Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary Of Defense											DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 4: *Advanced Component Development & Prototypes (ACD&P)*					R-1 ITEM NOMENCLATURE PE 0604787D8Z: *Joint Systems Integration Command*							
COST ($ in Millions)	**All Prior Years**	**FY 2012**	**FY 2013#**	**FY 2014 Base**	**FY 2014 OCO ##**	**FY 2014 Total**	**FY 2015**	**FY 2016**	**FY 2017**	**FY 2018**	**Cost To Complete**	**Total Cost**
Total Program Element	-	12.671	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
P787: *Joint Systems Integration Command*	-	12.671	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

Note

The Joint Systems Integration Command Program Element 0604787D8Z will transfer from OUSD AT&L to The Joint Staff in FY13.

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 Assistant Secretary of Defense for Research and Engineering (ASD (R&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

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary Of Defense	DATE: April 2013
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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. Program Change Summary ($ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	12.716	0.000	0.000	-	0.000
Current President's Budget	12.671	0.000	0.000	-	0.000
Total Adjustments	-0.045	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.045	-			
• SBIR/STTR Transfer	-	-			

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.

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of Defense			DATE: April 2013
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COST ($ in Millions)	All Prior Years	FY 2012	FY 2013#	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
P787: *Joint Systems Integration Command*	-	12.671	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles												

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

Note

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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.

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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

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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 2012	FY 2013	FY 2014
Title: Interoperability Technology Demonstration Center (ITDC) and Interoperability Assessments (IA)	4.935	0.000	0.000

Description: Primary Outcome (objective) for this effort is 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.

FY 2012 Accomplishments:

Broad Band Cellular 4G and Beyond Technical Integration Assessment – Integrated an interoperable 4G cellular solution that provides access to secure C2 and ISR applications using broadband cellular technology for dismounted users and assessed the ability of BBC4G networks to interoperate and support the transport of C2 data for applications such as Joint Automated Deep Operations Coordination System (JADOCS), Command and Control Personal Computer (C2PC), Adobe Connect, and Force XXI Battle Command Brigade and Below (FBCB2) while simultaneously providing software based encryption.

4G Joint Long Term Evolution (LTE) Deployable (JOLTED) Tactical Cellular System (TACTICS) Integration Assessment - JOLTED-TACTICS is an Internet Protocol (IP) based system designed to provide robust communications to dismounted Special Operations Forces (SOF) teams and General Purpose Company and below tactical users. This system leverages innovations in Fourth Generation (4G) LTE Cellular technologies and mobile Ka band spread spectrum satellite communications to deliver megabits of data to mobile and dismounted teams armed with mobile devices such as smartphones or netbooks.

Intelligence, Surveillance and Reconnaissance Video Dissemination Technologies – Performed a technical integration to validate industry-standard video technology and networking protocols Livecast®, MediaFLO®, Inca-X®, RealityVision®, and Negative Acknowledgement (NACK)-Oriented Reliable Multicast (NORM) Video Streaming System (NOViSS) are interoperable with selected systems and architectures.

US Navy 4G/Long Term Evolution (LTE) Afloat – Began implementing a broadband cellular communications infrastructure in support of the US Navy counter-piracy mission.

Celestial Reach Joint Capability Technical Demonstration (JCTD) Assessment – Began integrating a wide-band antenna solution for joint air, ground, and maritime operations and assessing the capability's utility in providing wide-band communications that support Command and Control (C2) and Intelligence Surveillance and Reconnaissance (ISR) applications to enroute users.

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of Defense		DATE: April 2013
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B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
NSA Commercial Solutions for Classified (CSfC) Secure Wireless Local Area Network (SWLAN) Integration Assessment – Continued providing assistance to NSA in the development of a Suite B software encryption solution. This will make a capability available to communicate over SECRET wireless networks without using Type-1 hardware solutions (e.g., SecNet 54, Talon, or KG-250s) Air Event Information Sharing Service (A/EISS) Integration Assessment - Integrated an automated data handling capability that will fuse and share decision support data from national level authoritative sources so senior decision makers can make critical decision during air events over North America via desktop or mobile device. Tactical Mobility Security Integration Assessment (TMSIA)- Began integrating and assessing a Commercial Solutions for Classified (CSfC) compliant security architecture that would meet the US Navy's need for processing Smartphone and broadband wireless technology (such as 4G/LTE cellular) for Secret and below voice, video, and data for use during Vessel Boarding Search and Seizure (VBSS) operations.			
Title: Capability Assessment	0.000	0.000	0.000
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. 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. 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			

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
to provide gap filler solutions, and avoid the fielding of systems that are not interoperable or that fail to meet warfighter needs, are 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. ***FY 2012 Accomplishments:*** Function was eliminated as part of the US Joint Forces Command (JFCOM) disestablishment.			
Title: Persistent Command and Control Environment / Federated Joint C2 Laboratories (FJC2L) ***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. ***FY 2012 Accomplishments:*** C4AD Project Engineering Support – Provided infrastructure, communications, network, information assurance, security, and engineering support as required. Coalition Warrior Interoperability Exercise 2012 (CWIX12) Support – Provided infrastructure, communications, network, information assurance, security, and engineering support as requested. Afghanistan Mission Network (AMN) C2 Systems Support – Provided infrastructure, communications, network, information assurance, security, and engineering support as requested. Bold Quest 12 Support - Provided infrastructure, communications, network, information assurance, security, and engineering support as requested.	3.557	0.000	0.000
Title: Technical Assessments and Integration (TA&I) ***Description:*** Primary Outcome (objective) for this effort is 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. ***FY 2012 Accomplishments:***	4.179	0.000	0.000

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
Broad Band Cellular 4G and Beyond Technical Integration Assessment – Integrated an interoperable 4G cellular solution that provides access to secure C2 and ISR applications using broadband cellular technology for dismounted users and assessed the ability of BBC4G networks to interoperate and support the transport of C2 data for applications such as Joint Automated Deep Operations Coordination System (JADOCS), Command and Control Personal Computer (C2PC), Adobe Connect, and Force XXI Battle Command Brigade and Below (FBCB2) while simultaneously providing software based encryption. 4G Joint Long Term Evolution (LTE) Deployable (JOLTED) Tactical Cellular System (TACTICS) Integration Assessment - JOLTED-TACTICS is an Internet Protocol (IP) based system designed to provide robust communications to dismounted Special Operations Forces (SOF) teams and General Purpose Company and below tactical users. This system leverages innovations in Fourth Generation (4G) LTE Cellular technologies and mobile Ka band spread spectrum satellite communications to deliver megabits of data to mobile and dismounted teams armed with mobile devices such as smartphones or netbooks. Intelligence, Surveillance and Reconnaissance Video Dissemination Technologies – Performed a technical integration to validate industry-standard video technology and networking protocols Livecast®, MediaFLO®, Inca-X®, RealityVision®, and Negative Acknowledgement (NACK)-Oriented Reliable Multicast (NORM) Video Streaming System (NOViSS) are interoperable with selected systems and architectures. US Navy 4G/Long Term Evolution (LTE) Afloat – Began implementing a broadband cellular communications infrastructure in support of the US Navy counter-piracy mission. Celestial Reach Joint Capability Technical Demonstration (JCTD) Assessment – Integrated a wide-band antenna solution for joint air, ground, and maritime operations and assessing the capability's utility in providing wide-band communications that support Command and Control (C2) and Intelligence Surveillance and Reconnaissance (ISR) applications to enroute users. NSA Commercial Solutions for Classified (CSfC) Secure Wireless Local Area Network (SWLAN) Integration Assessment – Continue providing assistance to NSA in the development of a Suite B software encryption solution. This will make a capability available to communicate over SECRET wireless networks without using Type-1 hardware solutions (e.g., SecNet 54, Talon, or KG-250s) Air Event Information Sharing Service (A/EISS) Integration Assessment - Integrated an automated data handling capability that will fuse and share decision support data from national level authoritative sources so senior decision makers can make critical decision during air events over North America via desktop or mobile device.			

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
Tactical Mobility Security Integration Assessment (TMSIA)- Integrating and assessing a Commercial Solutions for Classified (CSfC) compliant security architecture that would meet the US Navy's need for processing Smartphone and broadband wireless technology (such as 4G/LTE cellular) for Secret and below voice, video, and data for use during Vessel Boarding Search and Seizure (VBSS) operations.			
Accomplishments/Planned Programs Subtotals	12.671	0.000	0.000

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

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 2012
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 23 of planned 23 assessments/demonstrations

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Office of Secretary Of Defense			DATE: April 2013
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Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
: Interoperability Technology Demonstration Center (ITDC)	Various	More than one - Various:More than one - Various	-	4.935		0.000		-		-		-	Continuing	Continuing	
Technical Assessments and Integration (TA&I)	Various	More than one - Various:More than one - Various	-	4.134		0.000		-		-		-	Continuing	Continuing	
Persistent Command and Control Environment / Federated Joint	Various	More than one - Various:More than one - Various	-	3.602		0.000		-		-		-	Continuing	Continuing	
		Subtotal	0.000	12.671		0.000		0.000		0.000		0.000			

	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	12.671		0.000		0.000		0.000		0.000			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Office of Secretary Of Defense		DATE: April 2013
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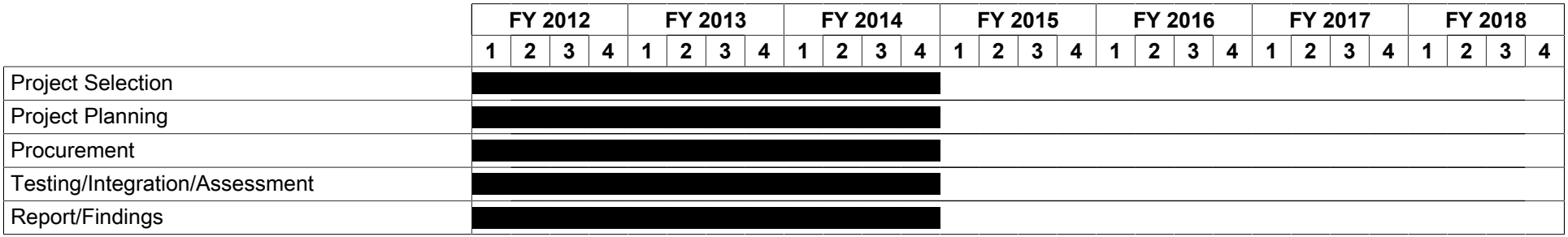

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Office of Secretary Of Defense		DATE: April 2013
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Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Project Selection	1	2012	4	2014
Project Planning	1	2012	4	2014
Procurement	1	2012	4	2014
Testing/Integration/Assessment	1	2012	4	2014
Report/Findings	1	2012	4	2014