Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Office of Secretary Of Defense

R-1 Program Element (Number/Name)

Date: March 2014

0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7:

PE 0305199D8Z I Net Centricity

Operational Systems Development

Appropriation/Budget Activity

operational cycleme 2010/opinion												
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	14.528	18.849	16.490	23.984	-	23.984	17.446	18.060	18.992	20.174	Continuing	Continuing
199: GIG Evaluation Facilities (GIG-EF) and GIG Enterprise- Wide Systems Engineering Advisory Activities	14.528	18.849	16.490	23.984	-	23.984	17.446	18.060	18.992	20.174	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

[#] The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Funds will be used to provide technical analysis, systems engineering and capability management oversight of programs, projects, initiatives and activities to maximize the Department's return on investment in information technology resources and affect a comprehensive approach for assessing and procuring critical information systems from initial design, through development to capability delivery in support of improved systems performance and military operations. Emphasis is placed on the information transport, information assurance, network and spectrum management, command and control (C2) applications, systems and services, information sharing capabilities, and enterprise services activities focused on the development, integration, testing and technical assessment of capabilities and applications in joint and coalition warfighter support environments. Resources support collaborative efforts to demonstrate the interoperability and performance requirements of command, control, communication, computing network, and Information Infrastructure (C4II) capabilities and programs. This program is funded under Budget Activity 7, Operational System Development.

This project provides the resources necessary to implement net centric processes and authoritative analytic methods that provide the capability to synchronize interdependent C4II capabilities across all layers (ground, air, space) of the joint information environment architecture, to forecast and achieve a balance in supply and demand for network capacity, and field effective capabilities more rapidly and efficiently as an enabler for C4&II capabilities applications and services. Resources are required to transform current networks and information infrastructure into an operationally unified and architecturally diverse joint information environment that will provide end-to-end communications transport layer, computing networks, and mission application capabilities that are optimized and integrated with all other joint capability areas with a focus on the tactical edge faced with disconnected, intermittent, and latency (DIL) environments. There will be technical assessments, modeling and simulation, and analysis of the Joint space communications layer, Joint aerial network layer, contested communications on the move, Position Navigation and Timing (PNT), C2 mission application, and information sharing capabilities. These funds provide the capability for the warfighter to manage and deconflict radio frequencies through ground, air, and space communication networks. The funds will be used to develop and synchronize information assurance capabilities with other joint information environment capabilities to provide secure access to information and services (e.g. Cryptographic Modernization Management plan).

In addition, funding will continue to be used to support the Defense Information System's Agency's (DISA) and Services' interoperable improvement efforts and processes in the development of common standards and protocols. This effort includes initiating the Joint Interoperability Enhancement Process (IEP) that allows operators, engineers, and program managers to verify capabilities and identify issues in a desig

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and interoperability management tools to a common set of Joint network-enabled standards to ensure adherence to the Global Information Grid (GIG) enterprise-wide technical baseline and for implementation of future Tactical Data Link (TDL) capabilities. These joint standards, protocols, and processes will be used for implementation and testing to ensure the TDL capabilities are synchronized with the development and integration timelines of other planned network-enabled Global Information Grid (GIG) initiatives. The threats to the networking waveforms and the Joint NC migration will also be looked at in cooperation with the Intelligence agencies.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	21.190	21.602	21.610	-	21.610
Current President's Budget	18.849	16.490	23.984	-	23.984
Total Adjustments	-2.341	-5.112	2.374	-	2.374
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
Congressional Adds	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-0.045	-			
SBIR/STTR Transfer	-	-			
Sequestration Reduction	-1.756	-	-	-	-
Efficiency Reduction	-	-	-2.626	-	-2.626
SIBR/STTR Reduction	-0.532	-	-	-	-
Program Adjustment	-0.008	-	-	-	-
 Congressional Reduction 	-	-5.000	-	-	-
FFRDC Reduction	-	-0.112	-	-	-
 Department Increase Classified Program 	-	-	5.000	-	5.000

Change Summary Explanation

Program Change Explanation:

FY 2013: Sequestration Reduction -1.756 million, Reprogramming -0.045 million, SIBR/STTR reduction -0.532 million, Program Adjustment -0.008 million .

FY 2014: Congressional Reduction -5.000 million, FFRDC Reduction -0.112 million.

FY 2015: Efficiency Reduction -2.626 million, Department increase classified program 5.000 million - This Department is one piece of the classified program other funding associated with this effort can be found under PE 0605170D8Z, BA 4, 12.5 million, and PE 0605170D8Z, BA6, 22.5 million.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: Net Centricity Plans and Accomplishments	18.849	16.490	23.984
FY 2013 Accomplishments:			

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Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0305199D8Z / Net Centricity			
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
Determined strengths, weaknesses, and uses of waveforms; identified gaps investigated how new technologies will result in improved waveforms; and standards and cloud computing best practices to ensure re support operations; identified how cloud services can be extended to the mistandards and performed modeling and simulation to address is a Conducted analyses and performed modeling and simulation to address is a Conducted analyses and performed modeling and simulation to address is a Conducted analyses of technical insertion options to support refresh and reservices. Supported analysis of security architectures and provided recommendation DoD to include support for secret and top secret data and voice communications reveraged the radio strategy working group with the Military Services to facility 13 and out years. Updated existing SATCOM synch matrices to reflect changes in POM 14 fAOA recommendations. Analyzed PACOM gateway system requirements and proposed equipmen needed to meet the operational requirements. Analyzed DoD tactical radios to determine which radios are suitable for Suconducted technical studies to investigate the feasibility of implementing legaload Developed implementation guidance to support crypto modernization initial issues Developed transition plans for the Military Services and NSA to support of (EKMS) to Key Management Infrastructure (KMI) Provided analysis and oversight for Crypto-solution management, policy demodernization for the general force. Supported development of the Terms of Reference to guide and inform the Developed and coordinated JIPM evolution and deployment strategy to sucapabilities to inform follow on implementation across the Department.	supported Waveform Roadmap effort; ineering to support understanding the maturity of siliency of the cloud computing environment to ssion networks; saves with communications systems and networks; etworks; saTCOM issues; nigration of Defense Information Systems Network as on policy for commercial mobile devices in the tions, addressed interim solutions, route to final security (COMSEC) modernization strategy; tate POM development and Component planning for funding, emerging systems/technology, and JALN at suites including the number and types of equipment suite B implementation egacy narrowband SATCOM solutions on the MUOS attives and address crypto modernization integration integration from the Electronic Key Management System evelopment, and enforcement, and Crypto as Protected SATCOM AoA.			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015			
 Conducted technical analysis and policy support with emphasis on Coalition including technical analysis of Coalition C2 functional requirements, strategic addressed by the international community (inclusive of multilateral and bi-late - Conducted technical analysis of selected joint and military Service C2 progiapproaches for data, services and enterprise deployments and support integriper - Provided technical analysis and support for C4II related policies, plans, studiassessment reports, capabilities and numerous other initiatives. Provided technical assessments to inform and influence Mission Partner Eractivities. Provided technical analysis and support for the development of Common M. Conducted Joint Network modeling and Network design applicable to tactic. Provided analysis of the SATCOM systems in support of the RBSC effort. Conducted a MUOS alternative study to determine a technical solution for gradultic study. Conducted analysis to determine requirements and feasibility of hand held. Provided technical analysis on network management to include cyber and schedule impacts. Conducted wireless architecture and advanced technologies analysis. Devupdates to Department-wide communications policies applicable to commercial conducted spectrum technology radar analysis to support implementation of Provided technical development and analysis to support the evolution of Micacquisition strategies, and functional requirements to enable continued developmentanisms to enhance capability strategies. Conducted follow-on JALN analysis with Joint Service JALN Council, overs JALN capability Non-Recurring Engineering (NRE) development. Expanded IEP beyond Link 16 to incorporate VMF, MADL, and CDL. Finalized Joint TDL Migration Plan (JTMP) and initiated development of Do the Department Drafted MIL-STDs for MADL and CDL to enhance interoperability and overs. Conducted Advanced Ground / Air / Space a	policy development and capability strategies and engagements) rams and initiatives to promote net-centric ated sustainment and modernization planning. dies, governance and management, roadmaps, nvironment (MPE) development and implementation dission Network Transport (CMNT) capability. al US Army and USMC units. Getting the most out of the MUOS payload side of the bound terminal modifications, waveform options, cost, and terminal modifications and reports to inform a pectrum issues. The spectrum Technology Radar Roadmap alti-National Information Sharing programs, related opment of C2 Information Sharing metrics and aw Service implementation efforts, and initiated Dipolicy instruction to guide TDL migration across as sight of the communication systems to Generation 5 Fighter/bomber waveform actical data link modeling; Developed a MADL						

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
- Conducted technical analysis to inform updates to Joint C2 technical and a Command and Control Family of Systems to a network enabled, joint inform potential costs and schedules to establish net-centric C2 capabilities consist - Provided technical analysis to support the Joint Technology Synchronization establish technical artifacts for Joint Information Enterprise (JIE) Incremer - Developed initial technical architectures to promote efficiency in network deconnaissance (ISR) data captured Airborne ISR (AISR) requirements in a documented existing systems/capabilities to support follow-on material/non-central Established the SATCOM Systems Engineering Group (SSEG) to address Wideband, and Protected domains - Developed an alternative approach for closing out the Joint Tactical Network external key stakeholders to develop the transition plan.	ation enterprise. Analyzed Component approaches, ent with Department objectives. on Office (JTSO) Integrated Design Team (IDT) efforts at 1 implementation. issemination of Intelligence, Surveillance and a draft Initial Capabilities Document (ICD), and material recommendations. is SATCOM end-to-end issues in the Narrowband,			
FY 2014 Plans:				
Continue efforts to determine strengths, weaknesses, and uses of waveform waveforms; consider how new technologies will result in improved waveform - Continue technical analysis, architecture development, and systems engine computing standards and cloud computing best practices to ensure resilience and mobile solution capabilities; identify how cloud services can be extended - Develop policy guidance and implementation strategies to promote IPV6 under the Conduct follow-on analyses and perform modeling and simulation to address command and control systems, communications systems and networks - Continue cyber vulnerability analyses of communications systems and networks - Conduct analyses to address SATCOM synchronization issues, consistent (SSEG) objectives - Conduct analyses to address DoD organizational messaging modernization Information Enterprise (JIE) Continue analysis of security architectures and provide recommendations for commercial mobile devices to in clude support for secret and top secret of	us to support waveform roadmap efforts; seering to support understanding the maturity of cloud by of the cloud computing environment to support C2 d to the mission networks; see in tactical systems. ess capability and interoperability issues with works t with SATCOM Synchronization Engineering Group on as a candidate enterprise service for the Joint to enable implementation of DoD-wide policies			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
 Update existing SATCOM synch matrices to reflect changes in POM 15 fur and implementation of JALN AOA recommendations to promote synchronize communications capabilities. Refine PACOM gateway system requirements and proposed equipment suneeded to meet the operational requirements to support implementation in the Conduct technical analysis to identify network gaps and address implement associated communications networks needed to control and provide informat data) for cluster basing related to adversary anti-access/area-denial (A2/AD - Continue analysis of tactical radios to determine which radios are suitable - Provide analysis and oversight for continued development and implementation and enforcement, and Crypto modernization for the general force. Conduct technical analysis and modeling and simulation to support for the - Conduct technical analysis to formalize JIPM evolution and deployment str GBS capabilities to inform follow on implementation across the Department. Continue technical analysis on Coalition C2 and Multi-National Information Coalition C2 functional requirements, strategic policy development and capa community (inclusive of multilateral and bi-lateral engagements) to inform an development and implementation. Conduct technical analysis of selected joint and military Service C2 progra for data, services and enterprise deployments, consistent with joint C2 susta - Provide technical analysis and support for C4II related policies, plans, studiassessment reports, capabilities and numerous other initiatives. Provide technical analysis and support for the development and implement (CMNT) capability. Continue joint network modeling and network design applicable to Army Br Brigade (MEB), and USAF Wing. Provide analysis of the SATCOM systems in support of the SATCOM Sync Continue analysis efforts to address the feasibility of implementing legacy End consistent with multi-service operational test and evaluation configuration. 	ad development and delivery of end-to-end uites including the number and types of equipment the PACOM area of operations. Intation of command and control capabilities and tion support (e.g., intelligence, logistics, other mission). Intation of Crypto-solution management, policy guidance attended of Crypto-solution management, policy guidance are protected SATCOM AoA categies to support video dissemination and two-way. Sharing (MNIS), including technical analysis of bility strategies addressed by the international and guide Mission Partner Environment (MPE). In and initiatives to promote net-centric approaches inment and modernization plans. Ities, governance and management, roadmaps, tation of the Common Mission Network Transport arigade Combat Team (BCT), USMC Expeditionary chronization Engineering Group (SSEG) objectives. International modifications, waveform options.			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
 Conduct assessments to investigate feasibility, and availability of COTS his production of MUOS radios. Develop an implementation plan and process for MUOS specific Test and support COTS vendor terminals to support MUOS system. Provide technical analysis on network management to include cyber and some continue wireless architecture and advanced technologies analysis to informability solutions. Conduct technical analysis to support compliance oversight of waveform positive conduct spectrum technology radar analysis to support implementation of provide technical analysis of Multi-National Information Sharing programs strategies, and functional requirements to ensure continued development of consistent with capability strategies Continue follow-on JALN analysis with Joint Service JALN Council, overse capability Non-Recurring Engineering (NRE) development. Continue technical efforts to expand IEP beyond Link 16 to incorporate VN Conduct technical and policy assessments to enable TDL migration Conduct Advanced Ground / Air / Space assessments for: Generation 4 to analysis (Multifunction Advanced Data Link (MADL); Advanced tactical data specification; analyze MADL and Link-16 gateway capabilities Conduct analysis to refine the joint C2 technical and architectural artifacts. Family of Systems to a network enabled, joint information enterprise Provide studies and analysis of the C2 capability gaps to inform investment development for POM16 (FY16-20). Analyze approaches, potential costs and Conduct technical analysis to support the Joint Technology Synchronization related to implementation of Joint Information Enterprise (JIE) Increment 1 catechnical planning. Conduct development and refine technical architectures to support implementation development and refine technical architectures to support implementation development and refine technical architectures to support implementation of Intell	interoperability Certification test bed capability to pectrum issues. I'm Department-wide policies and implementation of olicies and technical profile specifications the Spectrum Technology Radar Roadmap and initiatives, related acquisition and implementation C2 information sharing metrics and mechanisms e Service implementation efforts, and continue JALN IF, MADL, and CDL Generation 5 Fighter/bomber waveform modification link modeling; develop MADL waveform standard and inform transition of Global Command and Control t strategies to inform Component planning and POM d schedules to establish net-centric C2 capabilities. In Office (JTSO) Integrated Design Team (IDT) efforts apability upgrades, and support JIE Increment 2 mentation of networking capabilities that enable R) data. Provide analysis to facilitate material and R ICD, and the Joint Requirements Oversight Council			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
 Complete the extensive Commercial SATCOM (COMSAT) analysis in conj Defense Business Board (DBB) recommendations on how to better acquire, 				
FY 2015 Plans: \$5.000 supports classified program, Details provided at a higher classificatio classified program, other funding can be found under PE 0605170D8Z, BA 4				
\$18,984 supports:				
Continue efforts to determine strengths, weaknesses, and uses of waveform waveforms; consider how new technologies will result in improved waveform efforts;				
 Continue technical analysis, architecture development, and systems engin computing standards and cloud computing best practices to ensure resilienc and mobile solution capabilities; identify how cloud services can be extended 	y of the cloud computing environment to support C2			
 Refine policy guidance and strategies to address technical IPV6 implemen Conduct follow-on analyses and perform modeling and simulation to addrescommand and control systems, communications systems and networks 				
- Continue cyber vulnerability analyses of communications systems and net				
 Conduct analyses and perform modeling and simulation to address SATCO Synchronization Engineering Group (SSEG) objectives 	OM synchronization issues, consistent with SATCOM			
- Conduct analyses and perform modeling and simulation to address implen capabilities in the Joint Information Enterprise (JIE).	nentation issues for DoD organizational messaging			
 Continue analysis of security architectures and provide recommendations policies for commercial mobile devices to include support for secret and top interim solutions, refine technical architectures and technical options for integer Refine the DoD radio and communications security strategy implementation development for POM17 (FY17-21). 	secret data and voice communications, address gration of additional mission applications			
 Update existing SATCOM synch matrices to reflect changes in POM16 fur and implementation of JALN AOA recommendations to promote synchronize communications capabilities. 				
 Refine PACOM gateway system requirements and proposed equipment someoded to meet the operational requirements to support implementation in the Continue analysis of tactical radios to determine which radios are suitable 	ne PACOM area of operations.			

5.	NOLASSIFIED			
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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
 Provide analysis and oversight for continued development and implementati and enforcement, and Crypto modernization for the general force. Conduct follow-on technical analysis and modeling and simulation to suppor recommendations Conduct follow-on analysis to finalize JIPM evolution and deployment strate GBS capabilities to drive implementation across the Department. Continue technical analysis on Coalition C2 and Multi-National Information S Coalition C2 functional requirements, strategic policy development and capabic community (inclusive of multilateral and bi-lateral engagements) to guide Miss implementation. Conduct technical analysis of selected joint and military Service C2 program for data, services and enterprise deployments, consistent with joint C2 sustain. Provide technical analysis and support for C4II related policies, plans, studie assessment reports, capabilities and numerous other initiatives. Provide technical analysis and support for the implementation of the Commondate Continue joint network modeling and network design applicable to Army Brig Brigade (MEB), and USAF Wing. Provide analysis of the SATCOM systems in support of the SATCOM Syncholomic Continue analysis efforts to address the feasibility of implementing coalition NATO interoperability. Conduct assessments to shape Future Narrow band satellite communication 2025-2030 time frame. Continue follow-on analysis of the MUOS alternative study to refine technical payload side of the satellite, RAF modifications, ground terminal modifications a Continue analysis to refine requirements, feasibility, and availability of hand. Conduct assessments to investigate feasibility, and availability of COTS high hand held radios. Develop an implementation plan for MUOS specific Test and Certification te to support MUOS system. Provide technical analysis on network management to include	gies to support video dissemination and two-way Sharing (MNIS), including technical analysis of ility strategies addressed by the international ision Partner Environment (MPE) development and is and initiatives to promote net-centric approaches iment and modernization plans. ies, governance and management, roadmaps, on Mission Network Transport (CMNT) capability. Igade Combat Team (BCT), USMC Expeditionary inconization Engineering Group (SSEG) objectives. In wave form modifications on the MUOS payload for in system to replace MUOS constellation in al solutions for getting the most out of the MUOS in, waveform options, cost, and schedule impacts held MUOS terminals. In efficiency WCDMA power amplifiers for MUOS set bed capability to support COTS vendor terminals in Department-wide policies and implementation of			

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
- Conduct spectrum technology radar analysis support implementation of Spectrum Technology Radar Roadmap			
- Provide technical analysis of Multi-National Information Sharing programs and initiatives, related acquisition and implementation			
strategies, and functional requirements to ensure continued development of C2 information sharing metrics and mechanisms that			
support implementation of capability strategies			
- Continue follow-on JALN analysis with Joint Service JALN Council, oversee Service implementation efforts, and implementation			
of JALN capability Non-Recurring Engineering (NRE) development.			
- Continue technical efforts to expand IEP beyond Link 16 to incorporate VMF, MADL, and CDL			
- Conduct technical and policy assessments to enable TDL migration			
- Conduct Advanced Ground / Air / Space assessments for: Generation 4 to Generation 5 Fighter/bomber waveform modification			
analysis (Multifunction Advanced Data Link (MADL); Advanced tactical data link modeling; develop MADL waveform standard			
specification; analyze MADL and Link-16 gateway capabilities			
- Conduct analysis to update joint C2 technical and architectural artifacts to support continued migration of Global Command and			
Control Family of Systems to a network enabled, joint information enterprise			
- Provide studies and analysis of the C2 capability gaps to inform investment strategies to inform Component planning and POM			
development for POM17 (FY17-21). Analyze approaches, potential costs and schedules to establish net-centric C2 capabilities.			
- Conduct technical analysis to support the Joint Technology Synchronization Office (JTSO) Integrated Design Team (IDT)			
efforts to implement Joint Information Enterprise (JIE) Increment 1 capability upgrades, and support initial JIE Increment 2			
implementation.			
- Continue development and refine technical architectures to support implementation of networking capabilities that enable			
efficient dissemination of Intelligence, Surveillance and Reconnaissance (ISR) data.			
Accomplishments/Planned Programs Subtotals	18.849	16.490	23.984

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

N/A

Remarks

E. Acquisition Strategy

N/A

F. Performance Metrics

- PPBE related issue development and approval
- Successful technical development and analysis of the CIO and DCIO C4IIC portfolio of programs and activities
- Develop comprehensive risk assessment and mitigation approaches of the CIO and DCIO C4IIC portfolio of programs and activities

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