

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)								June 2001		
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV				PE NUMBER AND TITLE 0203759A - Force XXI Battle Command, Brigade and Below (FBCB2)				PROJECT 120		
COST (In Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
120 FORCE XXI BATTLE CMD, BRIGADE & BELOW (FBCB2)	66921	64009	56872	0	0	0	0	0	0	0

A. Mission Description and Budget Item Justification:
PLEASE NOTE: This administration has not addressed FY2003-2007 requirements. All FY 2003-2007 budget estimates included in this book are notional only and subject to change.

The mission of PM FBCB2 is to develop, acquire, test, and field a digital information system that provides integrated, on-the-move, real-time/near real-time, situational awareness and command and control information to all tactical combat, combat support, and combat service support commanders, leaders, and soldiers. This capability will be fielded from brigade down to the soldier level across all Battlefield Functional Areas (BFAs), including other division and corp elements necessary to support brigade operations. FBCB2 will be integrated into the mounted and dismounted maneuver (divisional, separate, heavy and light), calvary/reconnaissance and armored cavalry, mechanized infantry, and aviation units. PM FBCB2 is developing and delivering the Applique (computer, software, and installations kits) and FBCB2 (software) products integrated into various platforms. Battlefield digitization allows the Army's primary weapons and battle command systems to see, acquire, and engage threats while sharing the same information, using advanced technologies and digital communications. These platforms are connected through a communications infrastructure called the Tactical Internet. Interoperability is accomplished through the use of joint standard message formats for the exchange of overlays, orders, and command and control messages/Situational Awareness. The FBCB2 system and tactical internet provide the power of the network to share Situational Awareness (SA) and Command and Control (C2) information, promoting an efficient use of resources within the enemy's decision cycle. FBCB2 is integrated with Army Tactical Command and Control Systems (ATCCS) located within the brigades and battalions. The interfaces between FBCB2 and ATCCS systems will provide users at all levels a common picture of their battlespace. This seamless digitization (a computer with a graphics display, global positioning system, communications link, and command and control software) will be applied across the Army. FY02/03 dollars will further develop and test the FBCB2 software. The funding will also support IOT&E, LUT3, and Milestone III, as well as supporting the fielding of ICAV and 1st & 2nd IBCTs.

This system supports the legacy to objective transition path of the Transformation Campaign Plan (TCP).

FY 2000 Accomplishments

- 13963 System Engineering
- 7757 Contractor System Integration and Testing
- 4868 Integrated Logistics Support, Speciality Engineering, and Training
- 1420 Site Operations

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

June 2001

BUDGET ACTIVITY

7 - OPERATIONAL SYSTEMS DEV

PE NUMBER AND TITLE

0203759A - Force XXI Battle Command, Brigade and Below (FBCB2

PROJECT

120

FY 2000 Accomplishments (Continued)

- 14133 Software Development
- 1870 Hardware Design and Management
- 9423 Government Testing: Electronic Proving Ground (EPG), Army Test & Evaluation Command (ATEC), and Customer Testing (CT)
- 2133 Central Technical Support Facility (CTSF) - Horizontal Integration, testing, and training
- 4177 Time and Material efforts
- 7177 PM FBCB2 Program Management

Total 66921

FY 2001 Planned Program

- 13748 System Engineering
- 8515 Contractor System Integration and Testing
- 5020 Integrated Logistics Support, Specialty Engineering, and Training
- 10206 Software Development
- 16730 Government testing (EPG,ATEC)
- 1339 Site Operations
- 1507 Time & Material Efforts
- 4091 PM FBCB2 Program Management
- 1000 Tactical Navigation Electronic Digital Compass System
- 1853 SBIR/STRR

Total 64009

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

June 2001

BUDGET ACTIVITY

7 - OPERATIONAL SYSTEMS DEV

PE NUMBER AND TITLE

0203759A - Force XXI Battle Command, Brigade and Below (FBCB2

PROJECT

120

FY 2002 Planned Program

- 10698 System Engineering
- 3664 Contractor System Integration and Testing
- 1299 Integrated Logistics Support, Specialty Engineering, and Training
- 764 Site Operations
- 11995 Software Development
- 22300 Government Testing: EPG and Army Test & Evaluation Command (ATEC)
- 1450 Time and Material Efforts
- 4702 PM FBCB2 Program Management

Total 56872

<u>B. Program Change Summary</u>	FY 2000	FY 2001	FY 2002	FY 2003
Previous President's Budget (FY2001 PB)	65176	63601	37699	0
Appropriated Value	65925	64601	0	0
Adjustments to Appropriated Value	0	0	0	0
a. Congressional General Reductions	0	-452	0	0
b. SBIR / STTR	-1755	0	0	0
c. Omnibus or Other Above Threshold Reduction	-270	0	0	0
d. Below Threshold Reprogramming	3500	0	0	0
e. Rescissions	-479	-140	0	0
Adjustments to Budget Years Since FY2001 PB	0	0	19173	0
Current Budget Submit (FY 2002/2003 PB)	66921	64009	56872	0

FY00: \$3.5M was for the Joint Contingency Force (JCF) Advanced Warfighting Experiments (AWE).

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

June 2001

BUDGET ACTIVITY

7 - OPERATIONAL SYSTEMS DEV

PE NUMBER AND TITLE

0203759A - Force XXI Battle Command, Brigade and Below (FBCB2)

PROJECT

120

FY01: \$1M for the Tactical Navigation Electronic Digital Compass System. (Congressional plus-up)

FY02: \$9M increase FY02 for LUT3

FY02: \$10M increase FY 02 for Testing and other development efforts

C. Other Program Funding Summary	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Compl	Total Cost
Other Procurement Army Activity 2 SSN W61900	66179	62161	74663	0	0	0	0	0	0	0
Other Procurement Army Activity 4 SSN BS9736 (Spares)	0	886	1397	0	0	0	0	0	0	0

D. Acquisition Strategy: Spiral development is the overall FBCB2 software acquisition strategy. It is based on proving functional capabilities through numerous incremental testing events over time, and incorporating results/feedback into the next "spiral". The current competitive contract, awarded in 1995, is a Systems Engineering and Integration (SE&I) effort, with cost plus incentive fees, time, materials, and firm fixed price orders. The contract is for the development of software versions V1-V3, prototype computers, and associated hardware. The follow-on SE&I contract was awarded in FY01 for software versions V3.5. This synchronizes the FBCB2 software with ABCS 7.0. A Low Rate Initial Production (LRIP) Firm Fixed Incentive Target Fee (FFITF) contract was awarded in January 2000 with OPA funds. The LRIP permits establishment of a robust production base and an orderly increase in production sufficient to lead to Full Rate Production upon successful completion of operational testing. The Full Rate Production option will be awarded in 1QFY03 following a Milestone III decision. FBCB2 is integrated with the Army Tactical Command and Control System (ATCCS) located within the brigades and battalions. The interfaces between FBCB2 and ATCCS systems will provide users at all levels a common picture of their battlespace. PM FBCB2 is the designated lead on the development of the Common Card which is intended to facilitate the integration of FBCB2 into certain weapon system platforms such as Abrams and Bradley.

E. Schedule Profile	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Version 3.2 FBCB2 Software Delivery	1Q			0	0	0	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)

June 2001

BUDGET ACTIVITY

7 - OPERATIONAL SYSTEMS DEV

PE NUMBER AND TITLE

0203759A - Force XXI Battle Command, Brigade and Below (FBCB2

PROJECT

120

<u>E. Schedule Profile (continued)</u>	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007
Production Contract Award (LRIP)	2Q			0	0	0	0	0
Force Development Test & Evaluation/Customer Test	3Q			0	0	0	0	0
Version 3.3 FBCB2 Software Delivery	4Q			0	0	0	0	0
Equip 4TH ID	3Q	1Q		0	0	0	0	0
Bradley/Abrams IOTE/FOTE		1Q		0	0	0	0	0
DCXI/LUT2		3Q		0	0	0	0	0
Follow on SE&I Contract Award		3Q		0	0	0	0	0
Version 3.4 FBCB2 Software Delivery		3Q		0	0	0	0	0
Initial Operational Test & Evaluation (IOTE)			1Q	0	0	0	0	0
LUT 3			2Q	0	0	0	0	0
Version 3.5 FBCB2 S/W Delivery			2Q	0	0	0	0	0
Milestone III Decision/Full Rate Production Review			4Q	0	0	0	0	0
Full Rate Production Contract Award				0	0	0	0	0
Version 4.0 FBCB2 Software Delivery				0	0	0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV					PE NUMBER AND TITLE 0203759A - Force XXI Battle Command, Brigade and Below (FBCB2)					PROJECT 120		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . SE/SW Development	CPIF	TRW, LA, CA	282453	40335	1Q	29870	1Q	0	0	0	0	0
b . Hardware Development	FFP	TRW, LA, CA.	5478	0		0		0	0	0	0	0
c . Tactical Navigation Electronic Digital Compass System			0	1000		0		0	0	0	0	0
Subtotal:			287931	41335		29870		0		0	0	0
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . PM Office Support	N/A	CECOM, Ft. Monmouth	3599	1443	1Q	1406		0	0	0	0	Continue
b . Matrix Support	MIPR	CECOM, Ft. Monmouth	1097	194	1Q	271		0	0	0	0	Continue
c . Misc. Contracts Support	MIPR/PWD	CECOM, Ft. Monmouth	8499	2454	1Q	3025		0	0	0	0	Continue
d . SBIR/STRR	Taxes	DA	0	1853		0		0	0	0	0	0
Subtotal:			13195	5944		4702		0		0	0	Continue

ARMY RDT&E COST ANALYSIS(R-3)									June 2001			
BUDGET ACTIVITY 7 - OPERATIONAL SYSTEMS DEV					PE NUMBER AND TITLE 0203759A - Force XXI Battle Command, Brigade and Below (FBCB2					PROJECT 120		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . CTSF	MIPR	CTSF	2133	0	1Q	0		0	0	0	0	0
b . ATEC	MIPR	ATEC	4800	11100	1Q	22170		0	0	0	0	0
c . EPG	MIPR	EPG	6307	5630	1Q	130		0	0	0	0	0
d . Other	MIPR	Misc	398	0		0		0	0	0	0	0
Subtotal:			13638	16730		22300		0		0	0	0
Remarks: Includes PBD 290 funding, 9M in ATEC for LUT 3												
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2001 Cost	FY 2001 Award Date	FY 2002 Cost	FY 2002 Award Date	FY 2003 Cost	FY 2003 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0
Project Total Cost:			314764	64009		56872		0		0	0	Continue