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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Office of Secretary Of Defense **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>				PE 0604787D8Z: <i>Joint Systems Integration Command</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	17.941	19.413	13.024	-	13.024	12.107	12.345	12.591	12.824	Continuing	Continuing
P787: <i>Joint Systems Integration Command</i>	17.941	19.413	13.024	-	13.024	12.107	12.345	12.591	12.824	Continuing	Continuing

Note

At the time of this submission, the Department of Defense is developing the Joint program strategy and objectives for FY 12 and beyond. This is as a result of the decision to disestablish U.S. Joint Forces Command, and the Secretary of Defense's efficiency initiatives. Any additional changes for FY12 projects and objectives will be provided when available.

A. Mission Description and Budget Item Justification

The Joint Systems Integration Command Program Element (JSIC PE) provides mission funding for the Joint System Integration Center (JSIC) to conduct interoperability assessments, and develop solutions/recommendations to improve integration of Service, Defense Agency, and coalition systems. JSIC promotes Service/Defense Agency C2 capability integration, and conducts technical, operational, and DOTMLPF assessments of Command and Control (C2) and Command, Control, Computer, Communication, Intelligence, Surveillance and Reconnaissance (C4ISR) capabilities. JSIC serves as the technical analysis and operational assessment activity in support of the Joint Staff capability-driven requirements process, the Joint Capabilities Integration and Development System (JCIDS). JSIC also serves as a joint interoperability compliance activity for the milestone decision authorities/program managers in the Defense acquisition enterprise.

The FY 2005 National Defense Authorization Act (NDAA) directed the transfer for Research, Development, Test and Evaluation (RDT&E) funding for joint warfare experimentation and training programs from Navy accounts to new Defense Wide RDT&E accounts beginning in FY 2007. Joint Staff J8 is the executive agent for the JSIC PE and Director, Defense Research & Engineering (DDR&E) provides execution oversight.

JSIC provides Combatant Commands, at the joint force headquarters level, with a laboratory and assessment environment for the warfighter and capability developer. This environment provides for assessment of current and near-term joint and coalition capabilities primarily at the operational and tactical levels. JSIC's Persistent Command and Control (C2) Environment accurately replicates an operational C2 environment. With this capability, JSIC assesses system of systems interoperability, operational capability, procedural compliance and technical suitability of emerging and existing systems and programs to confirm readiness for deployment. Through JSIC's analysis and assessment, systems are evaluated for "value-added" prior to employment in joint and coalition environments typical of deployed theaters of operation.

By establishing ground truth for interoperability and suggesting remedies for demonstrated shortfalls, JSIC is an enabler for interoperable joint and coalition solutions and provides a means to foster rapid, near-term insertion of C4ISR technology by promoting the ability to meet the DoD direction for spiral development and evolutionary acquisition. JSIC's mission is to provide for the fielding of warfighter C2 systems through rapid systems integration, technical assessment, and operational evaluation using laboratory environments and field venues. In the world of C2 and ISR interoperability, performance in the field is the bottom line. In terms of investment, JSIC is the "ounce of prevention" that precludes a "pound" of mission failure and loss of life due to interoperability failures in military operations.

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B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	19.744	19.413	19.561	-	19.561
Current President's Budget	17.941	19.413	13.024	-	13.024
Total Adjustments	-1.803	-	-6.537	-	-6.537
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.493	-			
• Other Program Adjustments	-1.310	-	-	-	-
• Defense Efficiency - JFCOM Task Force	-	-	-6.052	-	-6.052
• Defense Efficiency – Baseline Review	-	-	-0.121	-	-0.121
• Defense Efficiency – Report, Studies, Boards and Commissions	-	-	-0.339	-	-0.339
• Economic Assumptions	-	-	-0.025	-	-0.025

Change Summary Explanation

Defense Efficiency – JFCOM Task Force. As part of the Department of Defense reform agenda, a zero-based review of the organization to align resources to the most critical priorities and eliminate lower priority functions. This is a result of the decision to disestablish U.S. Joint Forces Command, and the Secretary of Defense's efficiency initiatives. Any additional changes for FY12 projects and objectives will be provided when available.

Defense Efficiency – Baseline Review. As part of the Department of Defense reform agenda, implements a zero-based review of the organization to align resources to the most critical priorities and eliminate lower priority functions.

Defense Efficiency – Report, Studies, Boards and Commissions. As part of the Department of Defense reform agenda, reflects a reduction in the number and cost of reports, studies, DoD Boards and DoD Commissions below the aggregate level reported in previous budget submission.

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604787D8Z: <i>Joint Systems Integration Command</i>	PROJECT P787: <i>Joint Systems Integration Command</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
P787: <i>Joint Systems Integration Command</i>	17.941	19.413	13.024	-	13.024	12.107	12.345	12.591	12.824	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Joint Systems Integration Command Program Element (JSIC PE) provides mission funding for the Joint System Integration Center (JSIC) to conduct interoperability assessments, and develop solutions/recommendations to improve integration of Service, Defense Agency, and coalition systems. JSIC promotes Service/Defense Agency C2 capability integration, and conducts technical, operational, and DOTMLPF assessments of Command and Control (C2) and Command, Control, Computer, Communication, Intelligence, Surveillance and Reconnaissance (C4ISR) capabilities. JSIC serves as the technical analysis and operational assessment activity in support of the Joint Staff capability-driven requirements process, the Joint Capabilities Integration and Development System (JCIDS). JSIC also serves as a joint interoperability compliance activity for the milestone decision authorities/program managers in the Defense acquisition enterprise.

The FY 2005 National Defense Authorization Act (NDAA) directed the transfer for Research, Development, Test and Evaluation (RDT&E) funding for joint warfare experimentation and training programs from Navy accounts to new Defense Wide RDT&E accounts beginning in FY 2007. Joint Staff J8 is the executive agent for the JSIC PE and Director, Defense Research & Engineering (DDR&E) provides execution oversight.

JSIC provides Combatant Commands, at the joint force headquarters level, with a laboratory and assessment environment for the warfighter and capability developer. This environment provides for assessment of current and near-term joint and coalition capabilities primarily at the operational and tactical levels. JSIC's Persistent Command and Control (C2) Environment accurately replicates an operational C2 environment. With this capability, JSIC assesses system of systems interoperability, operational capability, procedural compliance and technical suitability of emerging and existing systems and programs to confirm readiness for deployment. Through JSIC's analysis and assessment, systems are evaluated for "value-added" prior to employment in joint and coalition environments typical of deployed theaters of operation.

By establishing ground truth for interoperability and suggesting remedies for demonstrated shortfalls, JSIC is an enabler for interoperable joint and coalition solutions and provides a means to foster rapid, near-term insertion of C4ISR technology by promoting the ability to meet the DoD direction for spiral development and evolutionary acquisition. JSIC's mission is to provide for the fielding of warfighter C2 systems through rapid systems integration, technical assessment, and operational evaluation using laboratory environments and field venues. In the world of C2 and ISR interoperability, performance in the field is the bottom line. In terms of investment, JSIC is the "ounce of prevention" that precludes a "pound" of mission failure and loss of life due to interoperability failures in military operations.

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

	FY 2010	FY 2011	FY 2012
Title: Interoperability Technology Demonstration Center (ITDC) and Interoperability Assessments (IA)	10.141	11.346	6.635

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
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Description: Primary outcome (objective) for this effort is seamless interoperability between DoD systems supporting the warfighter. ITDC supports the interoperability assessment of systems in five categories: operational, system of systems, technical, software, and procedural. Assessment projects identified for FY 2011 will focus on: Operations and Intelligence Integration, Tactical Edge Integration, Complex Problem Analysis, Acquisition Process Support, and Service-Oriented Architecture Migration. These assessments provide supporting justification for continued development of a program within the acquisition system and resolve capability shortfalls of fielded systems.

FY 2010 Accomplishments:

Conducted the following interoperability assessments of C2 systems/applications in support of Combatant Commanders, Services, and Agencies at a cost of \$9,940K:

Operations and Intelligence Integration activities include:

Joint System Baseline Assessments 2010 (JSBA10) –Assessed the ability of commanders to discover, access, and coordinate information from the Distributed Control Ground System (DCGS) program and the Global Command and Control System-Joint (GCCS-J) family of systems to identify key interoperability issues during the following exercises and activities:

Austere Challenge 10 (AC10) – Assessed the interoperability of joint and coalition Command and Control Intelligence, Surveillance, Reconnaissance, and Targeting (C2ISRT) systems, databases, and net-centric services for Combined Forces Air Component Command (CFACC) operations in a Coalition Air Operations Center (CAOC) environment and the interoperability of joint and coalition systems, databases, and net-centric services for Joint Targeting and Intelligence operations in a Coalition Joint Task Force (CJTF) environment.

Empire Challenge 10 (EC10) – Assessed five Joint Capability Threads (JCT); Distributed Common Ground System (DCGS) enterprise interoperability, data integration to support operations in a complex environment, persistent surveillance over key terrain, civilian casualty and fratricide reduction, and information sharing to support multinational/whole-of-government interoperability.

Trident Warrior 10 (TW10) – Assessed the interoperability to ingest Full Motion Video (FMV) from a Tactical Unmanned Air Vehicle (TUAV), to the Distributed Common Ground System-Navy (DCGS-N) segment and subsequent sharing to the Global Command and Control System – Joint (GCCS-J).

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
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PRISM to MAJIIC Interoperability Assessment –Assessed that Planning Tool for Resource, Integration, Synchronization and Management (PRISM) and the interface to NATO Multi-Sensor Aerospace-Ground Joint ISR Interoperability Coalition (MAJIIC) was functional and ready for operations by demonstrating automated interoperability and exchange of intelligence requirements.

Command and Control Intelligence, Surveillance, and Reconnaissance (C2-ISR) Interoperability Assessment 2010 – In coordination with the Joint Intelligence Interoperability Board (JIIB), resolved Integrated Priority List (IPL) problem statements by conducting interoperability assessments during major events. FY10 issues addressed assessment of the capability of Global Command and Control Systems-Joint (GCCS-J) and Distributed Common Ground Systems (DCGS) to share intelligence data that is automatically rendered or visualized in the common operational picture and the ability of a C2 node to automatically access and view collection management information.

Joint Integrated Air and Missile Defense Organization (JIAMDO) Joint Sensor Integration (JSI) - Provided a Joint Force Marine Component Commander (JFMCC) node and Joint Task Force Headquarters (JTFHQ) node on the Secure Defense Research and Engineering Network (SDREN). Provided maintenance and technical support, Voice Over Internet Protocol (VoIP) phones, NIPRNET and SIPRNET.

Tactical Edge Integration activities include:

NGA Image Product Library (IPL) v6.5.1 Interoperability Assessment - Assessed the interoperability of IPL v6.5.1 software with Global Command and Control System-Joint (GCCS-J) segments and interfaces including Joint Targeting Toolbox (JTT), Analyst Workshop (AWS)/Java Image and Video Exploitation (JIVE) ingestor, and Image which optimized delivery of critically important imagery warfighter customers.

Afghanistan Mission Network (AMN) Coalition Interoperability Assurance Validation Assessment – This on-going series of events supports the International Security Assistance Forces (ISAF) Joint Command (IJC) through CENTCOM’s Task Force 236 in collaboration with Joint Interoperability Test Command (JITC), the United Kingdom C2 Battle Lab (C2BL), NATO Consultation, Command and Control Agency (NC3A) and NATO Communications and Information Systems Services Agency (NCSA) to assess, identify and resolve joint and coalition communications interoperability and integration problems.

Complex Problem Analysis activities include:

FY 2010	FY 2011	FY 2012

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011
<p>C2 Capability Portfolio Manager (CPM) Focus Integration Team (FIT) Support for C2 On-the-Move (OTM) – Supported the C2 OTM FIT assess the core functional requirements for C2 OTM systems. Developed innovative tools and techniques to support analysis of C2 based on technical, operational, and programmatic criteria that support the C2 community of interest at large.</p> <p>Command and Control Registry (C2R)/C2 Pedia Development – Reengineered the C2R database to accommodate a variety of data types and multiple data sets and integrate a highly robust enterprise search engine that supports advanced data discovery, mining and aggregation across the web.</p> <p>Visual C2 Capability Analysis and Tradeoff Suite (VCATS) – Initiated prototype development of an assessment framework and interactive “dashboard” to demonstrate the ability to make C2 Doctrine, Organization, Training, Material, Leadership, Personnel, and Facilities (DOTMLPF) tradeoffs and recommendations.</p> <p>Acquisition Process support activities include:</p> <p>Coalition Warrior Interoperability Demonstration 2010 (CWID10) Selected Trial Assessments – Assessed six interoperability trials and implemented improvements to the CWID assessment and reporting process.</p> <p>Global Command and Control System-Joint (GCCS-J) Block V Post Implementation Review (PIR) – Performed phase I data collection and analysis on behalf of the operational sponsor’s sustainment and synchronization requirements for GCCS-J PIR.</p> <p>Service Oriented Architecture (SOA) Migration activities include:</p> <p>Net-Centric Security Pilot Assessment – Assessment demonstrated the ability for different security implementations to interact with different data sources, demonstrated service policies are actionable and usable by using enhanced applications and data security, demonstrated the use of Attribute Based Access Control (ABAC) methodology at the enterprise and local level, utilized enterprise attribute service necessary to pre-populate user account request, and demonstrated real-time changes in access control policies by allowing other users to access data.</p> <p>C2 Data Pilot Phase 4A – Assessment demonstrated the ability to transition identified Authoritative Data Source (ADS) from legacy architecture to a Service Oriented Architecture (SOA) approach, established an approach toward a joint forces solution for interfacing with ADS using Global Force Management Tool Set (GFMTS) in a SOA environment, and demonstrated GFMTS capability to significantly reduce the time spent by operators gathering and compiling data, thereby allowing operators more time to analyze information.</p>		

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<p>C2 Data Pilot Phase 4B - Assessed the ability of Global Force Management Tool Set (GFMTS) to rapidly expose data to identified Command and Control (C2) Authoritative Data Sources (ADS) through the use of web services.</p> <p>FY 2011 Plans: Continue conducting interoperability assessments and demonstrations of Command and Control (C2) developmental systems/ applications for Combatant Commanders, Services, and Agencies that support Operations and Intelligence Integration, Tactical Edge Integration, Capability Gap Analysis, Acquisition Process Support, and Service Oriented Architecture Migration activities.</p> <p>Operations and Intelligence Integration activities include:</p> <p>Joint System Baseline Assessments 2011 (JSBA11) - Assessments will focus on three major interoperability problem areas that impair information sharing: information exchanges between the Command and Control and Battlespace Awareness portfolios, joint/coalition targeting, and coalition operations.</p> <p>NATO Targeting Systems Interoperability Assessment (NTSIA) – Assess changes to US and NATO targeting system interoperability to include potential solutions to permit semi-automated exchanges of critical targeting data.</p> <p>Command and Control, Intelligence, Surveillance, Reconnaissance, and Targeting (C2ISR) Interoperability Assessment – Conduct interoperability assessments to support resolution of Integrated Priority List (IPL) and Joint Urgent Operation Need Statements (JUONS)and improve operations and intelligence interoperability.</p> <p>TALISMAN SABRE Interoperability Assessment – Assess selected US and coalition Command, Control, Intelligence, Surveillance, Reconnaissance and Targeting (C2ISR) applications and compare results with the European theater.</p> <p>Trident Warrior 2011 (TW11) Interoperability Assessments - Assess the joint interoperability of the Distributed Common Ground System-Navy (DCGS-N) segments and joint C2 nodes.</p> <p>Empire Challenge 11 (EC11) – Perform assessments of emerging Intelligence, Surveillance, and Reconnaissance (ISR) capabilities and assess joint/coalition interoperability in support of the International Security Assistance Force (ISAF).</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012
<p>Afghanistan Mission Network (AMN) Coalition Interoperability Assurance Validation Assessment – Conduct an interoperability assessment of coalition common operational picture management systems to determine interoperability and functionality in a coalition/joint mission environment.</p> <p>Tactical Edge Integration activities include:</p> <p>Joint Integrated Air and Missile Defense Organization (JIAMDO) Assessment Support - Assess three Joint Distributed Engineering Plant (JDEP) event candidates; Joint/Multi-Service Sensor Integration (J/MSI); Integrated Air and Missile (IAMD) Common Operational Picture (COP); and Joint IAMD Net-Centric Warfare Integrated Planning (JNWIP).</p> <p>Acquisition Process Support activities include:</p> <p>Coalition Warrior Interoperability Demonstration 2011 (CWID11) Selected Trial Assessments - CWID explores solutions aimed at enhancing interoperability and information sharing with multinational coalition participation as a cornerstone. Conduct assessments of selected interoperability trials.</p> <p>Tactical Edge Data Solutions (TEDS) JCTD Assessment – Conduct a limited interoperability assessment focusing on movement of information and data between a Marine Battalion Combat Operations Center and an Army Battalion Tactical Operations Center.</p> <p>Global Command and Control System-Joint (GCCS-J) Block V Post Implementation Review (PIR) Assessment – Continue phase 2 &3 data collection and analysis on behalf of the operational sponsor’s sustainment and synchronization requirements for GCCS-J PIR to ensure the needs of the warfighter.</p> <p>Capability Gap Analysis activities include:</p> <p>Command and Control (C2) Central - Continue to expand C2 Central’s comprehensive system descriptions; document library; images; architectures; analysis and visualization tools capabilities; yellow pages and interactive calendar of events and further refine search engine capabilities for the user.</p> <p>Joint Irregular Warfare Center (JIWC) Joint Urban Operations (JUO) Command and Control (C2) Capability Analysis - 141 JUO related tasks have been mapped to capability gaps through several JIWC led analytical efforts. Mapping of these tasks to the Joint Common Systems Function List (JCSFL) provides a common baseline for conducting analysis aimed at gap mitigation. Additionally, the JUO task mapping will be integrated into C2 Central and made available to all users.</p>				

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011
<p>Networks and Information Integration/Capability Development Increment (NII/CDI) Analysis – Update the functionality of 43 systems and document the refined mapping process. Utilizing C2 capability delivery increments articulate the collective capabilities with the C2 portfolio for a given period of time and provide a basis for an analytical understanding of a system, program, or initiative’s role in delivering C2 capabilities.</p> <p>Service Oriented Architecture Migration activities include:</p> <p>Joint Interoperability Assessment Net-Centric Tool (JIANT) Phase 2 Development - JIANT is a web-based architecture-centric tool that is accessible concurrently by analysts involved in the assessment planning process. It supports automated mission thread analysis, assessment planning, and data collection in distributed environments.</p> <p>Visual Command and Control Capability Analysis and Tradeoff Suite (VCATS) Continuation – Further development of an assessment framework and an interactive “dashboard” to demonstrate the ability to make C2 Doctrine, Organization, Training, Material, Leadership, Personnel, and Facilities (DOTMLPF) tradeoffs and recommendations.</p> <p>FY 2012 Plans: Continue the efforts initiated for FY 2011 and respond to unpredictable operational issues and shortfalls. Interoperability demonstrations will be conducted to solve warfighter problems, including coalition challenges. Focus areas will include the Global Command and Control System-Joint (GCCS-J) family of systems, Distributed Common Ground System (DCGS) and interoperability with coalition systems.</p> <p>Operations and Intelligence Integration activities include:</p> <p>Joint System Baseline Assessments 2012 (JSBA12) - Assessments will focus on problem areas that impair information sharing: information exchanges between the Command and Control and Battlespace Awareness portfolios and coalition operations.</p> <p>Command and Control, Intelligence, Surveillance, Reconnaissance, and Targeting (C2ISR) Interoperability Assessment – Conduct interoperability assessments to support resolution of Integrated Priority List (IPL) and Joint Urgent Operation Need Statements (JUONS)and improve operations and intelligence interoperability.</p> <p>TALISMAN SABRE Interoperability Assessment – Assess selected US and coalition Command, Control, Intelligence, Surveillance, Reconnaissance and Targeting (C2ISR) applications.</p>			

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<p>Trident Warrior 2012 (TW12) Interoperability Assessments - Assess the joint interoperability of joint C2 nodes.</p> <p>Empire Challenge 12 (EC12) – Perform assessments of emerging Intelligence, Surveillance, and Reconnaissance (ISR) capabilities and assess joint/coalition interoperability.</p> <p>Afghanistan Mission Network (AMN) Coalition Interoperability Assurance Validation Assessment – Conduct interoperability assessments of coalition systems to determine interoperability and functionality in a coalition/joint mission environment.</p> <p>Tactical Edge Integration activities include:</p> <p>Joint Integrated Air and Missile Defense Organization (JIAMDO) Assessment Support - Assess three Joint Distributed Engineering Plant (JDEP) event candidates; Joint/Multi-Service Sensor Integration (J/MSI); Integrated Air and Missile (IAMD) Common Operational Picture (COP); and Joint IAMD Net-Centric Warfare Integrated Planning (JNWIP).</p>				
<p>Title: Technical Assessments and Integration (TA&I)</p> <p>Description: Primary Outcome (objective) for this effort is to provide near-term technical solutions for integration, assessment and delivery of operational capabilities that address near-term operational and tactical requirements. TA&I use organic laboratory resources, equipment, and technical personnel to integrate emerging technologies. JSIC also provides Doctrine, Organizational, Training, Materiel, Leadership, Personnel, Facilities (DOTMLPF) recommendations on fielding strategies for Joint Staff endorsement. TA&I capability gap areas of concentration identified include; Tactical Edge Integration, and Acquisition Process Support activities.</p> <p>The primary outputs and efficiencies realized are: 1) Reduced costs and delivery time to the warfighter through application of commercial and emerging technology to solve near-term Combatant Commander (COCOM) Command and Control (C2) capability gaps; 2) Increased cost avoidance through transition of successful commercial technology integration shortfalls to applicable Service programs of record; 3) Decreased reliance on post delivery interoperability corrections; 4) Improved assessment-based recommendations of technology solutions that address the military utility of proposed solutions and identify relevant service programs, doctrinal impacts, training implications, and personnel requirements; and 5) Improved life-cycle support for capabilities deployed to forces.</p> <p>FY 2010 Accomplishments:</p>		2.800	2.961	3.472

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
<p>Conducted the following technical assessments and integration of C2 systems/applications in support of Combatant Commanders, Services, and Agencies at a cost of \$2,800K:</p> <p>Tactical Cellular Network (TactiCell) - Provided technical and engineering services and developed test architectures and plans to use Evolution Data Optimized (EVDO) cell phones to receive voice, video, and data information. TactiCell established and maintained voice communication between legacy tactical radios and cellular handsets, initiated and maintained Voice over Secure Internet Protocol (VoSIP) calls, conducted secure Video Teleconferencing (VTC) at various data rates, pulled Unmanned Aerial Vehicle (UAV) streaming video while on the move and roaming between cellular nodes, and used mobile phone applications to perform Blue Force Tracking (BFT) display, video streaming, white boarding and chat functions. Adopted and sustained as a key component of the USSOCOM program, High Bandwidth-Command and Control on the Move (HB-COTM).</p> <p>Deployable Executive Communications (DEC) – Delivered an approved and certified capability that provides secure, modern, lightweight and versatile communications capability including Video Teleconferencing (VTC), Voice-over-Internet-Protocol (VoIP), Voice-over-Secure-Internet-Protocol (VoSIP), and access to the SIPRNet, NIPRNet, and other networks.</p> <p>Tactical Service Provider (TSP)Joint Concept Technology Demonstration (JCTD) - Demonstrated warfighting application and usefulness of a hybrid communications architecture that uses emerging standards-based, commercial-off-the-shelf satellite communications and wireless technology to extend global, wideband communications and subscriber services to the tactical edge. DISA will adopt TSP as a program of record under the Global Broadcast System (GBS) umbrella.</p> <p>National Security Agency (NSA) Secure Wireless LAN (SWLAN) Technical Assessment – Conducted a pilot implementation of NSA/I732 Secure Wireless LAN (SWLAN) Architecture, which provided feedback from system administrators and end-users, on configuration and integration issues/concerns, along with post assessment recommendations.</p> <p>SecNet 54 Technical Assessment - Assessed the utility of SecNet 54 in various wired and wireless configurations for data throughput, ease of configuration and setup, interoperability with other wireless devices, and utility to the warfighter as an In-Line Encryptor (INE), Access Point (AP) and wireless bridge.</p> <p>FY 2011 Plans: Command and Control (C2) Applications Over Broadband Cellular Technical Assessment – Provide a technical and functional assessment of C2 applications; Joint Automated Deep Operations Coordination System (JADOCS), Command and Control Personal Computer (C2PC); Force XXI Battle Command, Brigade-and-Below (FBCB2), and Adobe Connect over broadband cellular.</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secretary Of Defense		DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0604787D8Z: <i>Joint Systems Integration Command</i>	PROJECT P787: <i>Joint Systems Integration Command</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011
<p>National Security Agency (NSA) Secure Wireless LAN (SWLAN) Technical Assessment Continuation – Conducting a pilot implementation of NSA/I732 Secure Wireless LAN (SWLAN) Architecture, which provided feedback from system administrators and end-users, on configuration and integration issues/concerns, along with post assessment recommendations.</p> <p>Intelligence, Surveillance and Reconnaissance Video Dissemination Technologies – Perform technical integration to validate industry-standard video technology and networking protocols Livecast, MediaFLO, and Inca-X are interoperable with selected systems and architectures.</p> <p>Army Joint Tactical Wireless Communications Capability (JTWCC) Assessment Support – Provide broadband cellular technical subject matter experts and Command and Control (C2) Applications Over Broadband Cellular suite for use as a tool to evaluate multiple broadband solutions.</p> <p>National Security Agency (NSA) Suite B Encryption Integration and Utility Assessment – Provide network and technical assistance to NSA in the development of a Suite B software encryption solution. Suite B software provides encryption capability without the use of Type 1 encryption devices (hardware) thereby reducing security risks.</p> <p>C2 Link Aggregation Technical Assessment –Validate the KenCast FaZZT software’s ability to aggregate an internet protocol stream across diverse, error prone, dynamic bandwidth, and Network Address Translated (NAT) links with varying end to end latencies and then combine the streams back together.</p> <p>FY 2012 Plans: Continue FY 2011 initiatives investigating potential impacts of technology advances in wireless devices, mesh and ad-hoc networking, satellite modem technology, and small lightweight secure digital capabilities on warfighter command and control capabilities and match emerging critical warfighter requirements with the technologies to identify near-term technology solutions supporting Combatant Commanders.</p> <p>Command and Control (C2) Applications Over Broadband Cellular Technical Assessment – Continue technical and functional assessments of C2 applications; Joint Automated Deep Operations Coordination System (JADOCS), Command and Control Personal Computer (C2PC); Force XXI Battle Command, Brigade-and-Below (FBCB2), and Adobe Connect over broadband cellular.</p>			

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Intelligence, Surveillance and Reconnaissance Video Dissemination Technologies – Continue technical integration to validate industry-standard video technology and networking protocols Livecast, MediaFLO, and Inca-X are interoperable with selected systems and architectures.				
Army Joint Tactical Wireless Communications Capability (JTWCC) Assessment Support – Provide broadband cellular technical subject matter experts and Command and Control (C2) Applications Over Broadband Cellular suite for use as a tool to evaluate multiple broadband solutions.				
National Security Agency (NSA) Suite B Encryption Integration and Utility Assessment – Continue to provide network and technical assistance to NSA in the development of a Suite B software encryption solution. Suite B software provides encryption capability without using a hardware solution.				
<p>Title: Capability Assessment</p> <p>Description: Primary Outcome (objective) for this effort is to provide objective based assessment of Doctrine, Organizational, Training, Materiel, Leadership, Personnel, Facilities (DOTMLPF) solution sets supporting the Joint Task Force Commander. JSIC will analyze COCOM near-term requirements using DOTMLPF criteria. JSIC will identify current, emerging, or mature technologies to address materiel requirements. Comprehensive assessments covering joint maturity, interoperability, warfighter utility, and operational effectiveness will be conducted on legacy and transformational projects. JSIC will provide DOTMLPF recommendations on fielding strategies for Joint Staff endorsement.</p> <p>The primary outputs and efficiencies realized are: 1) Increased number of recommended improvements that enhance the capability of Joint Task Force Headquarters (JTF HQ); 2) Increased number of verifiable capability solutions recommended for fielding to the Combatant Commander based on quantified capability improvements; 3) Increased empirical data to support benefit-cost ratio improvements of JTF HQ investment decisions to ensure JTF HQs command and control (C2) capabilities are interoperable from technical and operational standpoints; 4) Increased number of assessments conducted that identify current force JTF HQs C2 systems that are interoperable and supported, that inform and recommend solutions to integrate, modify, or retire current force systems; 5) Increased number of assessment based recommendations of technology solutions that address the military utility of proposed and existing Service solutions; and 6) Increased number of solutions deployed with recognized DOTMLPF impacts.</p> <p>Program Management offices benefit because the JSIC program provides a venue for Military Utility Assessments (MUAs) of technologies before committing to implementation. The potential savings associated with finding existing commercial technologies to provide gap filler solutions, and avoid the fielding of systems that are not interoperable or that fail to meet warfighter needs, are</p>		1.500	1.532	-

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012
<p>difficult to quantify. Potentially life-threatening shortfalls are identified and fixed in advance of fielding. Services benefit directly by reduced Program Manager costs and by fielding systems that are interoperable and meet warfighter needs.</p> <p>FY 2010 Accomplishments: Conducted the following capability assessments of C2 systems applications in support of Combatant Commanders, Services, and Agencies at a cost of \$1,500K:</p> <p>Cross Domain Enterprise Solutions (CDES) One Way File Transfer (1WFT) - Conducted a technical assessment of DISA's CDES one-way transfer capability, Exchange File Transfer (XFT) system, over production networks in support of the USCENTCOM requirement. Based upon assessment results, DISA delayed deployment of the operational guard to make improvements to the XFT content filtering software, system architecture and configuration.</p> <p>Cross Domain Enterprise Solutions (CDES) Two Way File Transfer (2WFT) - Conducted a warfighter utility and technical assessment of the CDES two-way automated office file and imagery transfer capability over production networks.</p> <p>Joint Interoperability Assessment Net-Centric Tool (JIANT) Development – JIANT is a web-based architecture-centric tool that is accessible concurrently by analysts involved in the assessment planning process. It supports automated mission thread analysis, assessment planning, and data collection in distributed environments.</p> <p>Global Command Support System-Joint (GCSS-J) Assessments - Assessment of GCSS-J system improvements prior to release to enhance usability and identify remaining capability gaps to the Program Manager. Established a GCSS-J environment to enable both utility assessments and training events to take place concurrently.</p> <p>FY 2011 Plans: Cross Domain Solutions (CDS) Baseline Capability Assessment of Radiant Mercury v5.0 – Conduct a capability assessment, measuring the functional strengths and weaknesses of the Radiant Mercury v 5.0 guard against Unified Cross Domain Management Office (UCDMO) prescribed criteria.</p> <p>Cross Domain Enterprise Solutions (CDES) File Transfer on Demand Follow-on Assessment - Conduct warfighter utility and technical assessments of follow-on CDES two-way automated office file and imagery transfer capabilities.</p> <p>Trusted Manager Technical Assessment (TMAN) Assessment – Conduct strict performance-based assessment of Trusted Manager II technology, to measure the CDS technologies strengths and weaknesses.</p>				

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012
<p>Global Command Support System-Joint (GCSS-J) Host Based Security System (HBSS) Cyber-Capability Support and Assessment – Assess an information assurance HBSS of the GCSS-J system prior to release to enhance usability and identify remaining capability gaps to the program management office.</p> <p>C2 Data Pilot Phase 5 Assessment – Provide interoperability and utility assessment to demonstrate data services over a service oriented architecture foundation.</p> <p>FY 2012 Plans: Function will be eliminated as part of the USJFCOM disestablishment.</p>				
<p>Title: Persistent Command and Control Environment / Federated Joint C2 Laboratories (FJC2L)</p> <p>Description: JSIC supports a Persistent Command and Control Environment by aggressively engaging the Services in a collaborative effort to bring joint solutions through JSIC's capability integration, interoperability demonstrations and capability assessments process. JSIC works in collaboration and formal coordination with the Joint Staff, Combatant Commanders, Services, defense agencies, departments and agencies outside of DoD, as well as allies and other coalition partners to align efforts, create a culture of innovation, and foster the development of new joint operational capabilities, along with measures of merit, to serve as the basis for exploring future joint capabilities and operations through joint and coalition experimentation and assessment.</p> <p>FY 2010 Accomplishments: Enhanced the Persistent Command and Control Environment in support of Combatant Commanders, Services, and Agencies at a cost of \$3,500K:</p> <p>Coalition Warrior Interoperability Demonstration 2010 (CWID10) Support - CWID is a Chairman Joint Chiefs of Staff (CJCS) J6 annual event enabling the Combatant Commanders and the international community to investigate technology solutions that focus on relevant and timely objectives for enhancing coalition interoperability and exploring new partnerships. Provided the host Combatant Commander environment, technical support, and connectivity for CWID10.</p> <p>Bold Quest 2010 (BQ10) Support - Provided network engineers and technicians to assist with the build and troubleshooting of the Bold Quest network.</p> <p>Unified Endeavor Support – Provided a Joint Mission Environment Test Capability (JMETC) node, Interim Authority To Operate (IATO) accreditation of tools, and connectivity over the JMETC network to allow data collection and analysis of Global Command and Control Systems-Joint (GCCS-J).</p>		3.500	3.574	2.917

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011	FY 2012
<p>Joint Test and Evaluation (JT&E) Joint Data Integration – Provided Global Command and Control Systems-Joint (GCCS-J) suites, a USSTRATCOM feed and other injects as required in support of a Defense Operational Test and Evaluation (DOT&E) Joint Test.</p> <p>Virtual Symposium Infrastructure Support – Provided technical and engineering support to build an Adobe-Connect Pro collaboration server providing real collaboration between Australia/Canada/United Kingdom/US partners. Partnered with the Multi-National Information Sharing (MNIS) joint program office to use Combined Federated Battle Laboratory Network (CFBLnet) classified enclave as a collaboration node, as well as specific domain name services for email and Voice over Internet Protocol (VoIP) for all participants.</p> <p>Joint Deployment Training Center (JDTC) Infrastructure Support - Established an operational Global Command and Control System-Joint (GCCS-J) development and assessment server suite. Provided technical and engineering support and access to JSIC's GCCS-J 4.2 and 4.1.1 suites to conduct an impact assessment and support course and curriculum development for the JDTC.</p> <p>Empire Challenge 2010 (EC10) C2 Systems Support – Provided infrastructure, communications, network, information assurance, security, and engineering support as requested.</p> <p>FY 2011 Plans: Coalition Warrior Interoperability Demonstration 2011 (CWID11) Support - CWID is the Chairman Joint Chiefs of Staff (CJCS J6) annual event enabling the Combatant Commanders and the international community to investigate technology solutions that focus on relevant and timely objectives for enhancing coalition interoperability and exploring new partnerships. Provide the environment, technical support, and connectivity for CWID11.</p> <p>DoD Interoperability Communications Exercise 2011 (DICE11) Support – Provide infrastructure, communications, network, information assurance, security, and engineering support as requested.</p> <p>Joint Users Interoperability Communications Exercise C2 Systems 2011 (JUICE11) Support – Provide infrastructure, communications, network, information assurance, security, and engineering support as requested.</p> <p>Afghanistan Mission Network (AMN) C2 Systems Support – Provide infrastructure, communications, network, information assurance, security, and engineering support as requested.</p>				

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2010	FY 2011
<p>Empire Challenge 2011 (EC11) C2 Systems Support – Provide infrastructure, communications, network, information assurance, security, and engineering support as requested.</p> <p>Joint Training Counter Improvised Explosive Device (IED) Operations Center Support – Support US Army TRADOC’s request for access to C2 systems, and technical support to harvest and process for training purposes, select data streams from identified C2 systems.</p> <p>C2 Capability in a Denied or Degraded Environment (C2D2E) – Provide a C2 JTF environment with selected legacy systems. Joint Systems Integration and Interoperability Laboratory (JSIIL) C2 Systems Support – Provide infrastructure, communications, network, information assurance, security, and engineering support as requested.</p> <p>AFRICOM Judicious Response (AJR) Exercise Support – Provide infrastructure, communications, network, information assurance, security, and engineering support as requested.</p> <p>Joint Mission Thread Architecture Framework and Data Model (JMT AFDM) - Provide infrastructure, communications, network, information assurance, security, and engineering support as requested.</p> <p>FY 2012 Plans: Continue FY 2011 initiatives by engaging the Services and Communities of Interest (COI) to leverage the capabilities of the Persistent Command and Control Environment by bringing joint solutions through JSIC's integration and operational assessment process. Also continue to expand existing relationships with Service and Coalition Labs and Engineering organizations.</p> <p>DoD Interoperability Communications Exercise 2012 (DICE12) Support – Provide infrastructure, communications, network, information assurance, security, and engineering support as requested.</p> <p>Joint Users Interoperability Communications Exercise C2 Systems 2012 (JUICE12) Support – Provide infrastructure, communications, network, information assurance, security, and engineering support as requested.</p> <p>Afghanistan Mission Network (AMN) C2 Systems Support – Provide infrastructure, communications, network, information assurance, security, and engineering support as requested.</p> <p>Empire Challenge 2012 (EC12) C2 Systems Support – Provide infrastructure, communications, network, information assurance, security, and engineering support as requested.</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012
Joint Training Counter Improvised Explosive Device (IED) Operations Center Support – Support US Army TRADOC’s request for access to C2 systems, and technical support to harvest and process for training purposes, select data streams from identified C2 systems.			
C2 Capability in a Denied or Degraded Environment (C2D2E) – Provide a C2 JTF environment with selected legacy systems.			
AFRICOM Judicious Response (AJR) Exercise Support – Provide infrastructure, communications, network, information assurance, security, and engineering support as requested.			
Joint Mission Thread Architecture Framework and Data Model (JMT AFDM) - Provide infrastructure, communications, network, information assurance, security, and engineering support as requested.			
Accomplishments/Planned Programs Subtotals	17.941	19.413	13.024

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

N/A

D. Acquisition Strategy

JSIC supports interoperability of systems selected for acquisition, integration and fielding. JSIC is intended to be a forcing function to discover and provide interoperable joint solutions as a means to foster rapid, near-term insertion of command and control technology by promoting the ability to meet the DoD direction for spiral development and evolutionary acquisition. Services and Defense Agencies are responsible for conducting acquisition activities in Programs of Record (POR).

E. Performance Metrics

FY 2010
 Strategic Goals Supported: Joint Command and Control
 Existing Baseline: Number of FY 2009 Assessments/Interoperability Demonstrations/Capability Integrations/Persistent Command and Control Environment engagements
 Planned Performance Improvement / Requirement Goal: 5 percent increase in assessments, integrations and demonstrations
 Actual Performance Improvement: Achieved 35 of planned 30 assessments/demonstrations
 Planned Performance Actual Performance Metric / Methods of Measurement: Number of assessments, integrations and demonstrations
 Actual Performance Metric / Methods of Measurement: Completed 35 assessments/demonstrations

FY 2011
 Strategic Goals Supported: Joint Command and Control

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Existing Baseline: Number of FY 2010 Assessments/Interoperability Demonstrations/Capability Integrations - 35 Planned Performance Improvement / Requirement Goal: 5percent increase in assessments, integrations and demonstrations Actual Performance Improvement:		

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Office of Secretary Of Defense			DATE: February 2011
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	FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016			
	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
Project Selection	[REDACTED]																											
Project Planning	[REDACTED]																											
Procurement	[REDACTED]																											
Testing/Integration/Assessment	[REDACTED]																											
Report/Findings	[REDACTED]																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Office of Secretary Of Defense		DATE: February 2011
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Project Selection	1	2010	4	2014
Project Planning	1	2010	4	2014
Procurement	1	2010	4	2014
Testing/Integration/Assessment	1	2010	4	2014
Report/Findings	1	2010	4	2014