Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary Of Defense

R-1 ITEM NOMENCLATURE

0400: Research, Development, Test & Evaluation, Defense-Wide

PE 0604771D8Z: Joint Tactical Information Distribution System (JTIDS)

DATE: April 2013

BA 5: System Development & Demonstration (SDD)

APPROPRIATION/BUDGET ACTIVITY

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COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	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	-	16.775	20.688	19.475	-	19.475	20.498	18.168	17.983	18.333	Continuing	Continuing
771: Link-16 Tactical Data Link (TDL) Transformation	-	16.775	20.688	19.475	-	19.475	20.498	18.168	17.983	18.333	Continuing	Continuing
Quantity of RDT&E Articles												

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### A. Mission Description and Budget Item Justification

This budget line was transferred from DoD Chief Information Officer management oversight to that of the Under Secretary of Defense (Acquisition, Technology and Logistics) as part of the disestablishment of the Assistant Secretary of Defense for Networks and Information Integration (ASD(NII)) and the associated transfer to USD (AT&L) of the Deputy Assistant Secretary of Defense for Communications, Command and Control and Cyber (DASD C3 & Cyber.) Transfer of this DASD to USD(AT&L) conveys the critical technical, systems engineering and program management oversight division of the former ASD(NII) to AT&L where engineering and acquisition expertise is resident. It capitalizes on each organization's performance and reduces technical and operational risk in the Department's acquisition processes by incorporating recognized, solid experience in the application of best practices to the development and fielding of net-centric capabilities which support major systems and weapons deployment. Reduced FY12 and outyear JTIDS funding resulted in the postponement of critical efforts to the FY13 and beyond time-frame.

The Common Joint Tactical Information funding line responds to the Department's requirement for joint and combined network-enabled tactical data link (TDL) capabilities and for communications which meet net-centric standards to ensure interoperability and seamless integration with joint communication systems. It will be used to assess and promote competition across TDLs DoD-wide and to provide acquisition oversight of TDL-related activities such as CDL waveforms, Joint Aerial Layer Network (JALN) narrowband TDL gateways, Multifunction Advanced Data Link (MADL) and datalink roadmaps to guide future investments. This funding line provides resources for acquisition support and management oversight of critical command, control, communications (C3) and non-intelligence space capabilities as the Department migrates to netcentric operations. Funds will be used to provide technical, systems engineering and acquisition management oversight of programs, projects and activities to maximize the Department's return on investment in information technology resources and to effect a comprehensive approach for assessing and procuring critical information systems from initial design, through development to capability delivery in support of improved weapons systems performance and military operations. Resources will be allocated for architecture design and development, portfolio management, enterprise-wide systems engineering and operational impact analyses related to C3 and non-intelligence space systems. They will also be used to provide expertise required for exercising technical direction over design, performance and cost parameters of key systems and their dependencies. They goal of this funding is to eliminate redundancy, reduce time to the field, evaluate projects and concepts for adherence to net-centric guidelines, minimize performance and operational risk of developing and fielding complex major systems which rely on networks and supporting applications, ensure program dependencies are documented and included in acquisi

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary Of Defense

R-1 ITEM NOMENCLATURE

0400: Research, Development, Test & Evaluation, Defense-Wide

PE 0604771D8Z: Joint Tactical Information Distribution System (JTIDS)

BA 5: System Development & Demonstration (SDD)

APPROPRIATION/BUDGET ACTIVITY

Brt o: Gystem Bevelopment a Bemonstration (GBB)					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	16.775	20.688	17.296	-	17.296
Current President's Budget	16.775	20.688	19.475	-	19.475
Total Adjustments	0.000	0.000	2.179	-	2.179
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
<ul> <li>Reprogrammings</li> </ul>	-	-			
SBIR/STTR Transfer	-	-			
Adjustments	-	-	3.608	-	3.608
Other FY14 Adjustments	-	-	-1.429	-	-1.429

### **Change Summary Explanation**

- 1. FY 2014 increase is consistent with continuing the successful delivery of technical system engineering and acquisition management oversight of the Department's joint and combined network-enabled tactical data link capabilities and communications to ensure interoperability and integration with joint communication systems.
- 2. Reductions taken to support other program priorities within the USD(AT&L).

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
Title: Common Joint Tactical Information Initiatives	16.775	20.688	19.475
FY 2012 Accomplishments:  Advanced Ground/Air/Space Assessment: Performed technical assessments for the Resilient Basis for Satellite Communications in Joint Operations study. This provided end-to-end performance metrics concerning satellite communications (SATCOM) systems in scintillated and anti-jam conditions for different military campaigns and scenarios. Likewise performed a requirements trade and platform integration assessment for eXtended Data Rate (XDR) terminals and a technical evaluation of viable SATCOM options in 2016 and 2028 in degraded environments due to cyber/kinetic issues.  SATCOM Analysis and Optimization: Provided performance, cost, and risk analysis of ongoing SATCOM programs such as UFO, DSCS, WGS, MUOS, AEHF and EPS. Identified risk mitigation approaches.  Integrated Master Schedule Environment (IMSE): Significantly increased IMSE capability to include command and control, as well as major defense acquisition programs for supporting acquisition events such as IPT/OIPT/DAES reviews and to evaluate the impact on capability deliveries based on key acquisition milestones, test events and production decisions.			

DATE: April 2013

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secreta	ry Of Defense	DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604771D8Z: Joint Tactical Information Distribut	tion System (	(JTIDS)	
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
<ul> <li>Ground/Air/Space Network Performance: Assessed aerial layer waveform complexity in implementation and to harmonize tactical datalinks and ISR newaveform implementation (WNW, SRW, SINCGARS, HNW) and ground force QCDI Model Extension: updated the model's typical data rates to a range, representation to account for variations among users within a class.</li> <li>Aerial Networks Roadmaps: Developed roadmaps to guide the evolution of 5th generation fighters and the force multiplier effects of networking aircraft. tactical and air-ground/air-space domains.</li> <li>Ground Networking Roadmaps: Developed roadmaps to guide the evolution Addressed lower echelon and brigade/backbone domains.</li> <li>SATCOM Common Systems Roadmap: Developed roadmaps to guide the resilient gateway infrastructure with lower operating costs and the ability to resilient gateway infrastructure with lower operating costs and the ability to resilient gateway evolution and resource management domains.</li> <li>C2 Capability Planning, Technical Development and Reference Model: Estimplementation cost and progress and funded secure data tagging to support (APEX). Conducted technical reviews to refine implementation approaches festablished APEX-based capabilities-based and technical reference architectoral tactical and operational levels.</li> <li>C2 Studies and Analyses: Developed plan of action and milestones to implementation and practices were studied including concepts, principles, processoriated with the provision of a robust secure networked C2 infrastructure.</li> <li>Space Control and C2 Space Portfolio: Provided technical expertise, systems engineering and practices were studied including concepts, principles, processociated with the provision of a robust secure networked C2 infrastructure.</li> <li>Space Control and C2 Space Portfolio: Provided technical expertise, systems engineering and schedule variance discovery and internal reviews; Conducted technical published Cascading Debris Analysis and strategy report; Completed Spanlys</li></ul>	tworks. Provided technical risk assessments for the IP routing network architectures. It distribution, and/or agent based time variant of aerial networks so that DoD takes full advantage of Address air-air high capability transport and air-air on of ground networking radios and waveforms.  It also tracking rechanisms for a more exprovision resources within minutes vice days and attablished tracking mechanisms to assess C2 data attablished tracking mechanisms to assess C2 data attablished tracking mechanisms to assess C2 data attablished tracking mechanisms and Execution for C2 net-centric data services and strategies. Setures.  It DoD net-centric data strategy implementation into selement JC2 capability AoA recommendations. If action and milestones to implement the Joint C2 netrol Research and Technology Symposium and actional C2 communities from government, academia, Agile C2. The state of the art of Agile C2 systems asses, and metrics to meet the unique challenges of the ems engineering to support acquisition and planning and Enterprise Strategy & Roadmap for Space Control; the ering to support acquisition and planning decisions, nical analysis of Space Fence Program; Conducted			

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 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604771D8Z: Joint Tactical Information Distribut	ion System (	JTIDS)	
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
<ul> <li>Strategic Space Environment: Provided analysis in support of decisions aff</li> <li>OCX Deep Dives: Conducted technical analysis on the replacement for the and recommended technical approaches for developing this capability and its</li> <li>Environmental Monitoring: Developed a "Day without Weather" Phase II and operations given the loss of various Environmental Monitoring/METOC capable for Meteorological Services and Supporting Research; developed Space Weat Strategy &amp; Integrated Schedule.</li> <li>Space Access: Provided technical expertise, systems engineering to suppose S&amp;T Test Strategy; developed DoD Space Access Strategy/Roadmap; propulsion capabilities.</li> <li>PNT Mission Assurance (MA): Provided analysis, assessments and policy for procurement, deployment/fielding, and operation of all DoD GPS PNT and NARA Rapid Acquisition of Capabilities for Cyberspace Operations: In response to processes for rapid acquisition of capabilities for cyberspace operations. Described Decision Strategy</li> <li>FY 2013 Plans:</li> </ul>	e GPS Ground command and control System, OCX, associated should cost estimates. alysis to examine the impacts to military ilities; completed DoD inputs into Federal Plan ther S&T Strategy; developed DMSP Follow-on art acquisition and planning decisions; Developed conducted technical assessment of alternative formulation towards the development, acquisition, aVWAR systems. Section 933 of the FY 2011 NDAA, developed cribed these processes and the proposed Cyber			
<ul> <li>Joint Tactical Network Center: Provide comprehensive technical assessment WNW, MUOS and TTNT. Analyze requirements of new waveforms, achievable spectral efficiency performance characteristics. Evaluate software communications waveform portability.</li> <li>Beyond Line of Sight (BLOS) Analysis and Systems Engineering: Provide an for BLOS communications in contested and denied environments consisting of communications. Assess communications performance in anti-jam, anti-access predict performance of network architectures and technologies and assess per Protected SATCOM AoA Technical Expertise: Provide analytic framework for AoAs and for use in Satellite Emulation Tools for modeling AEHF performancy Aerial Networks Roadmaps and Systems Engineering: Develop and maintains that DoD takes full advantage of 5th generation fighters and the force multiplication and technology maturation investment plans to accelerate fielding on JTRS Waveform Assessments: Assess waveforms (WNW, SRW, SINCGAF recommendations for ground force IP routing network architectures and interest.</li> </ul>	te throughput, scalability, anti-jam, LIP/LPD and ations architectures for relevance and support for rechitectural guidance and technical analysis of a combination of SATCOM and aerial as area denial environments. Improve ability to enformance of directional apertures. Or assessing protected SATCOM options in support nace.  In roadmaps to guide the evolution of aerial networks applier effects of networking aircraft. Maintain velop roadmaps to address air-ground/air-space with aerial networks roadmaps. Develop detailed risk of advanced TDLs to 5th generation fighters.			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretar	y Of Defense	DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604771D8Z: Joint Tactical Information Distribut	ion System (	JTIDS)	
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
risk analyses and test review recommendations for lowering cost and complete networks harmonization.  — MIDS-JTRS TTNT: Provide program assessments to evaluate cost, schedu MIDS-J radio. Assess efforts to insert the TTNT version 7 waveform into this performance characteristics and test plans to verify performance. Evaluate the MDA decision making.  — Ground Networking Roadmaps: Develop and maintain roadmaps to guide the waveforms. Maintain roadmaps for lower echelon and brigade/backbone doed domain. Analyze Army and Marine system architectures for brigade and MET — MUOS AoA Support: Conduct MUOS follow-on study to determine potentia 2025. Develop study plan, architectural alternatives, detailed blue force demas desired requirements for future narrowband access waveforms and trade—Maritime Networks: Develop roadmaps to guide the evolution of maritime ship-ship, ship-air and ship-space domains. Identify essential components, e opportunities and key investment decisions to achieve affordability and perfo—Airborne Maritime Fixed (AMF) JTRS: Assess the AMF program to include independent technical reviews and recommend program performance improperformance objectives. Provide a technical assessment of the network efforce—MUOS System End-to-End Integration: Develop comprehensive systems e Assess military standard/specifications and interface control documents for cominimize efforts required to certify new MUOS end user terminals.  — SATCOM Common Systems Roadmap: Maintain roadmaps to guide the excession gateway infrastructure with lower operating costs and the ability to rehours. Address gateway evolution and resource management domains. Developments and quantify ISR satellite communications demand and throughput replan, in coordination with USD(I), for investments in Military Ka-band capable leased SATCOM to the WGS military satellite constellation.  — Quantitative Capability Delivery Increments (QCDI)/FLOWNET: Develop at to include NxN demand and conduct analyses of future end-to-end networks. Network Integration Exe	alle and technical progress for developing the radio. Assess TTNT software development, target the acquisition strategy and core material to inform the evolution of ground networking radios and mains. Develop roadmap to address ground to space a networks to align with roadmaps.  all courses of action for replacing the MUOS system in and profiles, threat laydowns and cost models as well off impacts on cost/performance of future terminals. radios, waveforms and networks. Address LOS nabling technologies, program technology insertion remance objectives.  The risk of vendor selected radios. Conduct verment options to meet cost, schedule and cits of a WNW airborne node.  Ingineering, test and terminal certification plans.  Configuration management. Engineer the system to reprovision resources within minutes vice days and elop a plan for integrating teleport, STEP and service aleased commercial SATCOM to MILSATCOM assets. Requirements. Develop a business case and transition to terminals to enable transition from OCO funded and implement updates to QCDI and FlowNET models residing in surface, aerial and space layers.  The provision resources within minutes vice days and elop a plan for integrating teleport, STEP and service and implement updates to QCDI and FlowNET models residing in surface, aerial and space layers.			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secreta	ry Of Defense	DATE:	April 2013			
APPROPRIATION/BUDGET ACTIVITY 0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604771D8Z: Joint Tactical Information Distribut	oution System (JTIDS)				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014		
DoD sources and assess whether the data produce an accurate portrayal of prioritized courses of action with emphasis on best cost/performance deliver – Cyber Investment Management: Synchronize and coordinate cyberspace assessments, and ensure cyberspace investments align with Department prioritized to provide support of the Cyber Investment Management Board and direction.  Joint C2 Portfolio Management: Support development, integration and test COCOMs and deliver the FY15-19 version of the Joint C2 Sustainment and – Adaptive Planning and Execution (APEX): Provide management oversigh sources as the APEX technical integrator. Update the APEX technical archit Update APEX data architecture and standards and develop technical and sy across DoD.  C2 Data: Provide technical expertise for ensuring C2 data are visible, acceupdate the C2 data model and standards (C2 Core) for component implement roadmap and develop a C2 data architecture.  Joint C2 Architecture: Provide the technical expertise necessary to update C2 Transition Architecture:  C2 Technical Analysis: Provide technical analysis for the development of C2 evolution of joint and service C2 programs and functional requirements. Syn Intelligence Information Enterprise efforts, develop initial C2 CDI roadmap a programs for intelligence-operations information sharing.  C2 Research: C2 Theory is significantly ahead of the practice and more efformed among the C2 research, analysis and operational communities at – Friendly Force Tracking/ Combat Identification: Assess and provide recomnand FOC in 2020. Finalize US/ NATO Mode 5 IFF releasability policy. Provident Compatibility / interoperability with DoD Mode 5 technical standards.  Space Situational Awareness: Conduct Geo SSA architectural analysis in technical assessment of Alternative Sources of GEO SSA. Conduct technical capabilities that could be used to implement the GEO SSA strategy. Develo SST Technical Assessment Analysis & Assessment of DoD Use of Foreign/data strategy.	ry to the warfighter. acquisition activities, conduct quantitative iorities, required capabilities and evolving cyber evelop implementation guidance and associated activities across the services, agencies and Modernization Plan. It of APEX acquisition activities and authoritative data ecture to include logistics and intelligence planning. In Intelligence planning was standards for APEX framework for application existens standards for APEX framework for application existens. Update the C2 Authoritative Data Source of the Joint C2 Objective Architecture and FY15 Joint C2 Capability Delivery Increments to guide the activities C2 development efforts with Defense and update the C2 CDI roadmap with linkages to ISR offert needs to be made to "operationalize" the theory endership philosophy, with C2 Agility as the enabling robust Mission Command. As a result, closer ties will and to enhance the state of C2 practice significantly. Immendations for achieving Mode 5 IFF IOC in 2014 detechnical support to NATO C3B Capability Panel NAG) 4193 incorporates changes necessary for support of space surveillance telescope decisions and all analysis on emerging and existing technologies and petechnology roadmaps and investment strategies.					

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary	y Of Defense	DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	1		
0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)	PE 0604771D8Z: Joint Tactical Information Distribut	tion System (	JTIDS)	
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
<ul> <li>Space Control/Space C2: Conduct Space Protection Architectural Analysis; Space Control Mission area through 2025.</li> <li>Space Access: Conduct net centric review/technical assessment of Spacelit &amp; Enterprise Strategy for capabilities through 2025 Conduct technical assess Operations (SATOPS) enterprise.</li> <li>Environmental Monitoring: Develop DoD inputs for annual Federal Plan for Lead METOC Data Denial Implementation team; Conduct analysis in support USG weather satellite common ground system compliance with DoD Data Deactivities at McMurdo Station, Antarctica; develop METOC data strategy; develop Non-Intelligence Space Programs Technical Assessments: Conduct non-intattributes to include data strategies, systems engineering, risks and mitigation follow-on, JMS, Launch Vehicle New Entrants, AFSCN, SST and SSBS follow</li> <li>PNT Technical Assessments: Conduct reviews of all phases of the GPS ensuccessful MGUE MS B in FY14 so that DoD is compliant with congressional mitigation strategies for cost effective delivery of capabilities. Provide a roadn capabilities.</li> </ul>	ft Range; Develop Space Ranges Roadmap ment and net centric review of DoD Satellite  Meteorological Services and Supporting Research; of Defense Weather AoA; conduct assessment of enial requirements; DoD Lead on Antarctic treaty elop DoD National Space Weather Strategy. relligence space program reviews on net-centric ns. Support milestone decisions for weather satellite v-on activities. Interprise programs to increase the likelihood of a mandates. Assess high risk areas and develop			
<ul> <li>FY 2014 Plans:</li> <li>C4ISR Acquisition: Provide technical assessments and programmatic record address interoperability gaps and work early in the systems engineering and are delivered and updated.</li> <li>ACDI/FLOWNET: Conduct an analysis in an approved A2AD scenario to un capabilities and ensure synchronization of the space, aerial, surface and term in degraded communications environments. Conduct detailed analysis on Arrairborne network structures to validate quantitatively the performance and proposessing of ISR Sensor Data: Assess how communications lin processing of ISR sensor data to include storage, compression and automate relative to reduced spectrum demand or commercial SATCOM leases, termin costs.</li> <li>MUOS Follow On System AoA: Based on the results of FY13 activities, co and acquisition strategies and consider trade space segment versus terminal Determine requirements for future narrowband access waveforms and trade-Analyze MUOS follow on alternatives in A2AD scenarios against sophisticate</li> </ul>	nderstand investments in communications ninal segments in order to provide communications ny TBCT tactical networks as well as extensions into spected benefits of different waveforms and networks. It demands can be reduced through onboard and filtering. Quantify benefits that could be achieved all upgrades and MILSATCOM constellation upgrade and the impact on end-to-end performance.			

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary	y Of Defense	DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	, , , , , , , , , , , , , , , , , , ,		
0400: Research, Development, Test & Evaluation, Defense-Wide	PE 0604771D8Z: Joint Tactical Information Distribut	tion System (	(JTIDS)	
BA 5: System Development & Demonstration (SDD)				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
<ul> <li>Tactical Network Cyber Vulnerability Assessments: Perform cyber vulnera 3, AEHF, WGS, MUOS, Teleport and key technologies with wide use across control plans, remote management control ports and methods. Recommend on the networks programs to address cyber vulnerabilities and to inform milestone of Dismounted Tactical Edge Mobile Applications: Characterize current performing disadvantages intermittent low bandwidth tactical links based on measured S Ground/Air/Space integrated Networks Performance Assessment: Facilita capabilities. Evaluate new waveform technologies, wireless communications technical assessments of onboard processing on UAS systems to reduce deraccelerated methods to achieve certified test data for non-developmental pro C2 Portfolio: Update the C2 Strategic Plan (FY14-19) based on results of Update the DoD C2 Implementation Plan (FY14-19) to achieve goals and obj C2 Research: Provide conceptual foundation, metrics and empirical evider support to US participation in NATO and other international C2 research effor Acquisition Management: Provide technical assistance in developing IT rel Series 5000 necessitated by changes in statue, regulation and management Cyber Investment Management: Synchronize and coordinate cyberspace assessments, and ensure cyberspace investment Management Board and dedirection.</li> <li>Space Access: EELV New Entrant Strategy/Technical Assessment &amp; Cost implement National Security Space Access &amp; Space Range Roadmap; conductive Space Access: EELV New Entrant Strategy/Technical Assessment &amp; Cost implement National Security Space Access &amp; Space Range Roadmap; conductering Methodorical American Plan for Lead METOC Data Denial Implementation team; Develop METOC/Weather Eresults of Defense Weather Analysis of Alternatives (AoA); conduct assessment with DoD Data Denial requirements; DoD Lead on Antarctic treat METOC data strategy; implement DoD National Space Weather Strategy — Space Control/Space C2/SSA: Complete GEO SSA Architectural/Cost-Ber of DoD Use of Foreig</li></ul>	tactical networks. Review system design documents, corrective actions to specific communications and ecisions.  rmance (bandwidth, latency, jitter, persistence0 of RW and narrowband SATCOM performance. te the development and analysis of waveform waveform development and management. Perform mand for communications link bandwidth and identify ducts.  The next QDR and Chairman's Joint Force 2020. The ectives of the DoD C2 Strategic Plan. The loce to operationalize Agile C2. Provide technical tts.  The acquisition policy, including updates to DoD direction. The equivalence of the local direction activities, conduct quantitative porties, required capabilities and evolving cyber evelop implementation guidance and associated  Benefit Analysis/Potential AoA for EELV follow-on; and the Centric Review/Technical Assessment. The Meteorological Services and Supporting Research; Enterprise Strategy and Roadmap implementing tent of USG weather satellite common ground system by activities at McMurdo Station, Antarctica; implement the effit Analysis; conduct Analysis & Assessment to the state of the conduct of the c			

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary Of Defense

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

0400: Research, Development, Test & Evaluation, Defense-Wide

BA 5: System Development & Demonstration (SDD)

PE 0604771D8Z: Joint Tactical Information Distribution System (JTIDS)

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2012	FY 2013	FY 2014
<ul> <li>Non-Intelligence Space Programs Technical Assessments: Conduct non-intelligence space program reviews on net-centric</li> </ul>			
attributes to include data strategies, systems engineering, risks and mitigations. Support milestone decisions for programs			
including weather satellite follow-on, JMS, Launch Vehicle New Entrants, AFSCN, SST and SSBS follow-on activities.			
- PNT Programs Technical Assessments: Conduct deep dive technical analyses to understand all phases of the GPS enterprise			
programs. Review PNT programs for data strategies, systems engineering, risks and mitigations in support of milestone decisions.			
- PNT Portfolio Management: Implement PNT Assurance Investment Strategy and Roadmap. Implement NAVWAR Investment			
Strategy and Roadmap as well as material in support of major program milestones and internal OSD reviews.			
<ul> <li>PNT NATO and Allied Interoperability: Ensure PNT capabilities are interoperable and supportable with other relevant</li> </ul>			
commercial, civil and military Allied systems. Chair NATO Navigation Warfare (NAVWAR) working group, oversee foreign military			
sales and other technical interchange with allies regarding PNT, GPS and NAVWAR technologies. Provide technical expertise for			
bilateral and multilateral activities in NATO NC3B.			
<ul> <li>PNT Strategy: Develop enterprise level acquisition strategies &amp; policies in relation to PNT. Oversee implementation and</li> </ul>			
compliance of the GPS Security Policy and develop international agreements to ensure US forces maintain global access.			
Accomplishments/Planned Programs Subtotals	16.775	20.688	19.475

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

N/A

# <u>Remarks</u>

### E. Acquisition Strategy

In executing JTDL tasking, existing cost-plus contracts will be utilized.

-Driven reviews in support of the JCIDS, acquisition and PPBE processes.

#### **F. Performance Metrics**

Enterprise-Wide Alignment: Accelerate DoD information age transformation to increase the effectiveness and efficiency of the warfighting, intelligence and business missions.

#### Measures:

- Timely development and issuance of policy and guidance
- Instantiation of enterprise-wide system engineering for the Global Information Grid across DoD

Portfolio Management: Provide for the timely and effective delivery of key Net-Centric capabilities through portfolio management Measures:

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Sec	retary Of Defense	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	,
0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)		ormation Distribution System (JTIDS)
<ul> <li>Key milestones completed for major net-centric acquisitions</li> <li>Number of major systems through net-centric event</li> </ul>		

PE 0604771D8Z: *Joint Tactical Information Distribution System (JT...* Office of Secretary Of Defense

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Office of Secretary Of Defense

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

0400: Research, Development, Test & Evaluation, Defense-Wide BA 5: System Development & Demonstration (SDD)

PE 0604771D8Z: Joint Tactical Information

771: Link-16 Tactical Data Link (TDL)

Distribution System (JTIDS)

Transformation

Support (\$ in Million	s)			FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contrac
TBD	TBD	TBD:TBD	-	16.775		20.688		19.475		-		19.475	Continuing	Continuing	
		Subtotal	0.000	16.775		20.688		19.475		0.000		19.475			
			All Prior Years	FY 2	2012	FY 2	2013	FY 2 Ba	-	FY 2		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	0.000	16.775		20.688		19.475		0.000		19.475	·		

Remarks