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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army **Date:** May 2017

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0203728A / Joint Automated Deep Operation Coordination System (JADOCS)
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COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	30.669	30.455	33.520	-	33.520	29.558	10.431	8.000	6.692	Continuing	Continuing
EF6: JADOCS	-	10.787	2.825	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	13.612
EF7: Pocket-Sized Forward Entry Device (PFED) Inc 2	-	3.356	1.966	4.537	-	4.537	3.926	3.154	1.526	0.000	Continuing	Continuing
EF8: AFATDS Increment 1	-	16.526	25.664	28.983	-	28.983	25.632	7.277	6.474	6.692	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element provides development for fire support command and control systems used by all Services from platoon to echelons above Corps. There are two developmental efforts that are being executed concurrently FY18 and beyond: Pocket-sized Forward Entry Device (Increment II) (project code EF7) and Advanced Field Artillery Tactical Data System (AFATDS) (Increment I) (project code EF8). The development on the Joint Automated Deep Operations Coordination System (JADOCS) (project code EF6) will be completed in FY17.

Joint Automated Deep Operations Coordination System (JADOCS) is a Joint and Coalition targeting, coordination mission management software application. It links Command and Control (C2), Intelligence, and Air operations information with execution systems using real time collaborative targeting managers, customized for each service or specific functional area. JADOCS is used to significantly enhance the Joint Force and Component Command's capability to simultaneously develop, coordinate and execute Dynamic and Time Sensitive targets and fire missions, as well as battle space coordination worldwide. JADOCS provides coordination and de-confliction of targeting information at all levels of command structure for the military. JADOCS is used by Air, Ground, Maritime, and Special Operations forces. It provides horizontal (across Services) as well as vertical (within Services) coordination of missions to ensure a common picture of targeting operational status across the entire joint force. As a software application, JADOCS can be configured and customized for each user and location.

Pocket-sized Forward Entry Device (PFED) Increment II is a software application that operates on the Nett Warrior End User Device (EUD). It will provide the dismounted Forward Observer (FO) and Fire Support Teams (FISTs) the capability and functionality to accurately and rapidly locate ground targets and digitally process a Call For Fire. PFED Increment II answers the Mobile Handheld Computing Environment requirement that all handheld applications reside on the Nett Warrior EUD.

AFATDS 7.0 modernizes the existing AFATDS program currently in the field. AFATDS 7.0 enhances the existing AFATDS baseline by: (1) Providing a modernized web service based backend that will simplify long-term maintenance of the software, (2) Bringing AFATDS into full compliance with the Army's Common Operating Environment (COE) Command Post Computing Environment (CPCE) initiative and (3) Enhancing overall usability of the system through the implementation of a role-based capability architecture with embedded training that allows the AFATDS operator to receive on-the-spot training for any aspect of AFATDS via interactive instruction.

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army	Date: May 2017
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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0203728A / <i>Joint Automated Deep Operation Coordination System (JADOCS)</i>
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B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	35.719	30.455	37.442	-	37.442
Current President's Budget	30.669	30.455	33.520	-	33.520
Total Adjustments	-5.050	0.000	-3.922	-	-3.922
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-3.666	-			
• SBIR/STTR Transfer	-1.384	-			
• Adjustments to Budget Years	0.000	0.000	-3.922	-	-3.922

Change Summary Explanation

FY 2016 Base Funding in the amount of (1.384) million was transferred to support SBIR/STTR.
 FY 2016 Base Funding in the amount of (3.666) million was reprogrammed in support of higher Army priorities.

FY 2018 Base Funding reduced by (3.922) based on current execution of the program.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: FY 2018 Army **Date:** May 2017

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203728A / Joint Automated Deep Operation Coordination System (JADOCS)	Project (Number/Name) EF6 / JADOCS
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COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
EF6: JADOCS	-	10.787	2.825	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	13.612
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Joint Automated Deep Operations Coordination System (JADOCS) is a Joint and Coalition targeting, coordination mission management software application. It links Command and Control (C2), Intelligence, and Air operations information with execution systems using real time collaborative targeting managers, customized for each service or specific functional area. JADOCS is used to significantly enhance the Joint Force and Component Command's capability to simultaneously develop, coordinate and execute Dynamic and Time Sensitive targets and fire missions, as well as battle space coordination worldwide. JADOCS provides coordination and de-confliction of targeting information at all levels of command structure for the military.

JADOCS is used by Air, Ground, Maritime, and Special Operations forces. It provides horizontal (across Services) as well as vertical (within Services) coordination of missions to ensure a common picture of targeting operational status across the entire joint force. As a software application, JADOCS can be configured and customized for each user and location.

JADOCS fires and targeting capabilities will migrate to AFATDS v 7.1. JADOCS v2.0 will be sustained throughout the force until AFATDS 7.1 is fielded and satisfies the requirement for JADOCS fires and targeting functionality. JADOCS v 2.0 software is being developed by CECOM Life Cycle Management Command, Software Engineering Center (SEC).

There is no FY18 RDTE funding request.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2016	FY 2017	FY 2018
<p>Title: JADOCS Software Development Efforts</p> <p>Description: Software development of JADOCS v2.0 software.</p> <p>FY 2016 Accomplishments: Continue development of JADOCS v2.0 software. Complete software Engineering Release (ER) 2 and ER 3. Test each ER to meet all JADOCS 2.0 requirements. JADOCS 2.0 completes development in the fourth quarter FY16.</p> <p>FY 2017 Plans: Finalize JADOCS v2.0 software development including the Test Readiness Review (TRR), Formal Qualification Test (FQT) and delivery of JADOCS 2.0 software. Finalize and deliver JADOCS 2.0 documentation and training materials.</p>	9.687	1.329	-
<p>Title: Program Management Support Costs for JADOCS</p>	0.700	0.596	-

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army		Date: May 2017
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203728A / Joint Automated Deep Operation Coordination System (JADOCS)	Project (Number/Name) EF6 / JADOCS

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018
<p>Description: Program support for JADOCS v2.0 software development efforts.</p> <p>FY 2016 Accomplishments: Continue program support for JADOCS version 2.0 software development.</p> <p>FY 2017 Plans: Continue program support for JADOCS version 2.0 through test and materiel release of the software. Finalize and deliver JADOCS 2.0 documentation and training materials.</p>			
<p>Title: Army and Joint Testing Activities</p> <p>Description: Conduct and support Army and Joint Testing Activities.</p> <p>FY 2016 Accomplishments: Continue support of Army and Joint testing activities; conduct Independent Verification and Validation (IV&V) of the JADOCS version 2.0 software.</p> <p>FY 2017 Plans: Continue support of Army and Joint test planning activities; conduct IV&V of the JADOCS version 2.0 software. Finalize JADOCS v2.0 software development including Army Confidence Demo at Fort Sill, Ok, Joint development and operational test and Army Interoperability Certification (AIC) testing.</p>	0.400	0.900	-
Accomplishments/Planned Programs Subtotals	10.787	2.825	-

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2016	FY 2017	FY 2018	FY 2018	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Cost To	Total Cost
			Base	OCO	Total					Complete	
• B28504: JOINT AUTOMATED DEEP OPNS COORDINATION SYSTEM	-	1.969	1.722	-	1.722	-	-	-	-	0.000	3.691

Remarks

D. Acquisition Strategy
JADOCS v2.0 will be the last major version of JADOCS software. JADOCS v2.0 will interoperate with AFATDS. JADOCS v 2.0 will be maintained and sustained until the Joint Users requirements are met by AFATDS and other systems. JADOCS 2.0 is developed under agreement with the LCMC SEC.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: FY 2018 Army		Date: May 2017
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203728A / <i>Joint Automated Deep Operation Coordination System (JADOCS)</i>	Project (Number/Name) EF6 / <i>JADOCS</i>

<u>E. Performance Metrics</u> N/A

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: FY 2018 Army										Date: May 2017		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0203728A / Joint Automated Deep Operation Coordination System (JADOCS)				Project (Number/Name) EF7 / Pocket-Sized Forward Entry Device (PFED) Inc 2			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
EF7: Pocket-Sized Forward Entry Device (PFED) Inc 2	-	3.356	1.966	4.537	-	4.537	3.926	3.154	1.526	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Pocket-sized Forward Entry Device (PFED) Increment II is a software application that operates on the Nett Warrior End User Device (EUD). It will provide the dismounted Forward Observer (FO) and Fire Support Teams (FISTs) the capability and functionality to accurately and rapidly locate ground targets and digitally process a Call For Fire. PFED Increment II answers the Mobile Handheld Computing Environment requirement that all handheld applications reside on the Nett Warrior EUD.

FY18 funding of \$4.537million supports the evolutionary software development and testing of PFED Increment II and transition to the mounted computing environment.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2016	FY 2017	FY 2018
<p>Title: Program Management Support Costs for PFED Increment II</p> <p>Description: Program support for PFED INC II software development efforts.</p> <p>FY 2016 Accomplishments: Provided program support for PFED INC II software development.</p> <p>FY 2017 Plans: Continue program support for PFED INC II software development.</p> <p>FY 2018 Plans: Provide Program Management Office (PMO) support (Core, Matrix, and SETA) for all aspects of the PFED Inc II program including requirements development, software development efforts, logistics, and business management support.</p>	0.600	0.267	0.662
<p>Title: PFED INC II Software Development</p> <p>Description: PFED INC II Software Development</p> <p>FY 2016 Accomplishments: Continued software development for the Block 1 capability. Conducted developmental test events, and Independent Verification and Validation testing.</p> <p>FY 2017 Plans:</p>	2.496	1.453	3.525

UNCLASSIFIED

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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203728A / Joint Automated Deep Operation Coordination System (JADOCS)	Project (Number/Name) EF7 / Pocket-Sized Forward Entry Device (PFED) Inc 2
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018
Complete software development for the Block 1 capability. Conduct a Full Deployment Decision in order to obtain a Full Materiel Release of the Block 1 capability. Develop the performance specification for Block 2 capabilities based on validated requirements. Begin development of Block 2 capability. FY 2018 Plans: Development and testing of Block 2 capabilities. Complete hardware/software integration with Nett Warrior EUD and MFOCS. Complete software Information Assurance certification.			
Title: Testing Description: Conduct and Support Army Testing Activities FY 2016 Accomplishments: Performed Developmental Testing of the Block 1 capability. FY 2017 Plans: Complete Operational Testing and Evaluation of the Block 1.0 capability. Begin test planning for Block 2 capabilities. FY 2018 Plans: Prepare and execute Engineering Release Evaluation/Testing.	0.260	0.246	0.350
Accomplishments/Planned Programs Subtotals	3.356	1.966	4.537

C. Other Program Funding Summary (\$ in Millions)						Cost To					
<u>Line Item</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u> <u>Base</u>	<u>FY 2018</u> <u>OCO</u>	<u>FY 2018</u> <u>Total</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Complete</u>	<u>Total Cost</u>
• BZ9851: BZ9851 POCKET FORWARD ENTRY DEVICE (PFED) - OPA	1.190	4.093	4.213	-	4.213	3.486	3.772	3.849	5.921	Continuing	Continuing

Remarks

D. Acquisition Strategy
On 18 May 2015, the Milestone Decision Authority (PEO C3T) signed the Acquisition Decision Memorandum (ADM) approving the PFED Increment II Milestone B. The Acquisition Decision Memorandum (ADM) officially approved entry into the Development phase as an Acquisition Category (ACAT) III program.

PFED Increment II leverages an Army Science and Technology investment by transitioning a software application that has been developed and used in proponent experimentation events (e.g. Army Expeditionary Warrior Experiment (AEWE) and Bold Quest). Upon a successful Milestone B decision in FY2015, this software

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Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
2040 / 7	PE 0203728A / <i>Joint Automated Deep Operation Coordination System (JADOCS)</i>	EF7 / <i>Pocket-Sized Forward Entry Device (PFED) Inc 2</i>

application transitioned to PM Mission Command to conduct all Army developmental and operational test and evaluation requirements. PFED Increment II will be integrated onto the Nett Warrior End User Devices (EUDs) and will be fielded by PM Soldier Warrior (PM SWAR). Training on the PFED Increment II software will be conducted by PM Mission Command as units are fielded the capability.

PM Mission Command will continue to manage future capability blocks of software development. PM Mission Command will continue to coordinate with PM Soldier Warrior to field and train future versions of the software, as described above.

E. Performance Metrics

N/A

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army										Date: May 2017		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0203728A / Joint Automated Deep Operation Coordination System (JADOCS)				Project (Number/Name) EF8 / AFATDS Increment 1			
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
EF8: AFATDS Increment 1	-	16.526	25.664	28.983	-	28.983	25.632	7.277	6.474	6.692	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Advanced Field Artillery Tactical Data System (AFATDS) 7.0 modernizes the existing AFATDS software currently in the field. AFATDS 7.0 enhances the existing AFATDS baseline by: (1) Providing a modernized web service based backend that will simplify long-term maintenance of the software, (2) Bringing AFATDS into full compliance with the Army's Common Operating Environment (COE) Command Post Computing Environment (CPCE) initiative and (3) Enhancing overall usability of the system through the implementation of a role-based capability architecture with embedded training that allows the AFATDS operator to receive on-the-spot training for any aspect of AFATDS via interactive instruction.

FY18 funding in the amount of \$28.983 million will be used to continue development efforts on AFATDS version 7.0.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2016	FY 2017	FY 2018
<p>Title: Program Management Costs for AFATDS software development</p> <p>Description: Provide program support for AFATDS software development efforts.</p> <p>FY 2016 Accomplishments: Provided matrix support and Program Management Office (PMO) efforts. Continued development and testing of V6.8.1.1. Conducted Risk Reduction Analysis, Solution Refinement, Requirements Development and Request for Proposal (RFP) Evaluation of V7.0 contract.</p> <p>FY 2017 Plans: Provides Program Management Office (PMO) support (Core, Matrix, and SETA) for all aspects of the AFATDS program including requirements development, software development efforts, logistics, and business management support.</p> <p>FY 2018 Plans: Provide Program Management Office (PMO) support (Core, Matrix, and SETA) for all aspect of the AFATDS program including requirements analysis, software development efforts, logistics, and business management support.</p>	4.140	2.350	2.560
<p>Title: AFATDS software development efforts</p> <p>Description: Development of AFATDS software - including V6.8.1.1 and V7.0</p> <p>FY 2016 Accomplishments: Completed of AFATDS V6.8.1.1 development.</p>	12.036	21.791	26.423

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: FY 2018 Army		Date: May 2017		
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203728A / Joint Automated Deep Operation Coordination System (JADOCS)	Project (Number/Name) EF8 / AFATDS Increment 1		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018
<p>Initiated AFATDS V6.8.1.1 P1 development. Version V6.8.1.1 P1 implements Army Tactical Missile System and the DoD mandated Windows 10 upgrade.</p> <p>Completed the Request for Proposal (RFP) evaluation for AFATDS V7.0. V7.0 will focus on architecture modernization to provide role/duty-based functionality for Fire Support, Fire Control, and Fire Direction Capabilities, support for net-centric operations, web-enabled network interoperability, execution of Joint critical operational activities, embedded training, and exploitation of Army Common Operating Environment (COE) Computing Environment.</p> <p>FY 2017 Plans: Complete development of AFATDS V6.8.1.1 P1. Initiate the development of AFATDS V6.8.1.1 P2. Version V6.8.1.1 P2 support AFATDS fires requirements during the initial AFATDS V7.0 development period. V6.8.1.1 P2 provides USMC and Army requirements. Initiate the development on V7.0. V7.0 will focus on architecture modernization to provide role/duty-based functionality for Fire Support, Fire Control, and Fire Direction Capabilities, support for net-centric operations, web-enabled network interoperability, execution of Joint critical operational activities, embedded training, and exploitation of Army Common Operating Environment (COE) Computing Environment.</p> <p>FY 2018 Plans: Continue the development of AFATDS V6.8.1.1 P2. While FY17 development will focus on AFATDS application back end modernization, FY 18 Development will include building fire support, fire control and fire direction role based capabilities, integrating available CP CE v3 common components, and updating the user interface for the application.</p>				
<p>Title: Defensive Cyber Tools</p> <p>Description: Integration of Tactical Public Key Infrastructure (T-PKI) defensive cyber tools into AFATDS v7.0</p> <p>FY 2017 Plans: Engineer and integrate the software architecture and system design of Tactical Public Key Infrastructure (T-PKI) defensive cyber tools into AFATDS v7.0.</p>		-	1.100	-
<p>Title: Operational and Developmental Testing</p> <p>Description: Conduct and support test activities for AFATDS development.</p> <p>FY 2016 Accomplishments: Awaiting contract award to initiate Testing efforts.</p> <p>FY 2017 Plans:</p>		0.350	0.423	-

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army	Date: May 2017
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Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203728A / Joint Automated Deep Operation Coordination System (JADOCS)	Project (Number/Name) EF8 / AFATDS Increment 1
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018
Complete AFATDS V6.8.1.1 P1 testing. AFATDS Version 7.0, prepare for: Army Interoperability Certification (AIC); Development Testing (DT); and Army Warfighting Assessment (AWA).			
Accomplishments/Planned Programs Subtotals	16.526	25.664	28.983

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
• B28620: MOD OF IN-SVC EQUIP, AFATDS	0.048	2.598	2.765	-	2.765	11.250	18.857	12.387	2.700	0.000	50.605

Remarks

D. Acquisition Strategy
On 13 May 2015, the Army Acquisition Executive (AAE) determined that a modernization of the existing AFATDS software code is required to comply with Army Common Operating Environment (COE) standards to be executed as AFATDS 7.0. In V7.0, the PM will re-design AFATDS to provide the operator role/duty-based interaction, a dynamic embedded training capability, integration of COE compliant architectures and allowance for more efficient insertion of future capabilities.

Development of future AFATDS capabilities will be considered based on requirements approved through the Fires Center of Excellence (FCoE) Tactical Software Requirements Governance Board.

E. Performance Metrics
N/A

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Army **Date:** May 2017

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203728A / Joint Automated Deep Operation Coordination System (JADOCS)	Project (Number/Name) EF8 / AFATDS Increment 1
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Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management Support for AFATDS (Core)	Sub Allot	PM Mission Command (MC) : APG, MD	1.247	1.244		0.707		0.810		-		0.810	0.000	4.008	0.000
Program Management Support for AFATDS (Matrix)	IA	Various Matrix Orgs (Govt) : Aberdeen PG, MD	0.000	0.890		0.900		1.010		-		1.010	0.000	2.800	0.000
Program Management Support for AFATDS (SETA Contr)	C/FFP	CRSA : Aberdeen PG, MD	0.000	0.500		0.743		0.540		-		0.540	0.000	1.783	0.000
Program Management Support for AFATDS (FFRDC)	FFRDC	MITRE : APG, MD	0.000	-		-		0.200		-		0.200	0.000	0.200	0.000
Subtotal			1.247	2.634		2.350		2.560		-		2.560	0.000	8.791	0.000

Product Development (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Software Development of AFATDS Version 6.8.1.1	C/CPFF	Raytheon Systems Corp. : Ft. Wayne, IN	12.600	9.036		-		-		-		-	0.000	21.636	33.188
Software Development of AFATDS Version 7.0	C/CPFF	TBD : TBD	0.000	3.000	Dec 2016	20.791	Dec 2016	26.423		-		26.423	0.000	50.214	0.000
Subtotal			12.600	12.036		20.791		26.423		-		26.423	0.000	71.850	33.188

Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Information Assurance and Engineering Support for AFATDS requirements	C/CPFF	CSC : Various Locations	1.060	-		-		-		-		-	0.000	1.060	0

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Army												Date: May 2017			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 7				PE 0203728A / Joint Automated Deep Operation Coordination System (JADOCS)				EF8 / AFATDS Increment 1							
Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Defensive Cyber Tools (T-PKI)	TBD	TBD : TBD	0.000	-		1.100		-		-		-	0	1.100	0
Risk Reduction Analysis, Solution Refinement, Requirements Development, RFP Development.	IA	US Army Operational Test Command : Ft Hood, Tx	0.000	1.506		-		-		-		-	0	1.506	0
Subtotal			1.060	1.506		1.100		-		-		-	0.000	3.666	0.000
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Confidence Demo for AFATDS V6.8.x requirements.	IA	Army Test & Evaluation Command (ATEC)/Fires Test Directorate (FTD) : Various Locations	0.626	-		-		-		-		-	0	0.626	0
Independent Verification and Validation of AFATDS V7.0 requirements	C/CPFF	Engility : Various Locations	0.515	-		1.023		-		-		-	0	1.538	0
Developmental Testing for AFATDS v7.0	IA	Multiple Govt Test Agencies (ATEC, ATC, EPG) : Multiple	0.000	0.350		0.400		-		-		-	0	0.750	0
Subtotal			1.141	0.350		1.423		-		-		-	0.000	2.914	0.000
Project Cost Totals			16.048	16.526		25.664		28.983		-		28.983	0.000	87.221	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Army **Date:** May 2017

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203728A / Joint Automated Deep Operation Coordination System (JADOCS)	Project (Number/Name) EF8 / AFATDS Increment 1
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Event Name	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022			
	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
	Development and Testing V6.8.1.1 P1																											
V6.8.1.1 P1 Customer Test																												
(1) Materiel Release V6.8.1.1 P1																												
V6.8.1.1 P1 Fielding (OPA Funding)																												
V6.8.1.1 P2 Development																												
V6.8.1.1 P2 Customer Test																												
V6.8.1.1 P2 Fielding																												
V7.0 Request For Proposal																												
(2) V7.0 Development (Primary) Contract Award																												
V7.0 Development (Base Period)																												
V7.0 Test for Record (Developmental Test/Operational Test)																												
(3) V7.0 Fielding Decision																												
V7.0 Fielding & New Equipment Training (OPA Funded)																												

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Army **Date:** May 2017

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203728A / Joint Automated Deep Operation Coordination System (JADOCS)	Project (Number/Name) EF8 / AFATDS Increment 1
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Event Name	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022			
	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
(1) V7.0.X Development (Option) Contract Option																	▲											
V7.0.X Development (Option Period)																												

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Exhibit R-4A, RDT&E Schedule Details: FY 2018 Army		Date: May 2017
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0203728A / Joint Automated Deep Operation Coordination System (JADOCS)	Project (Number/Name) EF8 / AFATDS Increment 1

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Development and Testing V6.8.1.1 P1	3	2014	1	2017
V6.8.1.1 P1 Customer Test	2	2017	2	2017
Material Release V6.8.1.1 P1	2	2017	2	2017
V6.8.1.1 P1 Fielding (OPA Funding)	1	2018	2	2018
V6.8.1.1 P2 Development	3	2017	2	2018
V6.8.1.1 P2 Customer Test	2	2018	2	2018
V6.8.1.1 P2 Fielding	3	2019	3	2020
V7.0 Request For Proposal	4	2016	2	2017
V7.0 Development (Primary) Contract Award	3	2017	3	2017
V7.0 Development (Base Period)	3	2017	3	2020
V7.0 Test for Record (Developmental Test/Operational Test)	1	2020	1	2021
V7.0 Fielding Decision	2	2021	2	2021
V7.0 Fielding & New Equipment Training (OPA Funded)	4	2021	2	2023
V7.0.X Development (Option) Contract Option	3	2020	3	2020
V7.0.X Development (Option Period)	3	2020	3	2022