Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army									DATE: February 2012	

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	PE 0203726A: *Adv Field Artillery Tactical Data System*

COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	23.812	29.500	32.556	-	32.556	33.014	30.238	28.483	28.531	Continuing	Continuing
322: *Adv Fa Tac Data Sys/Eff Cntrl Sys (AFATDS/ECS)*	18.202	18.011	23.961	-	23.961	22.088	19.877	18.967	19.148	Continuing	Continuing
F19: *JADOCS*	5.610	11.489	8.595	-	8.595	10.926	10.361	9.516	9.383	Continuing	Continuing

Note

The decreases in FY 2011 of $0.810 million and FY 2012 of $0.046 million was a result of changes in budget position.

The increase in FY 2013 funding of $5.000 million is to fund requirements for GPS-based Precision Guided Munitions (PGMs) require pre-launch loading of sufficient GPS Satellite related data down at the Weapon Platform level to enable Precision Capable?Fires. The increase of $3.108 million is to fund requirements for Joint Automated Deep Operation Coordination System (JADOCS) Capability Production Document (CPD) which is currently being staffed at Joint Requirements Oversight Council (JROC).

A. Mission Description and Budget Item Justification

The Advanced Field Artillery Tactical Data System (AFATDS) automates fire support planning and coordination for the Army, Navy, and Marine Corps. AFATDS automates the planning, coordinating and controlling of all fire support assets in the Joint battlespace (field artillery, mortars, close air support, naval gunfire, attack helicopters, and offensive electronic warfare) from Echelons Above Corps to Battery or Platoon in support of all levels of conflict. As a result of Operation Iraqi Freedom (OIF)/Operation Enduring Freedom (OEF), AFATDS has implemented precision fires capabilities in new/improved munitions such as Multiple Launch Rocket System (MLRS) Unitary Vertical Attack, Excalibur, Smart and 155 Bonus. Additional implemented capabilities include automatic conduct of Unit Fratricide Avoidance Checks and Collateral Damage Avoidance. AFATDS will interoperate with the other Army Battle Command Systems, current and future Army, Navy and USAF Command and Control weapon systems, and the German, French, Turkish, and Italian fire support systems. The system is composed of common hardware/software employed in varying configurations at different operational facilities (or nodes) and unique system software interconnected by tactical communications in the form of a software-driven, automated network. The system is currently fielding non-developmental, rugged common hardware, running the Windows Operating System. The total force will be fielded a Windows based platform by fiscal year 2013.

Joint Automated Deep Operations Coordination System (JADOCS) is a Joint, Interagency, and Multinational (JIM) Targeting, Mission Management, and Common Operational Picture (COP) Windows based software suite which functions as a complementary system to the AFATDS. JADOCS provides integration and synergy between multiple Command & Control (C2) systems of the uniformed services, and Joint and combined elements involved in the targeting process and performs coordination and calculates collateral damage. JADOCS Mission Managers support this coordination amongst Warfighter functional areas to rapidly execute critical missions. JADOCS is a component of the Integrated Fires Family of Systems (FOS) and complementary to the Army Battle Command Systems (ABCS) System of Systems (SoS).

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Exhibit R-2, **RDT&E Budget Item Justification:** PB 2013 Army	**DATE:** February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0203726A: *Adv Field Artillery Tactical Data System*

GPS-based Precision Guided Munitions (PGMs) require pre-launch loading of sufficient GPS Satellite related data down at the Weapon Platform level to enable Precision Capable?Fires. This hot?start capability allows for rapid post-launch time-to-first-fix of GPS signal and maximum utilization of PGM maneuver authority to insure required target engagement performance. This is especially critical for short times of flight and steer-early solutions such as Mortar and Cannon based PGMs. Local GPS Satellite visibility challenges due vertical terrain/complex environment issues during normal combat operations can prohibit ?Precision Capable? Fires when using GPS Satellite data generated exclusively at the Firing Weapon Platform.   A system-of-systems Network Assisted GPS capability will be developed, integrated, and validated to overcome local GPS Satellite masking problems through the sharing of sufficient timely required GPS Satellite data via Wide-Area Network (WAN) and Local-Area Network (LAN) based materiel solutions that effectively and efficiently leverage mature Technologies and sunk taxpayer investments of existing Programs of Record.

B. Program Change Summary ($ in Millions)	**FY 2011**	**FY 2012**	**FY 2013 Base**	**FY 2013 OCO**	**FY 2013 Total**
Previous President's Budget	24.622	29.546	24.448	-	24.448
Current President's Budget	23.812	29.500	32.556	-	32.556
Total Adjustments	-0.810	-0.046	8.108	-	8.108
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments 1	-0.810	-0.046	-	-	-
• Other Adjustments 2	-	-	5.000	-	5.000
• Other Adjustments 3	-	-	3.108	-	3.108

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*				R-1 ITEM NOMENCLATURE PE 0203726A: *Adv Field Artillery Tactical Data System*					PROJECT 322: *Adv Fa Tac Data Sys/Eff Cntrl Sys (AFATDS/ECS)*	

COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
322: *Adv Fa Tac Data Sys/Eff Cntrl Sys (AFATDS/ECS)*	18.202	18.011	23.961	-	23.961	22.088	19.877	18.967	19.148	Continuing	Continuing
Quantity of RDT&E Articles											

Note

Not applicable for this item.

A. Mission Description and Budget Item Justification

The Advanced Field Artillery Tactical Data System (AFATDS) automates fire support planning and coordination for the Army, Navy, and Marine Corps. AFATDS automates the planning, coordinating and controlling of all fire support assets in the Joint battlespace (field artillery, mortars, close air support, naval gunfire, attack helicopters, and offensive electronic warfare) from Echelons Above Corps to Battery or Platoon in support of all levels of conflict. As a result of Operation Iraqi Freedom (OIF)/Operation Enduring Freedom (OEF), AFATDS has implemented precision fires capabilities in new/improved munitions such as Multiple Launch Rocket System (MLRS) Unitary Vertical Attack, Excalibur, Smart and 155 Bonus. Additional implemented capabilities include automatic conduct of Unit Fratricide Avoidance Checks and Collateral Damage Avoidance. AFATDS will interoperate with the other Army Battle Command Systems, current and future Army, Navy and USAF Command and Control weapon systems, and the German, French, Turkish, and Italian fire support systems. The system is composed of common hardware/software employed in varying configurations at different operational facilities (or nodes) and unique system software interconnected by tactical communications in the form of a software-driven, automated network. The system is currently fielding non-developmental, rugged common hardware, running the Windows Operating System. The total force will be fielded a Windows based platform by fiscal year 2013.

GPS-based Precision Guided Munitions (PGMs) require pre-launch loading of sufficient GPS Satellite related data down at the Weapon Platform level to enable ?Precision Capable? Fires. This ?hot? start capability allows for rapid post-launch time-to-first-fix of GPS signal and maximum utilization of PGM maneuver authority to insure required target engagement performance. This is especially critical for short times of flight and steer-early solutions such as Mortar and Cannon based PGMs. Local GPS Satellite visibility challenges due vertical terrain/complex environment issues during normal combat operations can prohibit ?Precision Capable? Fires when using GPS Satellite data generated exclusively at the Firing Weapon Platform.   A system-of-systems Network Assisted GPS capability will be developed, integrated, and validated to overcome local GPS Satellite masking problems through the sharing of sufficient timely required GPS Satellite data via Wide-Area Network (WAN) and Local-Area Network (LAN) based materiel solutions that effectively and efficiently leverage mature Technologies and sunk taxpayer investments of existing Programs of Record.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)

	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: Program Support Costs for AFATDS software development	1.087	0.905	0.919	-	0.919
Articles:	0	0			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0203726A: *Adv Field Artillery Tactical Data System*	PROJECT 322: *Adv Fa Tac Data Sys/Eff Cntrl Sys (AFATDS/ECS)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Description: Provide program support for AFATDS software development efforts for Versions 6.7, 6.8, and 6.8.X *FY 2011 Accomplishments:* Funded program support for AFATDS software development efforts *FY 2012 Plans:* Continue program support for AFATDS software development efforts *FY 2013 Base Plans:* Future program support for AFATDS software development efforts					
Title: AFATDS software development efforts costs Articles: *Description:* Complete development of Versions 6.7 and 6.8. Intitate development of 6.8.X *FY 2011 Accomplishments:* Complete AFATDS software development versions 6.7 and continue AFATDS software development version 6.8. *FY 2012 Plans:* Complete AFATDS software development version 6.8 and initiate AFATDS software development version 6.8.X *FY 2013 Base Plans:* Continue AFATDS software development efforts for Version 6.8.X	14.6420	14.4560	15.167	-	15.167
Title: Network Assisted GPS for Precision Fires *Description:* Intitate development of Network Assisted GPS for Precision Fires. *FY 2013 Base Plans:* Definition of system architecture and standardized tactical GPS Satellite data exchange solutions. Initiate WAN and LAN based system-of-systems Network Assisted GPS capability for PGMs.	-	-	5.000	-	5.000
Title: Testing Articles:	2.4730	2.6500	2.875	-	2.875

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0203726A: *Adv Field Artillery Tactical Data System*	**PROJECT** 322: *Adv Fa Tac Data Sys/Eff Cntrl Sys (AFATDS/ECS)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Description: Conduct and support test activities					
FY 2011 Accomplishments: Conduct and support AFATDS test activities.					
FY 2012 Plans: Conduct and support AFATDS test activities.					
FY 2013 Base Plans: Conduct and support AFATDS test activities.					
Accomplishments/Planned Programs Subtotals	18.202	18.011	23.961	-	23.961

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• B28600: *ADV FA TAC DATA SYS*	17.216	2.851								0.000	20.067
• B28620: *MOD OF IN-SVC EQUIP, AFATDS*	35.408	37.070	35.556	6.260	41.816		10.310	10.206	10.383	Continuing	Continuing

D. Acquisition Strategy

AFATDS began fielding in 1996, with the original AFATDS Version 96 Materiel Release. It has been updated with subsequent releases reflecting the Spiral development strategy of the program. Full Materiel Release of AFATDS V6.6 (First Windows version) was achieved in June 2010. Full Materiel Release of AFATDS V6.7 was achieved in January 2011. AFATDS V6.8 is being developed and expects to achieve Full Materiel Release in 1Q FY2013.

Development efforts will continue to enhance Command and Control for precision weapons, Excalibur Height above Ellipsoid (HAE), Active Weapon Target pairing and Unexploded Ordnance (UXO) area computations. It will also provide backward interoperability to Pass and Subscribe Services (PASS) and AFATDS XML Engine (AXE) for Software Block 2 (SWB2) to enable connection to SWB1/1+ versions.

In April 2011, the program office presented a Capability Development Document (CDD) for the AFATDS Increment II development effort to the Joint Capabilities Board panel. In June 2011, the program received the final approval memorandum of the CDD from the Joint Requirements Oversight Council (JROC). Currently, the program office is working to achieve a Milestone B (MS B) decision. Upon completion of the MS B decision, the execution of the Increment II requirements as specified in the CDD will begin.

Exhibit R-2A, **RDT&E Project Justification:** PB 2013 Army		**DATE:** February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0203726A: *Adv Field Artillery Tactical Data System*	**PROJECT** 322: *Adv Fa Tac Data Sys/Eff Cntrl Sys (AFATDS/ECS)*

E. Performance Metrics

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

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army												DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*						**R-1 ITEM NOMENCLATURE** PE 0203726A: *Adv Field Artillery Tactical Data System*						**PROJECT** 322: *Adv Fa Tac Data Sys/Eff Cntrl Sys (AFATDS/ECS)*	

Management Services ($ in Millions)

				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	**Contract Method & Type**	**Performing Activity & Location**	**Total Prior Years Cost**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Program Management	SS/Various	PM Mission Command (MC):APG, MD	16.274	0.825		0.829		-		0.829	Continuing	Continuing	Continuing
		Subtotal	16.274	0.825		0.829		-		0.829			

Product Development ($ in Millions)

				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	**Contract Method & Type**	**Performing Activity & Location**	**Total Prior Years Cost**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Software Development	SS/CPAF	Raytheon Systems Corp.:Ft. Wayne, IN	311.020	4.155		-		-		-	0.000	315.175	310.361
Software Development	C/CPFF	TBD:TBD	-	10.301		15.167		-		15.167	Continuing	Continuing	Continuing
Network Assisted GPS for Precision Fires Development	C/TBD	TBD:TBD	-	-		5.000		-		5.000	Continuing	Continuing	0.000
		Subtotal	311.020	14.456		20.167		-		20.167			

Support ($ in Millions)

				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	**Contract Method & Type**	**Performing Activity & Location**	**Total Prior Years Cost**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Information Assurance	C/Various	CSC:Eatontown, NJ	0.340	0.035		-		-		-	0.000	0.375	0.375
Information Assurance	C/CPFF	TBD:TBD	-	0.045		0.090		-		0.090	Continuing	Continuing	Continuing
		Subtotal	0.340	0.080		0.090		-		0.090			

Test and Evaluation ($ in Millions)

				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	**Contract Method & Type**	**Performing Activity & Location**	**Total Prior Years Cost**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Test Support	C/BA	Titan and various contractors:Various Locations	3.418	0.745		-		-		-	0.000	4.163	5.055

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army												DATE: February 2012	

APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0203726A: *Adv Field Artillery Tactical Data System*	PROJECT 322: *Adv Fa Tac Data Sys/Eff Cntrl Sys (AFATDS/ECS)*

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test Support	C/CPFF	TBD:TBD	-	0.730		1.575		-		1.575	Continuing	Continuing	Continuing
Limited User Test/Government Confidence Demo	SS/BA	Army Test & Evaluation Command (ATEC)/ Fires Test Directorate (FTD):Various Locations	13.102	1.175		1.300		-		1.300	Continuing	Continuing	Continuing
Subtotal			16.520	2.650		2.875		-		2.875			

	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	344.154	18.011		23.961		-		23.961			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0203726A: *Adv Field Artillery Tactical Data System*	**PROJECT** 322: *Adv Fa Tac Data Sys/Eff Cntrl Sys (AFATDS/ECS)*

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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
Materiel Release V6.7 (CS 11 - 12)		■																										
Fielding V6.7 (CS 11 - 12)		■	■	■																								
Materiel Release V6.8 (CS 13 - 14)								■																				
Fielding V6.8 (CS 13 - 14)								■	■																			
Milestone (MS) B							■																					
Development and Testing V6.8.X (CS 15 - 16)					■	■	■	■	■	■	■	■	■															
Materiel Release V6.8.X (CS 15 - 16)														■														
Fielding V6.8.X (CS 15 - 16)														■	■													
Development and Testing V6.9 (CS 17 - 18)										■	■	■	■	■	■	■	■	■	■	■	■	■	■	■				
Materiel Release V6.9 (CS 17 - 18)																									■			
Fielding V6.9 (CS 17 - 18)																									■	■		
Development /Testing Network Assisted GPS for Precision Fires									■	■	■	■	■	■	■	■	■											
Materiel Release Network Assisted GPS for Precision Fires																		■										
Fielding Network Assisted GPS for Precision Fires																		■	■									

Exhibit R-4A, **RDT&E Schedule Details:** PB 2013 Army	**DATE:** February 2012	
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0203726A: *Adv Field Artillery Tactical Data System*	**PROJECT** 322: *Adv Fa Tac Data Sys/Eff Cntrl Sys (AFATDS/ECS)*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
Materiel Release V6.7 (CS 11 - 12)	2	2011	2	2011
Fielding V6.7 (CS 11 - 12)	2	2011	4	2011
Materiel Release V6.8 (CS 13 - 14)	1	2013	1	2013
Fielding V6.8 (CS 13 - 14)	1	2013	2	2013
Milestone (MS) B	4	2012	4	2012
Development and Testing V6.8.X (CS 15 - 16)	2	2012	4	2014
Materiel Release V6.8.X (CS 15 - 16)	1	2015	1	2015
Fielding V6.8.X (CS 15 - 16)	1	2015	2	2015
Development and Testing V6.9 (CS 17 - 18)	1	2014	4	2016
Materiel Release V6.9 (CS 17 - 18)	1	2017	1	2017
Fielding V6.9 (CS 17 - 18)	1	2017	2	2017
Development /Testing Network Assisted GPS for Precision Fires	1	2013	4	2015
Materiel Release Network Assisted GPS for Precision Fires	1	2016	1	2016
Fielding Network Assisted GPS for Precision Fires	1	2016	2	2016

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012	

APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0203726A: Adv Field Artillery Tactical Data System					PROJECT F19: JADOCS	

COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
F19: JADOCS	5.610	11.489	8.595	-	8.595	10.926	10.361	9.516	9.383	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Joint Automated Deep Operations Coordination System (JADOCS) is a Joint, Interagency, and Multinational (JIM) Targeting, Mission Management, and Common Operational Picture (COP) Windows-based software suite which functions as a complementary system to the Advanced Field Artillery Tactical Data System (AFATDS). JADOCS provides integration and synergy between multiple Command & Control (C2) systems of the uniformed services, and joint and combined elements involved in the targeting process and performs coordination and calculates collateral damage. JADOCS Mission Managers support this coordination amongst Warfighter functional areas to rapidly execute critical missions. JADOCS enables coordination and de-confliction of conventional and asymmetric war-fighting missions. JADOCS uses a map-oriented Graphical User Interface (GUI) and overlays as a framework for information display. JADOCS is fielded to Air Force, Navy, Marine, and Army units involved in the targeting process at Echelons Above Corps, Corps, and Division. JADOCS provides the Combatant Commands with the capability to plan and direct theater counter-fire and precision strike operations through the real time synchronization of US and Coalition assets. The application provides the Warfighter with a combination of tools, services and Mission Managers for rapid "system of systems" integration, visualization, coordination and deconfliction of critical mission information. It not only enhances Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) systems in the areas of strike planning but also in situational awareness, joint and combined interoperability and force transition in war. JADOCS is a component of the Integrated Fires Family of Systems (FOS) and complementary to the Army Battle Command Systems (ABCS) System of Systems (SoS).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: Program Support Costs for JADOCS Software Development Efforts	2.115	2.036	2.042	-	2.042
Articles:	0	0			
Description: Program support for JADOCS software development efforts for versions 1.0.5.1, 1.0.5.2, 1.0.5.3 and 1.0.6.0. FY 2011 Accomplishments: Funded program support for JADOCS software development efforts. FY 2012 Plans: Continues the program support for JADOCS software development efforts. FY 2013 Base Plans: Future program support for JADOCS software development.					
Title: JADOCS Software Development Efforts costs.	2.995	8.983	6.048	-	6.048

Exhibit R-2A, RDT&E Project Justification: PB 2013 Army		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0203726A: *Adv Field Artillery Tactical Data System*	PROJECT F19: *JADOCS*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Articles:	0	0			
Description: Complete development version 1.0.5.1, 1.0.5.2, 1.0.5.3 and Initiate development of version 1.0.6.0. *FY 2011 Accomplishments:* Complete JADOCS software development verison 1.0.5.1 and Initiate software version 1.0.5.2. *FY 2012 Plans:* Complete JADOCS software development version 1.0.5.2 and Initiate software version 1.0.5.3. *FY 2013 Base Plans:* Complete JADOCS software development version 1.0.5.3 and Initiate software version 1.0.6.0.					
Title: Testing	0.500	0.470	0.505	-	0.505
Articles:	0	0			
Description: Conduct and Support Test Activities. *FY 2011 Accomplishments:* Conducted and supported JADOCS test activities. *FY 2012 Plans:* Continued JADOCS test activities. *FY 2013 Base Plans:* Future JADOCS test activities.					
Accomplishments/Planned Programs Subtotals	5.610	11.489	8.595	-	8.595

C. Other Program Funding Summary ($ in Millions)
  N/A

D. Acquisition Strategy
  In FY 03, the Automated Deep Operations Coordination System (ADOCS) was renamed the Joint Automated Deep Operations Coordination System (JADOCS) and was transitioned to Product Manager, Fire Support Command and Control (FSC2).

  JADOCS has operated as a graduated Advanced Concept Technology Demonstration (ACTD) program since 2005. In 2008, the Vice Chief of Staff Army approved JADOCS for Acquisition program status under the Capabilities Development for Rapid Transition (CDRT) program. Commencing in FY 10 and continuing through

Exhibit R-2A, **RDT&E Project Justification:** PB 2013 Army		**DATE:** February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0203726A: *Adv Field Artillery Tactical Data System*	**PROJECT** F19: *JADOCS*

FY 15, the Army will provide funding for its requirements under JADOCS. The Army started development of a Capabilities Production Document in 2008 and was submitted to Joint Requirements Oversight Council (JROC) for approval in 4th Quarter of FY 11.

JADOCS is presently fielded to U.S. Central Command (USCENTCOM), U.S. Pacific Command (USPACOM), U.S. Forces Korea (USFK) and U.S. European Command (USEUCOM), including their subordinate commands. JADOCS is distributed to over 320 servers and 3,614 clients worldwide. Additionally, JADOCS is fielded to coalition partners. The Republic of Korea, the United Kingdom, Australia, Canada and North Atlantic Treaty Organization (NATO) have Foreign Military Sales (FMS) cases.

E. Performance Metrics

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

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army			DATE: February 2012

APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0203726A: Adv Field Artillery Tactical Data System	PROJECT F19: JADOCS

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Business/Technical Services	Various	Chenega Federal Systems:Various	2.323	1.500		1.610		-		1.610	Continuing	Continuing	Continuing
		Subtotal	2.323	1.500		1.610		-		1.610			

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Development & Test	Various	TBD:TBD	2.995	8.983		6.048		-		6.048	Continuing	Continuing	Continuing
		Subtotal	2.995	8.983		6.048		-		6.048			

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management - Government	Various	PM Mission Command (MC):APG, MD	0.695	0.536		0.432		-		0.432	Continuing	Continuing	Continuing
		Subtotal	0.695	0.536		0.432		-		0.432			

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test Support	Various	Joint Service Testing:Various	2.587	0.470		0.505		-		0.505	Continuing	Continuing	Continuing
		Subtotal	2.587	0.470		0.505		-		0.505			

	Total Prior Years Cost	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	8.600	11.489	8.595	-	8.595			

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army		DATE: February 2012							
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*		**R-1 ITEM NOMENCLATURE** PE 0203726A: *Adv Field Artillery Tactical Data System*			**PROJECT** F19: *JADOCS*				
	Total Prior Years Cost	**FY 2012**	**FY 2013 Base**	**FY 2013 OCO**	**FY 2013 Total**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**	

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2013 Army | **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0203726A: *Adv Field Artillery Tactical Data System*	PROJECT F19: *JADOCS*

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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
Fielding - V1.0.5.1 (CS 11-12)		█																										
Software Development and Testing - V1.0.5.2 (Quarterly Release to CS 11-12)					█	█																						
Materiel Release - V1.0.5.2 (Quarterly Release to CS 11-12)							█																					
Fielding - V1.0.5.2 (Quarterly Release to CS 11-12)							█																					
Milestone (MS) C							█																					
Software Development and Testing - V1.0.5.3 (CS 15-16)							█	█	█																			
Materiel Release - V1.0.5.3 (CS 15-16)										█																		
Fielding - V1.0.5.3 (CS 15-16)										█																		
Software Development and Testing - V1.0.6.0 (CS 17-18)												█	█	█	█	█	█											
Materiel Release - V1.0.6.0 (CS 17-18)																							█					
Fielding - V1.0.6.0 (CS 17-18)																								█				

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0203726A: *Adv Field Artillery Tactical Data System*	**PROJECT** F19: *JADOCS*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
Fielding - V1.0.5.1 (CS 11-12)	2	2011	2	2011
Software Development and Testing - V1.0.5.2 (Quarterly Release to CS 11-12)	1	2012	3	2012
Materiel Release - V1.0.5.2 (Quarterly Release to CS 11-12)	3	2012	3	2012
Fielding - V1.0.5.2 (Quarterly Release to CS 11-12)	3	2012	4	2012
Milestone (MS) C	3	2012	3	2012
Software Development and Testing - V1.0.5.3 (CS 15-16)	3	2012	3	2013
Materiel Release - V1.0.5.3 (CS 15-16)	4	2013	4	2013
Fielding - V1.0.5.3 (CS 15-16)	4	2013	1	2014
Software Development and Testing - V1.0.6.0 (CS 17-18)	1	2014	1	2016
Materiel Release - V1.0.6.0 (CS 17-18)	2	2016	2	2016
Fielding - V1.0.6.0 (CS 17-18)	3	2016	3	2016