plan, this initiative fulfills the Clinger-Cohen Act mandate of developing sound integrated Information Technology (IT) architectures and the Army's Software Blocking Policy. The increased combat power of the Future Force will be dependent on the information superiority of network & knowledge centric warfare and the ability of systems to be fully -interoperable as a member of the joint, multinational, interagency team as well as emerging Future Force (FF) C4ISR (Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance) Systems. It identifies and reduces interoperability issues earlier in the life cycle by intra-Army/FF/Joint/combined experiments and assessments, and through the establishment & sustainment of common standards. This Army wide effort directly supports the management, oversight, development, maintenance, and interoperability of the Army enterprise level C4/IT architecture efforts required to implement Unit Set Fielding, Software Blocking and Army Enterprise Architecture (AEA). Specifically, this project resources the Army's messaging standards conformance authority in assessing compliance with the Defense Information Systems Repository (DISR), in meeting the warfighter information exchange requirements and in facilitating their interoperability. It also resources, in accordance with the DISR, the development and maintenance of the following information standards: Variable Message Format (VMF) & Combat Net Radio (CNR) protocol, which support Army/Joint ground operations; Tactical Digital Information Links (TADILs), which support Air Defense operations; and US Message Text Format (USMTF), which support Intel and Commanders operations. It provides the Army's lead for configuration management functions of these standards and test tools at both Army and Joint levels. This project resources the Army participation in joint/allied messaging certification testing & configuration management processes. This project also resources the development and fielding of a suite of four (4) crucial tools which are used throughout the entire Army. These tools which are currently under development will provide the ideal means to: a) validate JTA-A critical messaging and protocol standards; b) improve systems interoperability; c) verify/certify correct system implementations and interpretation to JTA-A; d) sustain/support digitization and transition of fielded systems; e) support Software Blocking and interoperability testing; f) provide Legacy AEA interoperability with Future Combat System (FCS) command and control systems. These crucial tools are critical to the JTA-A Compliance, Certification Testing mission & Interoperability programs. The task also supports the Army's transformation campaign while mitigating interoperability issues resulting in reducing cost & program slippages. This project also provides the Configuration Management & Control for the Software Blocking (SWB)/USF (Unit Set Fielding).

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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 0604805A: Command, Control, Communications Systems - Eng Dev		PROJECT 485: Info Standards Interop Eng/Joint Interop Cert		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1  Develop and update architecture standards and protocols necessary to ensure C4ISR systems interoperabilty.  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010  FY 2011 Base Plans: FY 2011 Base  FY 2011 OCO Plans: FY 2011 OCO		1.368	2.989	3.045	0.000	3.045
Program #2  Engineer, develop & publish Army Warfighter Information Standards (i.e. XML-USMTF/VMF,Wireless XML, database exchange, etc...) incorporating DoD standards requirements.  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010  FY 2011 Base Plans: FY 2011 Base		0.968	2.006	2.064	0.000	2.064

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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 #3  Identify, analyze, and provide solutions to gaps in technical architecture standards requirements.  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010  FY 2011 Base Plans: FY 2011 Base  FY 2011 OCO Plans: FY 2011 OCO				1.045	2.206	2.270	0.000	2.270
Program #4  Develop and engineer Army Net-Centric Enterprise Service standards and protocols supporting OSD Global Information Grid messaging requirements and serve as Army focal point for messaging working group.  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010				1.101	2.307	2.373	0.000	2.373

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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 #5  Knowledge Center Development - Build & update as necessary access to website repositories for key policies, directives, and architecture products.  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010  FY 2011 Base Plans: FY 2011 Base  FY 2011 OCO Plans: FY 2011 OCO				0.130	0.301	0.309	0.000	0.309
Program #6  Small Business Innovative Research/Small Business Technology Transfer Programs  FY 2009 Accomplishments: FY 2009				0.133	0.000	0.000	0.000	0.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Army				<b>DATE:</b> February 2010		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0604805A: <i>Command, Control, Communications Systems - Eng Dev</i>		<b>PROJECT</b> 485: <i>Info Standards Interop Eng/Joint Interop Cert</i>		
<b><u>B. Accomplishments/Planned Program (\$ in Millions)</u></b>						
		<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>
<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		4.745	9.809	10.061	0.000	10.061
<b><u>C. Other Program Funding Summary (\$ in Millions)</u></b> N/A						
<b><u>D. Acquisition Strategy</u></b> The efforts funded in this project are non-system specific, interoperability experimentation, evaluation and certification across multiple systems. The contractual efforts/services are obtained from existing competitive omnibus support service contracts.						
<b><u>E. Performance Metrics</u></b> 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.						

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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 0604805A: Command, Control, Communications Systems - Eng Dev				PROJECT 485: Info Standards Interop Eng/Joint Interop Cert					
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
Labor	C	USACECOM Fort Monmouth, NJ	27.746	4.745		9.809		0.000		9.809	Continuing	Continuing	0
Travel	C	USACECOM Fort Monmouth, NJ	0.457	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Subtotal			28.203	4.745		9.809		0.000		9.809			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
Development Support	C/CPFF	Arinc Fort Monmouth, NJ	5.699	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Development Support - 2	C/CPAF	Telos Fort Monmouth, NJ	4.581	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Development Support - 3	C/CPFF	CSC Fort Monmouth, NJ	1.963	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Development Support - 4	C/CPFF	C3I Fort Monmouth, NJ	1.374	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Development Support - 5	SS/CPFF	Mitre Fort Monmouth, NJ	0.280	0.000		0.000		0.000		0.000	Continuing	Continuing	0

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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 0604805A: Command, Control, Communications Systems - Eng Dev				PROJECT 485: Info Standards Interop Eng/Joint Interop Cert					
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	
Development Support/ Army Enterprise Applications Architecture	C	Binary Ft. Belvoir, VA	0.046	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Development Support-Knowledge Center	C	ITEL Ft Monmouth, NJ	1.198	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Development Support - 6	C	ITEL Ft Monmouth, NJ	2.640	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Development Support - 7	C	Northrop Grumman (SEC SSES) Ft Monmouth, NJ	2.579	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Technical Support	C/CPFF	TFE Fort Monmouth, NJ	0.095	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Technical Support - 2	C/CPFF	Marconi Fort Monmouth, NJ	0.183	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Equipment	C	USACECOM NJ	0.485	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Equipment (Development Support)	C/FFP	GTE Tauton, MA	0.106	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Telecommunications	C	USASC Fort Huachuca, AZ	1.145	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Subtotal			22.374	0.000		0.000		0.000		0.000			0.000	
Remarks														
*Contracts/awards cited are 5 year (1 base + 4 option years). Future award dates imply future competitive award, contractor TBD.														

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2011 Army</b>							<b>DATE:</b> February 2010					
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		<b>Total Prior Years Cost</b>	<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>		50.577	4.745		9.809		0.000		9.809			0.000
<b>Remarks</b>												

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Army								<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604805A: <i>Command, Control, Communications Systems - Eng Dev</i>				<b>PROJECT</b> 589: <i>ARMY SYS ENGINEERING &amp; WARFIGHTING TECH SUP</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
589: <i>ARMY SYS ENGINEERING &amp; WARFIGHTING TECH SUP</i>	4.877	48.930	10.100	0.000	10.100	10.151	10.207	10.117	11.130	Continuing	Continuing
Quantity of RDT&E Articles											
<b>A. Mission Description and Budget Item Justification</b> <p>This project has been re-aligned to better support the mission of Army Chief of Staff (CSA) sanctioned Army Architecture Integration Center (AAIC) for developing, implementing and maintaining the Army Enterprise Architecture for Information Technology based Command, Control, Computers &amp; Communications (C4/IT) systems. AAIC mission is to develop standards-based architecture products that are inter-operable within the Army as well as the with Joint, Interagency, and Multinational systems. This project funded the Army Systems Engineering Office (ASEO) by providing technical research and development and modeling and simulation with the primary mission of developing technical architecture standards without compromising DoD-mandated standards but ensuring Army C4/IT systems under development are interoperable with legacy systems still utilized by the Army warfighter, which extend from tactical levels up through operational and strategic components of the Army Battle Command Architecture (ABCA), as well as, the institutional portions of the Enterprise to include the Army's Business Enterprise Architecture (BEA). The ASEO supports the Army CIO/G6 Architecture Integration Center (AAIC) in establishing an integrated AEA framework that complements, and is a natural extension of, the GIG-Enterprise Services (GIG-ES). In addition, the ASEO is an essential contributor in the development of the JBMC2 integrated architecture, the Battle Command Architecture, and emerging Cross-Service Integrated Architecture efforts. Each of these architecture definition and integration efforts is elemental to achieving the Army's goal of a NetCentric Future Force. Previously, the Joint Technical Architecture (JTA) and JTA-Army (JTA-A) have provided the foundation for designing, building, fielding and supporting Joint interoperable Army systems in an expedient and cost-effective manner. With the revision to the standardization process as implemented by the Defense Information Systems Agency (DISA), technical architecture standards are encompassed in the new Defense Information Systems Repository (DISR) program. The Army must participate in DISR to ensure Army requirements are adequately captured and reflected in any new baseline developed by DISA. The ASEO identifies emerging standards in support of the integration of new technologies into existing Army systems and Advanced Technology Demonstrations/Advanced Concept Technology Demonstrations (ATD/ACTDs), enabling the Army transformation to the Future Force. The ASEO's work efforts in the development and maintenance of Army IT standards within the context of DISR guidelines are critical path elements to achieve transformation, increase joint interoperability and to provide the future Army with the ability to fight and win on tomorrow's battlefields. However, the Technical Architecture (TA) alone only provides the foundation for interoperability. Integrated Army Enterprise Architectures (e.g., ABCA, BEA, etc.) fuse Operational, Systems and Technical views of the Army Enterprise into cohesive and manageable information sets that allow the Army to make consequent decisions regarding the Army's inventory of present and future systems and their associated funding. In this area the ASEO specializes in defining and exploiting (through analysis) the relationships between architectural views to provide quantitative answers to complex questions regarding the Army's future capabilities and the roadmap the Army will pursue in realizing them. The allocated resources fund two support efforts for CIO/G6. First, subsequent to the development of the AKEA (Army Knowledge Enterprise Architecture) Guidance Document, V1.1, the effort has shifted to development of the Army Technical Reference Model (TRM) for information broker/mediation services, and mapping the Army's architecture requirements to DOD Net-Centric Operations and Warfare Reference Model, including NCES (Net-Centric Enterprise Services). Second, support of the design, development,</p>											

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deployment and maintenance of the AAIC (Army Architecture Integration Cell) Web-based Knowledge Center continues with increased development requirements and functionality, including the consolidation of architectural repositories, design of the DARS-A (Defense Architecture Repository-Army) database, and acting as the Army's agent for DARS/DARS-A.Joint Battle Command - Platforms (JBC-P), which includes Blue Force Tracking (BFT) and Army Aviation, provides true Joint force Command and Control (C2) Situational Awareness (SA) and communications (e.g., terrestrial, celestial) capability at the platform level through command center locations (e.g., Network Operations Centers (NOC), TOCs, Brigade Command Posts) and enables mission accomplishment across the entire spectrum of military operations. JBC-P serves as the cornerstone for Joint Blue Force Situational Awareness (JBFSa). It provides continuous near-real-time identification of friendly locations to populate the Joint Common Operating Picture (JCOP). JBC-P enhances Joint Combat Identification to increase combat effectiveness and reduce fratricide in a secure environment. It enables Joint, Net-Centric C2/Battle Command by seamlessly passing/sharing relevant information vertically and horizontally, within all levels of command, regardless of Service unit hierarchy. In addition to utilizing the FBCB2/BFT system, JBC-P system hardware consists of a family of computers (e.g., handhelds, tablets, ruggedized computers, beacons, and in-dash computers), communications equipment (e.g., satellite transceivers/antennas), encryption devices (e.g., KGV-72), and ancillary equipment (e.g., Mission Data Loader, Disc Duplicator, cables, installation kits, etc.).JBC-P RDTE Funding begins in FY10. FY10 RDTE funding is shown in this Program Element (654805) and Project No. (589).Beginning in FY11, JBC-P RDTE funding will be shown in Program Element 654805, Project No. 593.						
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #1		1.442	3.104	3.180	0.000	3.180
Analyze and provide Systems Engineering solutions to fill in gaps identified in C4ISR systems under development as well as fielded systems.						
FY 2009 Accomplishments: FY 2009						
FY 2010 Plans: FY 2010						
FY 2011 Base Plans: FY 2011 Base						
FY 2011 OCO Plans: FY 2011 OCO						

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Program #2  Identify unique Army requirements to influence Army/DoD Architecture Technical standards under new Defense information Systems Repository developed under Defense Information Systems Agency (DISA) oversight. Prior years: Technically influence the development/implementation of Joint Technical Architecture (JTA). FY03 accomplishments: JTA Versions 5.x, 6.0 restructured and aligned with Net-Centric Philosophy and redefined scope and standards applicability. Planned activities: JTA-A version 7.0, 7.5 to include major revision of Information Security Section, to include results of Tactical Imagery Transport Study  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010  FY 2011 Base Plans: FY 2011 Base  FY 2011 OCO Plans: FY 2011 OCO		0.176	0.417	0.416	0.000	0.416
Program #3  Investigate information technical standards for inclusion in DSR, Defense Standards Repository. Global Information Grid (GIG) Technologies (XML, JPEG 2000, MPEG 4, IPV6)  FY 2009 Accomplishments: FY 2009		0.181	0.312	0.312	0.000	0.312

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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  Research and incorporate applicable emerging open standards-based commercial technologies to influence future force systems. Ensure that open commercial standards adopted by Future Force enabling systems are reflected in the DISR baseline. Maintain subject matter expertise on DISR, Defense Standards Repository Information Technology (IT) standards' mandates to ensure current and future force systems remain interoperable. Ensure a logical and cost-effective evolution of TA baselines while maximizing Joint interoperability.  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010  FY 2011 Base Plans: FY 2011 Base  FY 2011 OCO Plans: FY 2011 OCO		0.732	1.458	1.458	0.000	1.458
Program #5		0.350	0.729	0.729	0.000	0.729

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
DISR Compliance Requirements -Ensure Program Managers have an executable and effective strategy for implementing the Army/DoD Technical Architecture standards.  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  Validate/Integrate Army Enterprise Technical Views to enable the Army Technical and Systems Architect (CIO/G6) to monitor, assess and control the inherent risks associated with leveraging continuously changing technologies across all Army Enterprise Functionals/PEO/Communities.  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010  FY 2011 Base Plans: FY 2011 Base		0.800	1.666	1.506	0.000	1.506

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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 #7  Provide systems analysis for implementing IPv6 protocol across Army to ensure communications/data-sharing/ data-exchange between systems. Prior Years: As a result of the decision agreed to at the 19 Dec 02 AKEA, GOSC, direction of MU17 funding was realigned to support the Protocols Investigation for the Next Generation (PING) program. The PING supported current technology agreements with various technology developers such as HP, Cisco, Microsoft and Telecordia. In addition, PING represented the ARMY CIO/G6 office at various ASD (NII)/DoD CIO meetings discussing DoD IPv6 policy and Transisition Planning, participated with JITC at DISA's Def Interop Comm Exercise 2003 (DICE 2003) demonstrating IPv6 interoperability, active member of DoD IPv6 Test Bed evaluating and testing IPv6 benefits and trade-offs, first Army lab participating with North American IPv6 Task Forces MoonV6 initiative, drafted ARmy's Phase I IPv6 Transition plan and initial transition strategy to migrate Army systems and networks to native IPv6 by FY08 in compliance with DoD policy,prepared evaluation criteria for selecting early IPv6 adopter candidates in support of the Army GIO/G6 office, hosted first Army IPv6 data call to collect systems impact information and baseline on Army IPv6 transition plan, provided IPv6 technical guidance and knowledge to the Army acquisition community.  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010  FY 2011 Base Plans: FY 2011 Base		0.365	0.729	0.729	0.000	0.729

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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 #8  Define and exploit (through analysis) the relationships between architectural views to provide quantitative answers to complex questions regarding the Army's future capabilities and the roadmap the Army will pursue in realizing them.  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010  FY 2011 Base Plans: FY 2011 Base  FY 2011 OCO Plans: FY 2011 OCO		0.365	0.729	0.729	0.000	0.729
Program #9  Provide systems engineering solutions including techincal architectures for Army systems supporting Joint Blue Force Situational Awareness (JBFS A)initiative  FY 2009 Accomplishments: FY 2009		0.466	0.958	1.041	0.000	1.041

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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 #10  Develop Capabilities, Product Applications, Platform Interoperability, and System Services across the JBC-P family of systems, to include the development of capabilities to meet Key Performance Parameters (KPPs) and in support of Multi-Level Security Domains for Network, Users, and Information.  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	20.000	0.000	0.000	0.000
Program #11		0.000	12.500	0.000	0.000	0.000

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Perform Software/Systems Engineering in support of the development of JBC-P Capabilities, Applications, and Services, to include, but not limited to, Conducting Engineering Studies, Architecture Development (both Software and Network), Systems Analyses, Technical Readiness Assessments, Technical Interchange Meetings/ Events, and development of Related Reports and other deliverables.  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  Design, Develop, and Procure Prototypes for Platform Dismountable Product, Standalone Dismounted Handheld Product, Beacon Product, Embedded Encryption, and Satellite Transceiver.  FY 2009 Accomplishments: FY 2009  FY 2010 Plans: FY 2010		0.000	1.100	0.000	0.000	0.000

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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 #13  Develop and Conduct Integration Events		0.000	1.100	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 #14  PM FBCB2 Program Management		0.000	3.042	0.000	0.000	0.000
FY 2009 Accomplishments: FY 2009						

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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 #15  Small Business Innovative Research/Small Business Technology Transfer Programs		0.000	1.086	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						
Accomplishments/Planned Programs Subtotals		4.877	48.930	10.100	0.000	10.100

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<p><b><u>C. Other Program Funding Summary (\$ in Millions)</u></b> N/A</p> <p><b><u>D. Acquisition Strategy</u></b> The JBC-P program was Joint Requirements Oversight Council (JROC) approved in May 2008. The Acquisition Strategy Report (ASR) was approved in September 2009. An Acquisition Decision Memorandum, approving a Modified Milestone B and entry into the Engineering and Manufacturing Development phase, was issued in September 2009. RDTE funding for JBC-P begins in FY10. The FY10 JBC-P RDTE program funding is in this Program Element (654805) and Project Number (589). Beginning in FY11, JBC-P RDTE program funding will be shown in Program Element 654805, Project Number 593.</p> <p><b><u>E. Performance Metrics</u></b> Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.</p>		

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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
Government Systems Engineering Support	C	ASEO DCTS, PING/03 only, Fort Monmouth, NJ	19.667	1.953		6.030		0.000		6.030	Continuing	Continuing	0
Contract Support	C	C3ISGI Tinton Falls, NJ	3.080	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Contract Support - 2	C/FP	TRW Domingues Hills, CA	1.281	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Overhead	C	ASEO/WTS CECOM Fort Monmouth, NJ	1.422	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Contract Systems Engineering Support	C/FP	Battelle Alexandria, VA	0.354	0.000		0.000		0.000		0.000	Continuing	Continuing	0
System Development and Integration	C	PEO C3S PM TOCS, Fort Monmouth, NJ	0.025	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Travel	C	SEC USACECOM, Ft. Monmouth, NJ	0.095	0.025		0.025		0.000		0.025	Continuing	Continuing	0
Development Support	C	Northrop Grummon (SEC SSES) Ft. Monmouth, NJ	0.200	0.050		0.050		0.000		0.050	Continuing	Continuing	0
Contract Systems Engineering Support - 2	C/FP	SRI Menlo Park, CA	0.199	0.000		0.000		0.000		0.000	Continuing	Continuing	0
	C	SEC	3.468	0.856		0.856		0.000		0.856	Continuing	Continuing	0

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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
Labor (Internal Government)		USACECOM, Ft. Monmouth, NJ											
Equipment	C	USACECOM NJ	0.020	0.005		0.005		0.000		0.005	Continuing	Continuing	0
Development Support - 2	C	ITEL Mays Landing, NJ	0.200	0.050		0.050		0.000		0.050	Continuing	Continuing	0
Contract Support - 3	C/FP	Lockheed Martin Eatontown, NJ	0.545	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Development Support - Army Enterprise Applications Architecture	C	Binary Ft. Belvoir, VA	0.000	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Contract Support - 4	C	SAIC Falls Church, VA	1.811	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Contract Systems Engineering Support - 3	C/FP	SRC Atlanta, GA	0.612	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Contract Systems Engineering Support - 4	SS/FP	MITRE Tinton Falls, NJ	8.597	0.290		0.350		0.000		0.350	Continuing	Continuing	0
Systems Engineering and Integration	C	WTS - ISIO CECOM Fort Monmouth, NJ	2.341	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Contract Support - 5	C	Datron Simi Valley, CA	0.305	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Contract Systems Engineering Support - 5	C/FP	Gemini Billerica, MA	0.137	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Development Support- Knowledge Center	C	ITEL Mays Landing, NJ	0.849	0.000		0.000		0.000		0.000	Continuing	Continuing	0

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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	
Contract Support - 6	C	Rutgers University New Brunswick, NJ	0.528	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Contract Systems Engineering Support - 6	C/FP	Suntek Systems Eatontown, NJ	0.460	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Contract Systems Engineering Support - 7	C/FP	HTPi Shrewsbury, NJ	0.145	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Contract Support - 7	C	Telos Eatontown, NJ	0.024	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Engineering Support	C	ISEC Fort Huachuca, AZ	1.357	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Contract Support - 8	C	PTG/CACI Eatontown, NJ	0.026	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Contract Systems Engineering Support - 8	C/FP	Litton Reading, MA	0.490	0.240		0.240		0.000		0.240	Continuing	Continuing	0	
Contract Support - 9	C/FP	CSC Eatontown, NJ	1.746	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Contract Support - 10	C	BAE Tinton Falls, NJ	0.139	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Contract Support - 11	C/FP	Janus Research Group Appling GA	0.072	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
Contract Systems Engineering Support - 9	C/FPI	CSC Eatontown, NJ	17.948	1.468		2.500		0.000		2.500	Continuing	Continuing	0	
Contract Systems Engineering Support - 10	C/FP	GTE/BBN Cambridge, MA	0.960	0.000		0.000		0.000		0.000	Continuing	Continuing	0	

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<b>Product Development (\$ in Millions)</b> <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 &amp; Type</th> <th rowspan="2">Performing Activity &amp; 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>Travel - 2</td> <td>C</td> <td>ASEO/WTS CECOM Fort Monmouth, NJ</td> <td align="right">1.696</td> <td align="right">0.080</td> <td></td> <td align="right">0.080</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.080</td> <td>Continuing</td> <td>Continuing</td> <td align="right">0</td> </tr> <tr> <td>Development of software based VOIP</td> <td>C/TBD</td> <td>Nothing entered for Activity and Location. Location could not be determined.</td> <td align="right">2.400</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>JBC-P Software Development</td> <td>C/TBD</td> <td>TBD Location could not be determined.</td> <td align="right">0.000</td> <td align="right">20.000</td> <td></td> <td align="right">37.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">37.000</td> <td>Continuing</td> <td>Continuing</td> <td align="right">0</td> </tr> <tr> <td>JBC-P Software/Systems Engineering</td> <td>C/TBD</td> <td>TBD Location could not be determined.</td> <td align="right">0.000</td> <td align="right">12.500</td> <td></td> <td align="right">24.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">24.000</td> <td>Continuing</td> <td>Continuing</td> <td align="right">0</td> </tr> <tr> <td>JBC-P Hardware Development</td> <td>C/TBD</td> <td>TBD Location could not be determined.</td> <td align="right">0.000</td> <td align="right">1.100</td> <td></td> <td align="right">2.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">2.000</td> <td>Continuing</td> <td>Continuing</td> <td align="right">0</td> </tr> <tr> <td align="right" colspan="3"><b>Subtotal</b></td><td align="right">73.199</td><td align="right">38.617</td><td></td><td align="right">73.186</td><td></td><td align="right">0.000</td><td></td><td align="right">73.186</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	Travel - 2	C	ASEO/WTS CECOM Fort Monmouth, NJ	1.696	0.080		0.080		0.000		0.080	Continuing	Continuing	0	Development of software based VOIP	C/TBD	Nothing entered for Activity and Location. Location could not be determined.	2.400	0.000		0.000		0.000		0.000	Continuing	Continuing	0	JBC-P Software Development	C/TBD	TBD Location could not be determined.	0.000	20.000		37.000		0.000		37.000	Continuing	Continuing	0	JBC-P Software/Systems Engineering	C/TBD	TBD Location could not be determined.	0.000	12.500		24.000		0.000		24.000	Continuing	Continuing	0	JBC-P Hardware Development	C/TBD	TBD Location could not be determined.	0.000	1.100		2.000		0.000		2.000	Continuing	Continuing	0	<b>Subtotal</b>			73.199	38.617		73.186		0.000		73.186			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																																																																																																												
Travel - 2	C	ASEO/WTS CECOM Fort Monmouth, NJ	1.696	0.080		0.080		0.000		0.080	Continuing	Continuing	0																																																																																																									
Development of software based VOIP	C/TBD	Nothing entered for Activity and Location. Location could not be determined.	2.400	0.000		0.000		0.000		0.000	Continuing	Continuing	0																																																																																																									
JBC-P Software Development	C/TBD	TBD Location could not be determined.	0.000	20.000		37.000		0.000		37.000	Continuing	Continuing	0																																																																																																									
JBC-P Software/Systems Engineering	C/TBD	TBD Location could not be determined.	0.000	12.500		24.000		0.000		24.000	Continuing	Continuing	0																																																																																																									
JBC-P Hardware Development	C/TBD	TBD Location could not be determined.	0.000	1.100		2.000		0.000		2.000	Continuing	Continuing	0																																																																																																									
<b>Subtotal</b>			73.199	38.617		73.186		0.000		73.186			0.000																																																																																																									
<b>Remarks</b>																																																																																																																						

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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 0604805A: Command, Control, Communications Systems - Eng Dev				PROJECT 589: ARMY SYS ENGINEERING & WARFIGHTING TECH SUP					
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	
JBC-P PM Office Support	C	Nothing entered for Activity and Location. Location could not be determined.	0.000	1.010		1.000		0.000		1.000	Continuing	Continuing	0	
JBC-P Matrix Support	C	Nothing entered for Activity and Location. Location could not be determined.	0.000	1.000		1.000		0.000		1.000	Continuing	Continuing	0	
JBC-P Miscellaneous Contractor Support	C/TBD	TBD Location could not be determined.	0.000	1.000		2.000		0.000		2.000	Continuing	Continuing	0	
Subtotal			0.000	3.010		4.000		0.000		4.000			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	
JBC-P Contractor Test Support	C/TBD	TBD Location could not be determined.	0.000	1.100		2.000		0.000		2.000	Continuing	Continuing	0	

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2011 Army</b>											<b>DATE:</b> February 2010																																												
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604805A: <i>Command, Control, Communications Systems - Eng Dev</i>				<b>PROJECT</b> 589: <i>ARMY SYS ENGINEERING &amp; WARFIGHTING TECH SUP</i>																																															
<b>Test and Evaluation (\$ in Millions)</b> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <tr> <th colspan="4"></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 colspan="3"></th> </tr> <tr> <th>Cost Category Item</th> <th>Contract Method &amp; Type</th> <th>Performing Activity &amp; Location</th> <th>Total Prior Years Cost</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Cost To Complete</th> <th>Total Cost</th> <th>Target Value of Contract</th> </tr> <tr> <td align="right" colspan="3"><b>Subtotal</b></td> <td align="right">0.000</td> <td align="right">1.100</td> <td></td> <td align="right">2.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">2.000</td> <td></td> <td></td> <td align="right">0.000</td> </tr> </table>																		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	<b>Subtotal</b>			0.000	1.100		2.000		0.000		2.000			0.000
				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																																										
<b>Subtotal</b>			0.000	1.100		2.000		0.000		2.000			0.000																																										
<b>Remarks</b>																																																							
<table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <tr> <th colspan="3"></th> <th>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>Cost To Complete</th> <th>Total Cost</th> <th>Target Value of Contract</th> </tr> <tr> <td align="right" colspan="3"><b>Project Cost Totals</b></td> <td align="right">73.199</td> <td align="right">42.727</td> <td></td> <td align="right">79.186</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">79.186</td> <td></td> <td></td> <td align="right">0.000</td> </tr> </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	<b>Project Cost Totals</b>			73.199	42.727		79.186		0.000		79.186			0.000														
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																										
<b>Project Cost Totals</b>			73.199	42.727		79.186		0.000		79.186			0.000																																										
<b>Remarks</b>																																																							

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Army								<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604805A: <i>Command, Control, Communications Systems - Eng Dev</i>				<b>PROJECT</b> 593: <i>JOINT BATTLE COMMAND - PLATFORM (JBC-P)</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
593: <i>JOINT BATTLE COMMAND - PLATFORM (JBC-P)</i>	0.000	0.000	70.628	0.000	70.628	28.786	3.964	2.974	1.981	Continuing	Continuing
Quantity of RDT&E Articles											
<b>A. Mission Description and Budget Item Justification</b> Joint Battle Command - Platforms (JBC-P), which includes Blue Force Tracking (BFT) and Army Aviation, provides true Joint force Command and Control (C2) Situational Awareness (SA) and communications (e.g., terrestrial, celestial) capability at the platform level through command center locations (e.g., Network Operations Centers (NOC), TOCs, Brigade Command Posts) and enables mission accomplishment across the entire spectrum of military operations. JBC-P serves as the cornerstone for Joint Blue Force Situational Awareness (JBFSa). It provides continuous near-real-time identification of friendly locations to populate the Joint Common Operating Picture (JCOP). JBC-P enhances Joint Combat Identification to increase combat effectiveness and reduce fratricide in a secure environment. It enables Joint, Net-Centric C2/Battle Command by seamlessly passing/sharing relevant information vertically and horizontally, within all levels of command, regardless of Service unit hierarchy. In addition to utilizing the FBCB2/BFT system, JBC-P system hardware consists of a family of computers (e.g., handhelds, tablets, ruggedized computers, beacons, and in-dash computers), communications equipment (e.g., satellite transceivers/antennas), encryption devices (e.g., KGV-72), and ancillary equipment (e.g., Mission Data Loader, Disc Duplicator, cables, installation kits, etc.).JBC-P RDTE Funding begins in FY10. FY10 RDTE funding is shown in Progrm Element (654805) and Project No. (589).Beginning in FY11, JBC-P RDTE funding will be shown in this Program Element (654805) and Project No. (593)											
<b>B. Accomplishments/Planned Program (\$ in Millions)</b>											
						<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>	
Program #1  Develop Capabilities, Product Applications, Platform Interoperability, and System Services across the JBC-P family of systems, to include the development of capabilities to meet Key Performance Parameters (KPPs) and in support of Multi-Level Security Domains for Network, Users, and Information.  <i>FY 2009 Accomplishments:</i> FY 2009						0.000	0.000	28.000	0.000	28.000	

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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 0604805A: Command, Control, Communications Systems - Eng Dev	PROJECT 593: JOINT BATTLE COMMAND - PLATFORM (JBC-P)				
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  Perform Software/Systems Engineering in support of the development of JBC-P Capabilities, Applications, and Services, to include, but not limited to, Conducting Engineering Studies, Architecture Development (both Software and Network), System Analyses, Technical Readiness Assessments, Technical Interchange Meeting/Events, and development of Related Reports and other deliverables.		0.000	0.000	20.000	0.000	20.000
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		0.000	0.000	5.000	0.000	5.000

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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 0604805A: Command, Control, Communications Systems - Eng Dev	PROJECT 593: JOINT BATTLE COMMAND - PLATFORM (JBC-P)				
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Design, Develop and Procure Prototypes for Platform Dismountable Product, Standalone Dismounted Handheld Product, and Beacon Product, Embedded Encryption and Satellite Transceiver.  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  Develop and Conduct Integration Events (i.e., Tests and Assessments)  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	0.000	12.000	0.000	12.000

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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 0604805A: Command, Control, Communications Systems - Eng Dev				PROJECT 593: JOINT BATTLE COMMAND - PLATFORM (JBC-P)			
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Program #5						0.000	0.000	5.628	0.000	5.628	
FBCB2 Program 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											
Accomplishments/Planned Programs Subtotals						0.000	0.000	70.628	0.000	70.628	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• Ord. #1: OPA W61990	0.000	17.188	0.147	0.000	0.147	64.961	86.203	179.469	125.857	0	473.825
• Ord. #2: RDTE PE 654805, Proj. No. 589	0.000	37.710	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	37.710
• Ord. #3: RDTE PE 273759, Proj. No. 122	0.000	0.000	3.935	0.000	3.935	0.000	0.000	0.000	0.000	0	3.935
D. Acquisition Strategy											
The JBC-P program was Joint Requirements Oversight Council (JROC) approved in May 2008. RDTE funding for JBC-P begins in FY10. The Acquisition Strategy Report (ASR) was approved in September 2009. An Acquisition Decision Memorandum, approving a Modified Milestone B, and entry into the Engineering and Manufacturing Development phase, was											

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Army		<b>DATE:</b> February 2010
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604805A: <i>Command, Control, Communications Systems - Eng Dev</i>	<b>PROJECT</b> 593: <i>JOINT BATTLE COMMAND - PLATFORM (JBC-P)</i>

issued in September 2009.\$3.935 million for FY11 C2/SA Convergence is shown in Program Element 273759, Project Number 122.The FY10 JBC-P RDTE program funding is shown in Program Element 654805, Project Number 589.Beginning in FY11, JBC-P RDTE program funding will be shown in this Program Element (654804) and Project Number (593).

### 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.

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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 0604805A: Command, Control, Communications Systems - Eng Dev				PROJECT 593: JOINT BATTLE COMMAND - PLATFORM (JBC-P)					
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
Joint Battle Command - Platforms (JBC-P) development	C/TBD	TBD Location could not be determined.	0.000	0.000		30.000		0.000		30.000	Continuing	Continuing	0
JBC-P Software/System Engineering	C/TBD	TBD Location could not be determined.	0.000	0.000		20.000		0.000		20.000	Continuing	Continuing	0
Design, Develop, and Procure Hardware Prototypes	C/TBD	TBD Location could not be determined.	0.000	0.000		5.000		0.000		5.000	Continuing	Continuing	0
Subtotal			0.000	0.000		55.000		0.000		55.000			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
Government In- House System/Project Management	C	Aberdeen Proving Ground (APG) MD	0.000	0.000		2.000		0.000		2.000	Continuing	Continuing	0
Government Matrix System/Project Management	C	Aberdeen Proving Ground (APG) MD	0.000	0.000		1.000		0.000		1.000	Continuing	Continuing	0

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604805A: Command, Control, Communications Systems - Eng Dev				PROJECT 593: JOINT BATTLE COMMAND - PLATFORM (JBC-P)					
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
Contractor System/Project Management Support	C/TBD	TBD Location could not be determined.	0.000	0.000		2.628		0.000		2.628	Continuing	Continuing	0
Subtotal			0.000	0.000		5.628		0.000		5.628			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
Develop and Conduct Tests and Assessments	C/TBD	TBD Location could not be determined.	0.000	0.000		10.000		0.000		10.000	Continuing	Continuing	0
Subtotal			0.000	0.000		10.000		0.000		10.000			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			0.000	0.000		70.628		0.000		70.628			0.000

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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 0604805A: Command, Control, Communications Systems - Eng Dev			PROJECT 593: JOINT BATTLE COMMAND - PLATFORM (JBC-P)			
	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									

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