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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 The Joint Staff **Date:** February 2016

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604828J <i>I Joint FIRES Integration and Interoperability Team</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	12.946	2.447	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	15.393
P857: <i>Joint Deployable Analysis Team (JDAT)</i>	12.946	2.447	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	15.393
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The JFIIT mission is to employ scientific methods to research, investigate, test, assess, and evaluate current and emergent Joint command and control (C2) information systems and associated procedures. These activities measure capabilities and limitations, identify shortfalls and root cause, recommend and verify solutions, and validate joint capabilities. The resultant empirical outcomes influence Joint Capability development in areas such as Policy; Joint Doctrine; Tactics, Techniques and Procedures (TTP); integration and interoperability of capabilities. JDAT provides decision-quality data and cogent solutions to customers and stakeholders responsible for improving Joint C2 information systems integration and interoperability, informing acquisition decisions, and ensuring that Services and Agencies field integrated and interoperable systems. The emphasis of JFIIT efforts is the analysis of C2 information systems and supporting procedures to provide Services and Agencies findings and recommendations based on quantifiable data to improve Joint C2 integration and interoperability. Evaluations range from small, single-focus events to large, multi-event/venue exercises.

In FY 2016 this program element will be consolidated with PE 0604826J - Joint C5 (Command, Control, Communications, Computers, and Cyber) Capability Development, Integration, and Interoperability Assessments.

B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	7.102	0.000	0.000	-	0.000
Current President's Budget	2.447	0.000	0.000	-	0.000
Total Adjustments	-4.655	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• FY2015 Carryover	-4.655	-	-	-	-

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Change Summary Explanation

In FY2016 this program element will be consolidated with PE 0604826J - Joint C5 (Command, Control, Communications, Computers, and Cyber) Capability Development, Integration, and Interoperability Assessments.

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

	FY 2015	FY 2016	FY 2017
<p>Title: Joint Fires Integration & Interoperability Team (JFIIT)</p> <p>FY 2015 Accomplishments: Analysis activities enhanced joint warfighter capabilities in support of U.S. National security requirements. Provided timely, facts-based findings and recommendations for action through the formal DoD decision-making processes used to validate operational requirements and apply funding to field effective, interoperable capabilities. Activities and benefits to DoD and warfighters are summarized below.</p> <p>(1) Conducted analysis of joint fires capabilities at BOLD QUEST event. Assessed Joint-coalition capabilities relevant to the Joint Mission Threads (JMTs) of Coalition Intelligence, Surveillance, and Reconnaissance (CISR), joint fires, IAMD and Joint Close Air Support (JCAS) in order to identify interoperability gaps and integration shortfalls. Identified twelve (12) interoperability discrepancies between US systems for joint fires (limited to digitally aided fire support, DAFS) with eleven (11) findings reported to acquisition program offices and one resolved for US Army fire support systems. Analysis results inform US Government decisions to field interoperable and integrated US-Coalition capabilities. DoD stakeholders included Defense Information Systems Agency (DISA), Joint Staff , USA, and USAF; international defense stake holders include Canada (Canadian Forces Warfare Center), Denmark (Defence Command Denmark), Norway (Norwegian Battle Lab & Experimentation), Italy, France, United Kingdom, as well as NATO (NATO Communications and Information Agency).</p> <p>(2) Assessed a Mission Partner Environment (MPE) during the scheduled BOLD QUEST event; applied the recently approved MPE capabilities definition packages (CDPs) to frame current and future assessments of MPEs and provide recommendations for improved MPE operations. Effective analysis of MPE performance through collaboration between DoD, Inter-Agency (IA) and Coalition partners inform capabilities development and subsequent decisions on mitigating gaps and shortfalls in the MPE capability.</p> <p>(3) Collected data and provided analysis on the integration of counter-UAS (C-UAS) operational architectures, operational concepts, and tactics, techniques, and procedures (TTPs) in support of broader air and missile defense requirements during BLACK DART event. Evaluated existing combatant command plans for C-UAS operations; provided qualitative/quantitative findings with recommendations that inform the Integrated Air & Missile Defense (IAMD) roadmap. Effective analysis of C-UAS capabilities through collaboration within JS (J6 and J8) and among broader DoD, Inter-Agency (IA) and Industry partners informs Service decisions on the mitigation of adversary UAS capabilities. Service and combatant command stakeholders included USN, USAF, USA, NORAD/NORTHCOM, PACOM, and CENTCOM; IA stakeholders included Department of Homeland Security; and</p>	2.447	-	-

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
key foreign observers included UK/JAP/AUS/ROK. Also participating were select U.S. and foreign acquisition programs (both fielded and emerging technologies).			
(4) Identified and evaluated over ten (10) specific cyber vulnerabilities during DoD Enterprise Cyberspace Range Environment (DECRE) events; provided qualitative/quantitative findings with recommendations to participating programs, and Director Operational Test and Evaluation (DOT&E) to enhance planning for future cyber security events. Analysis of Joint C2 information systems and procedures, with data collected through exercise of validated DoD scenarios in an operationally relevant multi-phased event, inform DoD mitigation of cyberattacks against command and control systems. Service and combatant command stakeholders included NORTHCOM, DOT&E and JS.			
Accomplishments/Planned Programs Subtotals	2.447	-	-

D. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

E. Acquisition Strategy

N/A

F. Performance Metrics

N/A: PE is consolidating in FY 2016 - Refer to PE0604826J

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 The Joint Staff		Date: February 2016
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Remarks

N/A: PE Consolidating in FY2016 - reference PE0604826J

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 The Joint Staff		Date: February 2016
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FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
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

Consolidation	
Transition to PE0604826J	■

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 The Joint Staff		Date: February 2016
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Consolidation				
Transition to PE0604826J	1	2016	1	2016