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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff										Date: March 2014		
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0607828J I Joint Integration & Interoperability							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	4.200	12.652	11.968	-	11.968	11.594	6.761	8.318	6.684	Continuing	Continuing
P818: Joint Integration & Interoperability	0.000	4.200	12.652	11.968	-	11.968	11.594	6.761	8.318	6.684	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
Joint Integration and Interoperability (JI&I) leads the development, assessment and validation of military C4/Cyber capability requirements in order to achieve an effective and agile joint force. Efforts include C4/Cyber requirements determination, prioritization, integration and assessment; C4 standards and technical specification development, documentation and enforcement, and capture of key information exchanges, services, capabilities, and systems in support of joint and multinational operations.												
B. Program Change Summary (\$ in Millions)				FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total				
Previous President's Budget				4.200	12.652	12.895	-	12.895				
Current President's Budget				4.200	12.652	11.968	-	11.968				
Total Adjustments				-	-	-0.927	-	-0.927				
• Congressional General Reductions				-	-							
• Congressional Directed Reductions				-	-							
• Congressional Rescissions				-	-							
• Congressional Adds				-	-							
• Congressional Directed Transfers				-	-							
• Reprogrammings				-	-							
• SBIR/STTR Transfer				-	-							
• Program Change				-	-	-0.927	-	-0.927				
Change Summary Explanation												
PE 0607828J, Joint Integration and Interoperability, was transferred to the Joint Staff O&M account from OUSD (AT&L) in FY 2013.												
C. Accomplishments/Planned Programs (\$ in Millions)									FY 2013	FY 2014	FY 2015	
Title: Joint Integration & Interoperability									4.200	12.652	11.968	
Description: Primary objective is the resolution of C2 warfighter requirements and interoperability shortfalls:												

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
(1) Improved, integrated, interoperable, and networked joint force (2) Reduction in duplicative C2 systems/programs across the DoD portfolio (3) Improved decisions and recommendations regarding capability trade-off investment strategies and development efforts.				
FY 2013 Accomplishments: (1) Led the requirements definition process foundational implementation framework and architecture products necessary to evolve the DoD Joint Information Environment (JIE) / Mission Partner Environment (MPE) capabilities, and provided oversight and management of integration activities. (2) Conducted Joint Staff sponsored Bold Quest Coalition Capability Demonstration and Assessment involving 13 partner nations, all US Services and U.S. Special Operations Command successfully demonstrating the integration of Cyber capabilities with command and control of Conventional and Special Operations Force missions from a multi-national perspective at the tactical level. Led interoperability efforts across DOD and partner nations at the operational and tactical level for mission partner operations, fire support, Combat Identification (CID), and Friendly Force Tracking (FFT) capabilities. (3) Performed C2 capability prioritization and sequencing via the USD (AT&L)-sponsored Joint C2 Sustainment and Modernization Plan process, with follow-on C2 capability production, integration, fielding, and sustainment for FY 2013 - FY 2015. (4) Led configuration management of C2 Core Version 2.0 and facilitated C2 Core implementation through the Tactical Edge Data Solutions (TEDS) Joint Capability Technology Demonstration and piloting activities with the National Geospatial Agency and the Open Geospatial Consortium. Supported DOD CIO development of the DOD Data Framework and DOD adoption of the National Information Exchange Model (NIEM), leading stand-up of the MILOPS domain. (5) Supported cross-DOD efforts to enhance the capability to collaborate, leverage, and improve developed and emergent joint mission threads (JMTs) via architecture federation efforts to address JROC interest issues and requirements capabilities, developed solutions architectures and conducted analysis to determine C4 capability development priorities, identify capability redundancies/gaps, and identify critical joint C4 interoperability opportunities and requirements. Analyzed Joint Capabilities Integration and Development System (JCIDS) required architecture products to provide Global Information Grid (GIG) connection / interoperability waivers.				
FY 2014 Plans: (1) Continue to lead requirements definition and integration efforts regarding DoD Joint Information Environment (JIE) / Mission Partner Environment (MPE) capabilities and DOT LPF-P solution tradeoffs. Develop an integrated and prioritized C4 capabilities action plan to address validated capability shortfalls. Develop a Joint C4I Partnership to establish and manage a predictable				

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
and operationally realistic environment for capability development, assessment, test, and certification of COCOM and JTF C4I systems. Assess and test systems providing capabilities to joint missions in an operational environment to verify interoperability earlier in the development cycle to enhance joint and coalition force C4I assessment, test and certification. Continue to develop, prioritize, and sequence C2 capability requirements and perform Operational Impact and Risk Assessment of Joint C2 capabilities based on CCMD and Service inputs. (2) Continue to transition the C2 Core data exchange standard to the National Information Exchange Model (NIEM), including maturation and implementation of the NIEM Military Operations Domain. Provide training and support to NIEM implementation activities within the Warfighter Mission Area (WMA) to promote DOD and interagency interoperability. Continue to lead the NATO C3 Board Information Integration Services Capability Team and define a NATO Core Data Framework to facilitate data sharing capabilities with NATO nations. (3) Continue to lead interoperability efforts across DOD and partner nations at the operational and tactical level for mission partner operations, fire support, Combat Identification (CID), and Friendly Force Tracking (FFT) capabilities. Continue to execute Joint Fire Support (JFS)/Joint Close Air Support (JCAS) and CID-FFT action plans to fulfill JROC-chartered, GOFO-level responsibilities. Continue to conduct JFS Executive Steering Committee (ESC) standardization team accreditation visits to US and partner nation schoolhouses to ensure MOA signatories are accomplishing schoolhouse training in compliance with the Memorandums. Execute Joint Staff-sponsored Bold Quest 2014 assessment demonstration, including integration of Cyber capabilities with command and control of Conventional and Special Operations Force missions-from a multinational perspective-at the tactical level. (4) Analyze Net Ready Key Performance Parameter (NR KPP) architectures and capabilities for interoperability and integration, and provide NR KPP waiver recommendations based on operational/systems requirements analysis. Support C4/Cyber Functional Capabilities Board (FCB) on JROC interest issues with analysis and architectures. Continue to support FCB architecture-based analyses requirements through expanding the architecture federation effort. (5) Continue development of joint mission threads in accordance with JROC and C4/Cyber FCB guidance. Expand the quantity and quality of WMA architecture data available to support DOD CIO architecture requirements and Joint Staff capability analysis, assessments, and modeling and simulation processes. FY 2015 Plans: (1) Continue to lead implementation and integration efforts for DoD Joint Information Environment (JIE) / Mission Partner Environment (MPE) capabilities, including piloting and implementation efforts with COCOMs, Services, Agencies, and Coalition partners. Continue the integration of JIE/MPE and Cyber capabilities into joint and coalition training. Extend development of JIE/				

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
MPE architecture products to enhance linkage with Coalition partners. Leverage the Joint C4I Partnership to manage capability development, assessment, test, and certification of COCOM and JTF C4I systems and capabilities. Continue development of C4/Cyber requirements and assessment of systems providing capabilities to joint missions in an operational environment to verify interoperability earlier in the development cycle. Continue to develop, prioritize, and sequence C4/Cyber capability requirements and enterprise mission services. (2) Continue to lead interoperability efforts across DOD and partner nations at the operational and tactical level for mission partner operations, fire support, Combat Identification (CID), and Friendly Force Tracking (FFT) capabilities. Execute Joint Staff-sponsored Bold Quest 2015 assessment demonstration, including integration of Cyber capabilities with command and control of Conventional and Special Operations Force missions from a multi-national perspective at the tactical level. (3) Support DOD CIO efforts to refine and implement the DOD Data Framework and lead the implementation of the NIEM Military Operations Domain, data exchange standards. Continue JROC-directed Authoritative Data Source (ADS) work with emphasis on the Cyber mission area. Begin transition of Tactical Infrastructure Enterprise Services (TIES) Joint Capability Technology Demonstration (JCTD) to automate DOD meta-data tagging and identity access capabilities. (4) Continue development of joint mission threads in accordance with JROC and C4/Cyber FCB guidance to expand development of solutions architectures for enterprise mission services in support of DOD JIE/MPE and Cyber capabilities. Provide joint mission thread data via web-enabled portal capability to enable operational context data reuse for testing, training, programming, and program development. Continue to refine the quantity and quality of WMA architecture data available to support DOD CIO architecture requirements and Joint Staff capability analysis, assessments, and modeling and simulation processes. Analyze NR KPP architectures and capabilities for interoperability and integration, and provide NR KPP waiver recommendations based on operational/systems requirements analysis.				
Accomplishments/Planned Programs Subtotals		4.200	12.652	11.968
D. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
E. Acquisition Strategy Not applicable for this item.				

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F. Performance Metrics		
(1) Develop coordinated joint C4 operational assessments, tests and evaluations to identify, prioritize, and document interoperability deficiencies that produce Component plans and actions to reduce or eliminate identified deficiencies. (2) Provide mission capable solutions for joint interoperability and integration capability shortfalls to influence and resource joint C4 solutions in the POM. (3) Provide situation awareness and cooperative/non-cooperative identification capabilities that enable U.S. and NATO/Coalition warfighters to identify friendly, enemy and neutral forces for “shoot/don’t shoot” decisions. (4) Synchronize Service testing, acquisition and fielding of Mode 5 IFF capability, with an Initial Operating Capability (IOC) in 2014 and Full Operational Capability (FOC) in 2020. (5) Complete Definition Package for Block 2 of Digitally Aided Close Air Support (DACAS) coordinated implementation in conjunction with participating Service programs of record. (6) Conduct Accreditation Biennial Visits for 5 Joint Terminal Attack Controller (JTAC) and 2 Joint Fires Observer (JFO) Schoolhouses. (7) Monitor compliance for Mode 5 IOC in FY 2014 and FOC in FY 2020. (8) Develop annual JROC approved plan to identify prioritized and synchronized capabilities sufficient for near-term development and fielding to warfighters (12-18 month delivery). (9) Develop, as required, JROC requirements documentation (Initial Capabilities Documents, Capability Development Documents, Capability Production Documents, Concept of Operations, Measure of Effectiveness/Measure of Performance) sufficient for agile/flexible used by the acquisition community. (10) Continue development of reusable architecture products to provide capability developers with an upfront operation/systems view at the enterprise level to support capability acquisition, requirements generation, development, and testing. (11) Establish common WMA data and service standards and facilitate access to authoritative data assets in order to provide the warfighter timely access to critical information for Joint, Interagency, and Multinational partners.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 The Joint Staff												Date: March 2014			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 0607828J / Joint Integration & Interoperability				Project (Number/Name) P818 / Joint Integration & Interoperability					
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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
FFRDC Engineering & Technical Services	FFRDC	MITRE : Hampton Roads, VA	-	0.190	Feb 2013	0.190	Feb 2014	0.190	Feb 2015	-		0.190	Continuing	Continuing	-
Contract Management Support Services	C/CPFF	Various DoD : Various	-	1.401	Sep 2013	5.953	Sep 2014	5.150	Sep 2015	-		5.150	-	-	-
Contract Engineering and Technical Services	C/CPFF	MAN-TECH : Various	-	0.220	Feb 2013	2.160	Oct 2013	2.500	Oct 2014	-		2.500	-	-	-
Travel	TBD	DoD : Various	-	0.200		0.200		0.168		-		0.168	-	-	-
Contract Management Support Services	MIPR	SADIE : Various	-	0.400	Mar 2013	0.270	Mar 2014	-		-		-	-	-	-
FFRDC Contract Engineering and Technical Services	FFRDC	Old Dominion University : Norfolk, VA	-	0.180	Dec 2012	0.360	Dec 2013	0.360	Dec 2014	-		0.360	-	-	-
Contract Engineering and Technical Services	MIPR	Bold Quest : Various	-	0.889		2.300		2.300		-		2.300	-	-	-
Contract Engineering and Technical Services	C/CPFF	GTRI : Various	-	0.720	Dec 2012	1.219	Dec 2013	1.300	Dec 2014	-		1.300	-	-	-
Subtotal			-	4.200		12.652		11.968		-		11.968	-	-	-
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	4.200		12.652		11.968		-		11.968	-	-	-
Remarks															