

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)								DATE February 1999			
BUDGET ACTIVITY 7 - Operational System Development				PE NUMBER AND TITLE 0203759A Force XXI Battle Command, Brigade & Below (FBCB2)				PROJECT D120			
COST (In Thousands)		FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D120	Force XXI Battle Command, Brigade & Below (FBCB2)	0	52121	44225	28876	19175	19111	9825	0	0	173333
<p>A. Mission Description and Budget Item Justification: The initial FBCB2 effort was developed under Program Element 0203758A, Project D374 as part of the Army's digitization initiative and was transferred to this Program Element for central management by the Program Executive Officer for Command, Control and Communications (PEO C3S)/PM FBCB2 beginning in FY 1999. The mission of FBCB2 is to field a Digital Battle Command information system that provides mounted tactical combat, combat support, and combat service support commanders, leaders and soldiers integrated, on-the-move, real-time/near real-time, battle command and information and situation awareness from brigade down to the soldier/platform level across all Battlefield Functional Areas (BFAs). FBCB2 is located in the mounted and dismounted maneuver (divisional, separate, heavy and light) calvary/reconnaissance and armored cavalry, mechanized infantry and aviation units; FBCB2 integrates Army Tactical Command and Control Systems (ATCCS) located within the brigade and battalion. Battlefield digitization allows the Army's primary weapons and battle command systems seamless battlefield architecture and digitized applique systems (computer with graphics display, global positioning system, communications link, and command and control software) required to field the first digitized division by FY 2000 and first digitized corps by FY 2004.</p> <p>FY 1998 Accomplishments: Program funded in Program Element 0203758A Project D374.</p> <p>FY 1999 Planned Program:</p> <ul style="list-style-type: none"> • 18834 Brigade and Below Command and Control software/hardware development/upgrades • 12866 Integration, Testing (FT2 & IOT&E) and Training • 9865 Systems Engineering and Architecture, Modeling and Simulation • 1276 ILS Management and Site Operations • 2900 Procure remaining Hardware for IOT&E (116 packages) • 5000 PM FBCB2 Program Management • 1380 Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs <p>Total 52121</p>											
Project D120		Page 1 of 5 Pages				Exhibit R-2 (PE 0203759A)					

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FY 2000 Planned Program:														
•	23039	Brigade and Below Command and Control software/hardware development/upgrades												
•	5862	Integration, Testing and Training												
•	10165	Systems Engineering and Architecture, Modeling and Simulation												
•	3159	ILS Management and Site Operations												
•	2000	PM FBCB2 Program Management												
Total	44225													
FY 2001 Planned Program:														
•	14422	Brigade and Below Command and Control new software capabilities												
•	2982	Integration, Testing and Training												
•	9462	Systems Engineering and Architecture												
•	1103	ILS Management and Site Operations												
•	907	PM FBCB2 Program Management												
Total	28876													
B. Program Change Summary					<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>						
Previous President's Budget (FY 1999 PB)					0	52469	47000	30000						
Appropriated Value						52469								
Adjustments to Appropriated Value														
a.	Congressional General Reductions					-348								
b.	SBIR / STTR													
c.	Omnibus or Other Above Threshold Reductions													
d.	Below Threshold Reprogramming													
e.	Rescissions													
Adjustments to Budget Years Since FY 1999 PB							-2775	-1124						
Current Budget Submit (FY 2000 / 2001 PB)					0	52121	44225	28876						
C. Other Program Funding Summary					<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To Compl	Total Cost
Other Procurement Army Activity 2 SSN W61900					0	0	66423	62140	81832	110418	157273	168352	Cont.	Cont.
OMA, PE 423829							400	1000	2400	5600	5600	5600	Cont.	Cont.
Project D120					Page 2 of 5 Pages				Exhibit R-2 (PE 0203759A)					

UNCLASSIFIED

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D. Acquisition Strategy: The primary goal of the FBCB2 acquisition is to minimize the time, cost, and technology risks of satisfying requirements while providing a capability that is fully integrated with the overall Division's warfighting capabilities. The technical approach involves the incorporation of digital communications, situation awareness and digital message traffic capabilities in a variety of embedded and non-embedded platforms. These platforms are then connected through communications infrastructure provided by the Tactical Internet. Interoperability is provided through the use of graphics, images common messages and data elements. The interfaces between FBCB2 and ATCCS systems will provide users at all levels a common picture of their battlespace. The Program Executive Office for Command, Control and Communications (PEO C3S) is responsible for executing the FBCB2, ATCCS, communications infrastructure, and weapon platforms.

E. Schedule Profile	<u>FY 1996</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Version 3.0 FBCB2 Software Delivery				2Q						
Version 3.1 FBCB2 Software Delivery				3Q						
Force Development Test & Evaluation				4Q						
Initial Operational Test & Evaluation (IOT&E)					1Q					
Milestone III Decision					2Q					
Production Contract Award					2Q					
Version 4.0 FBCB2 Software Delivery					3Q					
First Digitized Division (FDD)					4Q					
Version 4.2 FBCB2 Software Delivery						2Q				
Initial Operational Capability (IOC)						2Q				
Version 4.4 FBCB2 Software Delivery							3Q			
Field First Cavalry - Complete							4Q			
Field First Digitized CORPS – Start - Complete							Start 1Q		End 4Q	
Army Pre-position Stock – Start - Complete									Start 1Q	End 4Q
Field 3 rd Infantry Division – Start- Complete									Start 1Q	End 4Q
Field 101 st Air Mobile – Start - Complete									Start 1Q	End 4Q

UNCLASSIFIED

ARMY RDT&E COST ANALYSIS (R-3)

DATE **February 1999**

BUDGET ACTIVITY
7 - Operational System Development

PE NUMBER AND TITLE
0203759A Force XXI Battle Command, Brigade & Below (FBCB2)

PROJECT
D120

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Software Development	CPIF	TRW, LA, CA		37841	Jun 99	42225	Jun 00	17953	Jun 01	0	98019	169800
b. Hardware Development	FFP	TRW, LA, CA		2900	Jun 99	0	N/A	0	N/A	0	2900	5900
c. Software Upgrade	CFIF	TRW, LA, CA	0	0	N/A	0	N/A	10016	N/A	Cont.	10016	Cont.
Subtotal Product Development:				40741		42225		27969			110935	Cont.

Remark: Previously funded under Program Element 0203758A, Project D374 funding line of the Army Digitization Office (ADO).

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. PM Office Support	N/A	CECOM, Ft. Monmouth, NJ		2605	Oct 98	1000	Oct 99	450	Oct 00	Cont.	4055	Cont.
b. Matrix Support	MIPR	CECOM, Ft. Monmouth, NJ		887	Oct 98	350	Oct 99	170	Oct 00	Cont.	1407	Cont.
c. Misc. Contracts Support	MIPR/PWD	CECOM, Ft. Monmouth, NJ		1508	Oct 98	650	Oct 99	287	Oct 00	Cont.	2445	Cont.
Subtotal Support Costs:				5000		2000		907			7907	Cont.

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Other Gov't Agency	MIPR	Various		5000							5000	
b. DTE*		Ft. Hood, TX										
c. IOTE*		Ft. Hood, TX										
Subtotal Test and Evaluation:				5000							5000	

Remark: *These efforts are funded by OPTEC.

UNCLASSIFIED

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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. SBIR/STTR	N/A			1380							1380	
Subtotal Management Services:				1380							1380	

Project Total Cost:				52121		44225		28876			125222	Cont.
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Remark: *Previously funded under Program Element 0203758A, Project D374.

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