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

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0604826J <i>I Joint C5 Capability Development, Integration, and Interoperability Assessments</i>							
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	0.000	0.000	21.700	23.642	-	23.642	23.638	23.629	23.630	23.630	Continuing	Continuing
001: <i>C5 Assessments and Analyses</i>	0.000	0.000	10.196	12.898	-	12.898	12.898	12.842	12.843	12.843	Continuing	Continuing
002: <i>C5 Capability Development</i>	0.000	0.000	7.079	6.594	-	6.594	6.590	6.637	6.637	6.637	Continuing	Continuing
003: <i>Joint Fires C2 Interoperability</i>	0.000	0.000	4.425	4.150	-	4.150	4.150	4.150	4.150	4.150	Continuing	Continuing

A. Mission Description and Budget Item Justification

Lead command, control, communications, computers, and cyber (C5) assessments, analyses, capability development, and Joint Fires Command and Control (C2) interoperability efforts required to achieve an effective, integrated, and interoperable Joint Force. Efforts include C5 requirements determination, C5 architectures development and integration, C5 data standardization, Joint Fires C2 interoperability, and C5 integration and interoperability assessments. This was a new PE for FY 2016 and consolidates legacy U. S. Joint Forces Command (JFCOM) PEs that transitioned to the Joint Staff in FY 2013 after JFCOM disestablishment. The following PEs are no longer used: 0604828J - Joint Fires Integration and Interoperability Team (JFI), 0604787J - Joint Systems Integration Command (JSI), and 0607828J - Joint Integration and Interoperability (JII).

B. Program Change Summary (\$ in Millions)

	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>
Previous President's Budget	0.000	25.200	23.483	-	23.483
Current President's Budget	0.000	21.700	23.642	-	23.642
Total Adjustments	0.000	-3.500	0.159	-	0.159
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-3.500			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Economic Adjustment	-	-	0.159	-	0.159

Change Summary Explanation

Inflation.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 The Joint Staff										Date: February 2016		
Appropriation/Budget Activity 0400 / 4					R-1 Program Element (Number/Name) PE 0604826J / <i>Joint C5 Capability Development, Integration, and Interoperability Assessments</i>					Project (Number/Name) 001 / <i>C5 Assessments and Analyses</i>		
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
001: <i>C5 Assessments and Analyses</i>	0.000	0.000	10.196	12.898	-	12.898	12.898	12.842	12.843	12.843	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Conduct analysis and assessment activities to inform and enhance Joint warfighter capabilities in support of U.S. National security requirements. Provide 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. Conduct interoperability assessments and analyses that evaluate capability and interoperability of fielded and emerging command, control, communications, computers, and cyber (C5), and systems in response to operational issues and shortfalls. Conduct integration/integration assessment efforts focused on emerging capabilities in wireless devices and security, tactical command and control and networking, satellite communications, advanced secure digital datalinks, and coalition data exchanges.

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

	FY 2015	FY 2016	FY 2017
Title: C5 Assessments and Analyses	-	10.196	12.898
<p>Description: Conduct analysis and assessment activities to inform and enhance Joint warfighter capabilities in support of U.S. National security requirements. Provide 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. Conduct interoperability assessments and analyses that evaluate capability and interoperability of fielded and emerging command, control, communications, computers, and cyber (C5), and systems in response to operational issues and shortfalls. Conduct integration/integration assessment efforts focused on emerging capabilities in wireless devices and security, tactical command and control and networking, satellite communications, advanced secure digital datalinks, and coalition data exchanges.</p> <p>FY 2016 Plans: Conduct interoperability assessments and analysis that evaluate capability and interoperability of fielded and emerging command, control, communications, computers, and cyber (C5), and systems in response to operational issues and shortfalls. FY 2016 focus areas include: Command and Control, Mission Partner Environment, and operations in Cyberspace Capability Development. This includes the impact of technology advances in wireless devices, modem technology, and small secure digital capabilities on warfighter command and control capabilities to match emerging requirements with near-term technology solutions. A comprehensive Joint Task Force (JTF) environment will support the integration and operational assessment process and support cyber training, capability development and assessments, separately and in coordination with the Department of Defense Cyber</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2017 The Joint Staff		Date: February 2016
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604826J / <i>Joint C5 Capability Development, Integration, and Interoperability Assessments</i>	Project (Number/Name) 001 / <i>C5 Assessments and Analyses</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
<p>Range Environment (DECRE). This is achieved by maintaining a persistent C5 laboratory environment that allows for a rapidly reconfigurable joint, coalition, and inter-agency interoperability assessments, including participation in the Coalition Interoperability and Assurance Validation (CIAV) which supports on-going war efforts. In a live setting, a deployable capability allows for range instrumentation and both the collection and analysis of decision quality data for cyber and command and control operations. This objective, joint analysis provides the data and analysis from which Director, Operational Testing and Evaluation decisions are made.</p> <p><i>FY 2017 Plans:</i> FY 2017 focus areas include: Command and Control, Mission Partner Environment, Integrated Air and Missile Defense (IAMD), Joint Fires Support, operations in Cyberspace Capability Development, and Joint Test and Evaluation Digitally Aided Close Air Support (DACAS). Ensure C5 Assessments and Analyses activities are conducted through persistent, reconfigurable C5 laboratories replicating joint and coalition system of systems operational environments that connect to other virtual, constructive, and live environments across national and multi-national operational, research, and test networks leveraging operational venues/exercises. Provide a deployable assessment capability (including contested joint environments) allowing for range instrumentation and both the collection and analysis of decision quality data for command and control operations.</p>			
Accomplishments/Planned Programs Subtotals	-	10.196	12.898

<p>C. Other Program Funding Summary (\$ in Millions) N/A</p> <p>Remarks</p> <p>D. Acquisition Strategy N/A</p> <p>E. Performance Metrics</p> <p>(1) Conduct at least fifteen (15) interoperability assessments designed to identify Joint and Coalition interoperability issues and recommend fixes/solutions to Program Managers, Combatant Commands, Services, and Agencies.</p> <p>(2) Support a minimum of six (6) exercises and events in the field (deployed), providing data collection, analysis, and recommendations based on decision quality data, in order to improve and increase Joint C2 and Joint Fires C2 interoperability.</p> <p>(3) Provide C2 Systems and Persistent command, control, communications, and computers (C4) Environment supporting at least two (2) Combatant Command Exercises to satisfy Combatant Command training objectives, including the cyber threat to mission systems.</p>

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Exhibit R-2A, RDT&E Project Justification: PB 2017 The Joint Staff		Date: February 2016
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604826J / <i>Joint C5 Capability Development, Integration, and Interoperability Assessments</i>	Project (Number/Name) 001 / <i>C5 Assessments and Analyses</i>

- (4) Support a minimum of thirty (30) Coalition Interoperability Assurance and Validation (CIAV) events and provide a minimum of one hundred (100) recommendations to resolve end-to-end mission based interoperability issues, validate Tactics, Techniques, and Procedures, and support NATO Future Mission Networking (FMN) and U.S. Mission Partner Environment (MPE) implementation plans.
- (5) Provide C2 Systems and Persistent C4 Environment supporting at least four (4) individual/team training events per year to meet training and certification objectives.
- (6) Provide C2 Systems and Persistent C4 Environment to support at least two (2) Cyber Assessments supporting Cyber capability development.
- (7) Integrate at least two (2) new capabilities per year supporting Combatant Command, Service, Agency, and Commercial Solutions for Classified and Mobile Computing program requirements.

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 The Joint Staff		Date: February 2016
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604826J / <i>Joint C5 Capability Development, Integration, and Interoperability Assessments</i>	Project (Number/Name) 001 / <i>C5 Assessments and Analyses</i>

	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

Joint C5I	
Joint Information Environment/Mission Partner Environment	████████████████████

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 The Joint Staff		Date: February 2016
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604826J / <i>Joint C5 Capability Development, Integration, and Interoperability Assessments</i>	Project (Number/Name) 001 / <i>C5 Assessments and Analyses</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Joint C5I				
Joint Information Environment/Mission Partner Environment	1	2017	4	2017

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

Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604826J / Joint C5 Capability Development, Integration, and Interoperability Assessments	Project (Number/Name) 002 / C5 Capability Development
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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
002: C5 Capability Development	0.000	0.000	7.079	6.594	-	6.594	6.590	6.637	6.637	6.637	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Lead C2 capability development and integration in order to achieve an interdependent joint force. This will be accomplished through four focus areas: Capability Development, C4 Architectures, Data and Services, and Interoperability and Integration.

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

	FY 2015	FY 2016	FY 2017
Title: C5 Capability Development	-	7.079	6.594
Description: Lead C2 capability development and integration in order to achieve an interdependent joint force. This will be accomplished through four focus areas; Capability Development, C4 Architectures, Data and Services, and Interoperability and Integration.			
FY 2016 Plans: Functionally manage and develop joint C4/Cyber (C5) Joint Capabilities Integration and Development System (JCIDS) requirements and capability development needs and serves as direct liaison between operational users and material developers throughout the capability lifecycle. Coordinate with warfighter community, to include multi-national and other mission partners, to identify common requirements and priorities and to identify on-going and planned partner materiel and non-materiel efforts to address similar/common needs and capability gaps. Integration actions include the continued development and implementation of Mission Partner Environment (MPE) capabilities framework. Develop and integrate data and services requirements, standards, technical specifications, and policy to support improved interoperability and information sharing with joint, mission partners and other U.S. Government departments and agencies. Develop architectures and conduct analysis for the Joint Information Environment (JIE), Warfighting Mission Area (WMA), mission threads, best practices, and JCIDS documents that enables interoperability and integration. Provide a WMA Federated Architecture sharing environment for the Combatant Commands, Services and DoD agencies ensuring access, integration, and reusability off architecture artifacts. Collaborate with USD for Acquisition, Technology, and Logistics (AT&L), DoD Chief Information Officer (CIO), Combatant Commands, Services, Agencies, interagency and multinational partners to address integration and interoperability with joint and multinational forces, and other U.S. Government departments and agencies.			
FY 2017 Plans: Lead C2 capability development and integration in order to achieve an interdependent joint force. This will be accomplished through four focus areas;			

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Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604826J / <i>Joint C5 Capability Development, Integration, and Interoperability Assessments</i>	Project (Number/Name) 002 / <i>C5 Capability Development</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
<p>(1) Capability Development - Sustain and utilize the Net-Enabled Requirements Identification Database (NRID) and the Decision Support Tool (DST) to provide accessibility and visibility into C2 capability needs and potential solutions for C2 stakeholders and decision-makers to consider. Develop/coordinate the annual Joint C2 Operational Priorities and obtain JROC-approval. Develop/staff the FY 2019 Requirements Prioritization and Sequencing Plan and JCIDS documents - supports C2 capability prioritization and sequencing via the OUSD(AT&L)-sponsored Joint C2 Sustainment and Modernization Plan (SMP) process, with follow-on C2 capability production, integration, fielding and sustainment.</p> <p>(2) C4 Architectures - Develop architectures and conduct analysis for the Joint Information Environment (JIE), Mission Partner Environment (MPE), Warfighting Mission area (WMA), mission threads, best practices, C5 requirements and JCIDS documents that enables interoperability and integration. Provide a WMA Federated Architecture sharing environment for the Combatant Command, services and DoD agencies ensuring access, integration and reusability of architecture artifacts. Provide the analysis and integration of identified combat proven Special Operation Forces C2 “best practices” and demonstrate the benefits these integrated capabilities bring to Joint/Coalition forces and other agencies.</p> <p>(3) Data and Services - Develop, promote and integrate data and services requirements, standards, technical specifications, and policy to support improved interoperability and information sharing with joint, mission partners and other U.S. Government departments and agencies.</p> <p>(4) Interoperability and Integration - For DoD coalition operations, develop and track the FY 2017 Mission Partner Action Plan for CCMD, Service and Agency action. Establish a Federated Mission Networking threshold capability in NATO. Coordinate with NATO and partner nation Foreign Liaison Officers (FLOs) to identify and execute specific information sharing/collaboration initiatives. Support Afghan Mission Network integration and interoperability requirements. Support cyber training, capability development and assessments, separately and in coordination with the Department of Defense Cyber Range Environment (DECRE).</p>			
Accomplishments/Planned Programs Subtotals	-	7.079	6.594

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

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Exhibit R-2A, RDT&E Project Justification: PB 2017 The Joint Staff		Date: February 2016
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D. Acquisition Strategy N/A		
E. Performance Metrics		
<p>1) Secure JROC approval of the FY 2019 Joint C2 operational priorities defining C2 capability needs/gaps providing senior level oversight and direction to Joint C2 capability development.</p> <p>(2) Secure DoD approval for seven (7) JCIDS requirements documents to support materiel development of Joint C2, Adaptive Planning/Execution, Global-Theater Security Cooperation, Readiness, and Cross Functional information technology capabilities enabling timely delivery of materiel solutions to meet warfighter capability needs/gaps.</p> <p>(3) Ensure Joint C2 requirements development supports the DoD-directed Better Buying Power 100% by continuing the rapid development and fielding of virtualized C2 system capabilities to CCMDs and Services, i.e., GCCS-J Global (COP & I3), Agile Client—an x86 (PC-based) infrastructure, Enterprise Widget Storefront for web access of Joint C2 data and applications, Joint Planning and Execution Services to replace legacy systems.</p> <p>(4) Provide two (2) planned releases of Global-Theater Security Cooperation Management Information System (G-TSCMIS) capability on both NIPRnet & SIPRnet for CCMDs/Services allowing G-TSCMIS use in a disconnected, intermittent, or limited bandwidth (DIL) environment, as well as providing an initial cross domain data exchange capability between security levels.</p> <p>(5) Validate the architectures and engineering design specifications for twenty-seven (27) JIE and MPE projects.</p> <p>(6) Conduct three (3) National Information Exchange Model Military Operations Domain Configuration Control Board sessions to improve and increase information sharing via promulgation of one Domain content update.</p> <p>(7) Lead a minimum of six (6) Enterprise Service and Data Panels (ESDP) with the goal to improve and increase the interoperability and reusability of DOD Enterprise Services and Authoritative Data Sources.</p> <p>(8) Include mission partnering concepts in four (4) Combatant Command and Service exercises.</p> <p>(9) Establish at least two (2) new or enhanced information/sharing and collaboration areas NLT 30 Jun 17.</p> <p>(10) Establish and refine processes and procedures to ensure FMN implementation is included in two (2) NATO exercises.</p>		

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

Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604826J / <i>Joint C5 Capability Development, Integration, and Interoperability Assessments</i>	Project (Number/Name) 002 / <i>C5 Capability Development</i>
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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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			
C5 Capability Development - Contracts	C/FP	Various : Various	-	-		7.079		6.594	Sep 2015	-		6.594	-	-	-
Subtotal			-	-		7.079		6.594		-		6.594	-	-	-
Project Cost Totals			-	-		7.079		6.594		-		6.594	-	-	-

Remarks
 This is a new Program Element (PE) for FY 2016 and consolidates legacy U. S. Joint Forces Command (JFCOM) PEs that transitioned to the Joint Staff in FY 2013 as a result of the JFCOM disestablishment. The following PEs will no longer be used after FY 2015: 0604828J - Joint FIRES Integration and Interoperability Team (JFI), 0604787J - Joint Systems Integration Command (JSI), and 0607828J - Joint Integration and Interoperability (JII).

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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

<i>Joint C4 architecture and C4/Cyber capability development</i>	
Joint C4 architecture and C4/Cyber capability development	██████████

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 The Joint Staff		Date: February 2016
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604826J / <i>Joint C5 Capability Development, Integration, and Interoperability Assessments</i>	Project (Number/Name) 002 / <i>C5 Capability Development</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Joint C4 architecture and C4/Cyber capability development</i>				
Joint C4 architecture and C4/Cyber capability development	1	2017	4	2017

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Exhibit R-2A, RDT&E Project Justification: PB 2017 The Joint Staff										Date: February 2016		
Appropriation/Budget Activity 0400 / 4					R-1 Program Element (Number/Name) PE 0604826J / Joint C5 Capability Development, Integration, and Interoperability Assessments					Project (Number/Name) 003 / Joint Fires C2 Interoperability		
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
003: Joint Fires C2 Interoperability	0.000	0.000	4.425	4.150	-	4.150	4.150	4.150	4.150	4.150	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

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. Conduct Joint Fire Support (JFS)/Joint Close Air Support (JCAS) and CID-FFT action plans to fulfill CJCSI-directed, General Officer/Flag Officer (GOFO) level responsibilities. Conduct JFS Executive Steering Committee (ESC) standardization team accreditation visits to U.S. and partner nation schoolhouses to ensure Memorandum of Agreement (MOA) signatories are accomplishing schoolhouse training in compliance with the Memorandums.

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

	FY 2015	FY 2016	FY 2017
Title: Joint Fires C2 Interoperability	-	4.425	4.150
<p>Description: 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. Conduct Joint Fire Support (JFS)/Joint Close Air Support (JCAS) and CID-FFT action plans to fulfill CJCSI-directed, General Officer/Flag Officer (GOFO) level responsibilities. Conduct JFS Executive Steering Committee (ESC) standardization team accreditation visits to U.S. and partner nation schoolhouses to ensure Memorandum of Agreement (MOA) signatories are accomplishing schoolhouse training in compliance with the Memorandums. Execute Joint Staff-sponsored Bold Quest 2017 systems-of-systems interoperability assessment, including integration of Cyber capabilities with command and control of Conventional and Special Operations Force missions from a multinational perspective at the tactical level. These efforts directly support 2014 Quadrennial Defense Review and 2015 National Military Strategy goals to increase interoperability with allies and partners.</p>			
<p>FY 2016 Plans: 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. Conduct Joint Fire Support (JFS)/ Joint Close Air Support (JCAS) and CID-FFT action plans to fulfill JROC-chartered, General Officer/Flag Officer (GOFO) level responsibilities. Conduct JFS Executive Steering Committee (ESC) standardization team accreditation visits to U.S. and partner nation schoolhouses to ensure Memorandum of Agreement (MOA) signatories are accomplishing schoolhouse training in compliance with the Memorandums. Execute Joint Staff-sponsored Bold Quest 2016 systems-of-systems interoperability</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017
assessment, including integration of Cyber capabilities with command and control of Conventional and Special Operations Force missions from a multinational perspective at the tactical level. FY 2017 Plans: Execute Joint Staff-sponsored Bold Quest 2017 systems-of-systems interoperability assessment, including integration of Cyber capabilities with command and control of Conventional and Special Operations Force missions from a multinational perspective at the tactical level. These efforts directly support 2014 Quadrennial Defense Review and 2015 National Military Strategy goals to increase interoperability with allies and partners.			
Accomplishments/Planned Programs Subtotals	-	4.425	4.150

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

Remarks

D. Acquisition Strategy
N/A

- E. Performance Metrics**
- (1) Lead development of situational 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.
 - (2) Synchronize Service testing, acquisition and fielding of Mode 5 IFF capability, with focus on Full Operational Capability (FOC) in 2020. Monitor Service fielding progress of one hundred sixty-nine (169) platform types.
 - (3) Complete Definition Package for Block 2 of Digitally Aided Close Air Support (DACAS) coordinated implementation in conjunction with participating Service programs of record. Effort will enable over twenty (20) U.S. and partner nation systems to be more interoperable in the CAS mission area.
 - (4) Expand digital call-for-fire solution development to include enhanced multi-national interoperability with six (6) partner nations.
 - (5) Conduct Accreditation Assessments for fourteen (14) of thirty current signatory schoolhouses (8 Joint Terminal Attack Controller (JTAC), 2 Forward Air Controller (Airborne), and 4 Joint Fires Observer (JFO) Schoolhouses).
 - (6) Lead development and refinement of four (4) U.S. and NATO joint fires-related doctrine and Tactics, Techniques, and Procedures (TTP) publications.

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(7) Lead planning, coordination and execution of two (2) Bold Quest 2017 systems of systems interoperability assessment to facilitate U.S. and coalition integration.

(8) Plan and conduct quarterly Joint Fire Support and Combat ID-Friendly Force Tracking Executive Steering Committee and working group meetings to address identified shortfalls in those mission areas.

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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

<i>Advance Innovations to accelerate C2 capabilities</i>	
Advance Innovations to accelerate C2 capabilities	██████████

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 The Joint Staff		Date: February 2016
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604826J / <i>Joint C5 Capability Development, Integration, and Interoperability Assessments</i>	Project (Number/Name) 003 / <i>Joint Fires C2 Interoperability</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Advance Innovations to accelerate C2 capabilities</i>				
Advance Innovations to accelerate C2 capabilities	1	2017	4	2017

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