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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Army									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0203759A: Force XXI Battle Command, Brigade and Below (FBCB2)							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	-	3.935	-	-	-	-	-	-	-	0.000	3.935
122: JOINT BATTLE COMMAND - PLATFORM (JBC-P)	-	3.935	-	-	-	-	-	-	-	0.000	3.935

**Note**

Change Summary Explanation: FY11 RDTE funding of \$3.935 million is for Command and Control (C2)/Situational Awareness (SA) Convergence. It uses Project Code 122. FBCB2 RDTE Funding in FY09 and Prior used Project Code 120.

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

Force XXI Battle Command Brigade and Below (FBCB2) consists of FBCB2 and Joint Battle Command - Platforms (JBC-P) hardware and software.

The Force XXI Battle Command Brigade and Below (FBCB2) is a digital, battle command information system that provides integrated, on-the-move, timely, relevant battle command information to tactical combat, combat support and combat service support leaders and soldiers. FBCB2 incorporates state-of-the-art information technology to allow commanders to concentrate combat system effects rather than combat forces, enabling units to be both more survivable and more lethal. FBCB2 provides the capability to pass orders and graphics allowing the warfighter to visualize the commander's intent and scheme of maneuver. FBCB2 affords combat forces the capability to retain the tactical/operational initiatives under all mission, enemy, terrain, troops, and time available conditions to enable faster decisions, real/near-real-time communications and response. FBCB2 as a key component of the Army Battle Command System (ABCS), completes the information flow process from brigade to platform and across platforms within the brigade task force and across brigade boundaries. FBCB2 system provides a dual based capability consisting of both terrestrial (EPLRS) and satellite based (L-Band) systems. The system includes a Pentium based processor, display unit, keyboard, removable hard disk drive cartridge, and a platform specific installation kit. The satellite based system, more commonly known as Blue Force Tracking (BFT), includes an L-Band transceiver that employs commercial satellite services in lieu of tactical terrestrial radios. Currently over 88,000 total systems have been fielded with approximately 25,000 systems in support of Operation Enduring Freedom (OEF)/Operation Iraqi Freedom (OIF).

FBCB2 RDTE Funding for Project Code 120 ends in FY09.

\$3.935 million has been added to Project Code 122 for JBC-P Command and Control (C2)/Situational Awareness (SA) Convergence in FY11.

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B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	-	3.935	-	-	-
Current President's Budget	-	3.935	-	-	-
Total Adjustments	-	-	-	-	-
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Army								<b>DATE:</b> February 2011			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0203759A: <i>Force XXI Battle Command, Brigade and Below (FBCB2)</i>				<b>PROJECT</b> 122: <i>JOINT BATTLE COMMAND - PLATFORM (JBC-P)</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
122: <i>JOINT BATTLE COMMAND - PLATFORM (JBC-P)</i>	-	3.935	-	-	-	-	-	-	-	0.000	3.935
Quantity of RDT&E Articles											

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

Joint Battle Command - Platforms (JBC-P), which includes Blue Force Tracking 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, Theater Operation Commands (TOCs), Brigade Command Posts) and enables mission accomplishment across the entire spectrum of Joint 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). Joint Battle Command - Platforms (JBC-P) enhances Joint Combat Identification to increase combat effectiveness and reduces 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 existing 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, Disk Duplicator, cables, installation kits, etc.).

\$3.935 million is programmed for FY11 RDTE to pay for JBC-P C2/SA Convergence.

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
<b>Title:</b> Army/Marine Corps JBC-P C2/SA Convergence Implementation  <b>Articles:</b>  <b>Description:</b> JBC-P C2/SA Convergence  <b>FY 2011 Plans:</b> Army/Marine Corps JBC-P C2/SA Convergence Implementation. This is a key senior leader/JCIDS priority to increase operational capability and mission effectiveness.	-	3.935 0	-	-	-
<b>Accomplishments/Planned Programs Subtotals</b>	-	3.935	-	-	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2012 Army			<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0203759A: <i>Force XXI Battle Command, Brigade and Below (FBCB2)</i>	<b>PROJECT</b> 122: <i>JOINT BATTLE COMMAND - PLATFORM (JBC-P)</i>	

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

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• Joint Battle Cmd - Platform (JBC-P): <i>OPA W61990</i>	17.188	0.147	20.000	148.335	168.335		139.100	133.095	134.696	Continuing	Continuing
• Army Sys Engr & Warfighter Tech Spt: <i>RDTE 654805/589</i>	37.620									0.000	37.620
• Joint Battle Command - Platform: <i>RDTE 654804/593</i>		10.000	111.123		111.123		5.455	4.165	3.140	Continuing	Continuing

## D. Acquisition Strategy

The JBC-P program was Joint Requirements Oversight Council (JROC) approved in May 2008. RDTE funding for JBC-P began in FY10.

\$3.935 million in FY11 funding for Command and Control/Situational Awareness (C2/SA) Convergence was programmed under this PE (273759) under Project No. 122. Other RDTE funds for JBC-P were programmed in PE 654805, Project No. 589 (for FY10) and PE 654804, Project No. 593 (for FY11 and beyond).

Software Development will be primarily executed through a Memorandum Of Understanding/Memorandum of Agreement with the Army Research and Development Engineering Command (RDECOM) System Engineering Directorate (SED).

Hardware Procurement will be executed through a competitive contracting approach.

The current estimated Acquisition Schedule, as shown in the R-4 Forms, is based on the approved JBC-P Acquisition Strategy.

## 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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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2012 Army											<b>DATE:</b> February 2011		
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<b>Product Development (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>				
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	
Software/Systems Engineering	MIPR	SED, Redstone Arsenal:Huntsville, AL	-	3.935		-		-		-	0.000	3.935	0.000	
<b>Subtotal</b>			-	3.935		-		-		-	0.000	3.935	0.000	

  

			Total Prior Years Cost	<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			-	3.935		-		-		-	0.000	3.935	0.000

  

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2012 Army			<b>DATE:</b> February 2011		
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	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
System Requirements Review																												
Critical Design Review																												
Milestone C																												
Operational Test																												
Full Rate Production (FRP) Decision Review																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Army			<b>DATE:</b> February 2011
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
System Requirements Review	2	2010	2	2010
Critical Design Review	4	2010	4	2010
Milestone C	4	2011	4	2011
Operational Test	1	2012	2	2012
Full Rate Production (FRP) Decision Review	3	2012	3	2012

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