Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Office of the Secretary Of Defense

bretary or belefise

**Date:** May 2017

# Appropriation/Budget Activity

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

R-1 Program Element (Number/Name)

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

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COST (\$ in Millions)	Prior			FY 2018	FY 2018	FY 2018					Cost To	Total
COST (\$ III WIIIIONS)	Years	FY 2016	FY 2017	Base	oco	Total	FY 2019	FY 2020	FY 2021	FY 2022	Complete	Cost
Total Program Element	71.605	13.774	16.288	15.358	-	15.358	13.973	14.125	14.401	14.702	Continuing	Continuing
771: Link-16 Tactical Data Link (TDL) Transformation	71.605	9.849	11.793	11.258	-	11.258	9.973	10.125	10.301	10.702	Continuing	Continuing
105: Cyber Capability & Platform Resilience	0.000	3.925	4.495	4.100	-	4.100	4.000	4.000	4.100	4.000	Continuing	Continuing

### A. Mission Description and Budget Item Justification

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	14.257	16.288	16.078	-	16.078
Current President's Budget	13.774	16.288	15.358	-	15.358
Total Adjustments	-0.483	0.000	-0.720	-	-0.720
<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>	-	-			
Reprogrammings	-	-			
<ul> <li>SBIR/STTR Transfer</li> </ul>	-0.483	-			
<ul> <li>SRRB Reductions/Management</li> </ul>	-	-	-0.614	-	-0.614
Realignment					
DTIC Offset Bill	-	-	-0.106	-	-0.106

### **Change Summary Explanation**

Decrease in FY16 Actuals due to SBIR/STTR adjustments

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense						Date: May 2017						
Appropriation/Budget Activity 0400 / 5							Number/Name) :-16 Tactical Data Link (TDL) nation					
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
771: Link-16 Tactical Data Link (TDL) Transformation	71.605	9.849	11.793	11.258	-	11.258	9.973	10.125	10.301	10.702	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

### A. Mission Description and Budget Item Justification

Funds will be used to provide technical and systems engineering, acquisition assistance and management oversight of critical Command, Control, Communications (C3), non-intelligence space, and cyber programs, projects and activities to maximize the return on investment in information technology resources and assist programs to be successful as the Department migrates to a structure implementing Joint Information Environment (JIE) technical standards. The Joint Tactical Information Distribution System (JTIDS) funding fulfills the Department's requirement for joint and combined network-enabled tactical data link (TDL) capabilities, netcentric/JIE communications which comply to standards for interoperability and seamless integration with joint communication systems as well as the mission functionality that uses these systems. Also, these funds underwrite assessment of design and procurement and execution correction of critical information systems from initial definition through development to successfully delivered configurations. Funds provide expertise supporting technical oversight of design, performance and cost parameters of key Defense IT and National Security Systems and supporting infrastructure including critical cyber assessments. Resources in this program fund architecture design and development, portfolio management, enterprise-wide systems engineering and operational impact analyses related to C3, non-intelligence space, and cyber activities. Typical deliverables associated with the instantiation of net-centric capabilities for these mission areas include network and vulnerability assessments, migration plans, investment strategies, architectures, roadmaps and technical guidance documentation.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018
Title: Common Joint Tactical Information Initiatives	9.849	11.793	11.258
FY 2016 Accomplishments:  - Common Data Link (CDL) Principal Staff Assistant: Continued to coordinate with CDL Executive Agent to develop and maintain a technology roadmap and terminal database to improve interoperability, configuration management, and focused technology investments. Developed policy to reflect modernization in CDL waveforms and encryption. Continued to oversee development and validation of cryptographic core modernization, Small Unmanned Aircraft System (SUAS) Common Data Link (CDL) terminals, CDL waveform, CDL Compliance Test Tool, and Reference Implementation Laboratory development efforts. Continue development of transition strategy to modernize DoD ISR waveforms to converge on a DoD standard for tactical ISR communications. Updated and publish the CDL enterprise roadmap that includes platform schedules and waveform modernization opportunities. Analyzed and assess mitigation strategies and technologies with regard to emerging activities that could restrict CDL spectrum access to ensure continued robust ISR communications capabilities. Updated Independent Assessment Update of CCM Technology Readiness. Continued planning and conduct of CDL SRP and IPT meetings to develop and refine the CDL investment portfolio and to identify strategic ISR communications issues the DoD will face in the future.			

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the	ne Secretary Of Defense	Date	e: May 2017	
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604771D8Z I Joint Tactical Information Distribution System (JTIDS)		Project (Number/Name) 771	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 201	6 FY 2017	FY 2018
Conducted analysis of Airborne ISR communications transport ind Combatant Commands in order to identify a way ahead for estable - Acquisition Management and Oversight: Provided technical assist updates to DoD Series 5000 necessitated by changes in statue, reassessments and programmatic recommendations across DASD in the systems engineering.  - FAB-T: Analyzed readiness for DT&E and OT&E as command and integrated for test. Provided risk assessments of system integrates transportable systems prior to installation. Worked with Air Force capability.  - Wideband SATCOM Capability: Execute plans for expansion of Review by Joint Staff and prepare for an AoA to determine the way COMSATCOM as an integrated wideband SATCOM capability.  - AEHF: Provided programmatic analysis, technical reviews, and integration, and procurement risks. Provided risk assessments as Mission Planning Element, and develop KMI to replace EKMS.  - EPS: Provided programmatic analysis, technical reviews, and a integration, and procurement risks. Assessed risk as the TT&C in Protected SATCOM AoA: Finalized assessment through analysis domain alternatives to support Protected SATCOMs (including into alternatives in Final Report to provide recommendations for technology and the Command Capability (NLCC): Continued in chair of the Council on Oversight of the National Leadership Commond Capability (NLCC): Continued in the Council on Oversight of the National Leadership Commond Capability (NLCC): Continued in the Council on Oversight of the National Leadership Commond Capability (NLCC): Continued in the Council on Oversight of the National Leadership Commond Capability (NLCC): Continued in the Council on Oversight of the National Leadership Commond Capability (NLCC): Continued in the Council on Oversight of the National Leadership Commond Capability (NLCC): Continued in the Council on Oversight of the Council on Overs	ishing an effective/efficient global enterprise capability. stance in developing IT related acquisition policy, including egulation and management direction. Provide technical functional areas to address interoperability gaps and work post terminal and PNVC production units begin to be delive gration into the various airborne, ground fixed and ground to implement DSD's direction as end-to-end integrator of Plance SMC's COMSATCOM role. Support Wideband Requirement are forward after launching remaining WGS satellites, and assessments of the AEHF program to reduce development, at the program continues to launch spacecraft and improve the sessments of the EPS program to reduce development, system is integrated and tested prior to operations. and synthesis of performance, cost and resilience data for frastructure to support NC3 requirements). Documented and chnology investments and associate acquisition strategy for an lead role as primary action office for AT&L in his role as command, Control, and Communications System (CONLC3S) are eall aspects of preparation and conduct of CONLC3S essentially prepare/tee up decisions for the CONLC3S to not documents. Supports the Joint Staff led Nuclear C2 CBA to DNLC3S.  programmatic analysis and insights in support of C3CB and follow-on development and operational test activities. In minals and get them tested and certified for operation over intation including ADM for follow-on sustainment activities for the control of the control o	early red NVC ents , he cross- alysis o- nake to its		

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B. Accomplishments/Planned Programs (\$ in Millions)		FY	2016	FY 2017	FY 2018
ASN RDA staff, and the Defense Contract Management Agency. Army Forces Strategic Command in support of Early Operational - Navy Multiband Terminal. Continued to track progress toward of manager, ASN RDA staff and the Defense Contract Management Assessment Reports (PARs) advising C3CB leadership should at - Cooperative Engagement Capability. Participated in the CEC C Military Deputy, ASN RDA. Performed follow-up briefings with the CEC Program Manager, ASN RDA staff and the Defense Contract Performance Assessment Reports (PARs) advising C3CB leaders Common Array Block antenna.  - Handheld, Manpack, and Small Form Fit (HMS) JTRS: Assessed (Modified Non-Developmental Item). Conduct independent technic options to meet cost, schedule and performance objectives. Provider both Rifleman and Manpack radios. Provide technical and pro Full Rate Production decision review. Assessed the results of Initexisting manufacturing process, performance and reliability, and state Production.  - Joint Tactical Networking Center (JTNC) JTRS: Provided techn Acquisition Executive's role as the co-chair of the JTNC Board of BoD.  - All JTRS (HMS, MNVR, AMF, JTN) Programs - Provided assessing accordance with DoD Series 5000 and applicable senior management milestone reviews, to include adequate documentation of acquisition program oversight. Provided programmatic recomme - Mid-Tier Networking Vehicular Radio (MNVR) JTRS: Assessed radios (Modified Non-Developmental Item). Conduct independent improvement options to meet cost, schedule and performance ob competition process for MNVR radios.  - Provide assessments of DoD Business System programs with reand applicable senior management direction. Assessed readines adequate documentation of compliance with statute/regulation/poprogrammatic recommendations regarding cost/schedule/ performance adequate documentation of compliance with statute/regulation/poprogrammatic recommendations regarding cost/schedule/ perform	Acceptance and Full Operational Acceptance. completion of NMT deliverables. Interact with the NMT proget Agency (DCMA). Reviewed monthly DCMA Performance my issues arise with NMT execution status. Configuration Steering Board, Gate 6 review hosted by the e CEC Program Manager and DOT&E. Interactacted with the content of Management Agency (DCMA). Reviewed monthly DCMA ship of CEC execution status especially with regard to the edit the HMS program to include the risk of vendor selected recall reviews and recommend program performance improve ided a technical assessment of full and open competition programmatic analysis to support the Defense Acquisition Execution (IOT&E) as well as the sustainment capabilities to formulate a recommendation for itical and programmatic analysis to support the Defense Directors (BoD). Provided Secretariat functions for the JTN sments of program compliance with IT related acquisition programent direction. Assessed readiness for major acquisition of compliance with statute/regulation/policy associated with notations regarding cost/schedule/performance tradeoffs. The AMNVR program to include the risk of vendor selected technical reviews and recommend program performance jectives. Provided a technical assessment of full and open elated acquisition policy, in accordance with DoD Series 500 serion major acquisition program milestone reviews, to include the sacceptance of the provided with acquisition program oversight. Provide	adios ment ocess cutive' Full- IC blicy,			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018		
- Ground Tactical Networks Advanced Capabilities: Matured narrowth hardware prototype, robust modeling and simulation, and reusable soft transition into non-developmental item radios.  - Integrated Electromagnetic Spectrum Operations (EMSO): Track im development plans. Assess and down-select technical interoperability funding and testing to assess maturity of solutions. Develop science technologies to programs of record for spectrum-dependent systems electronic warfare systems and continue work on communications sy - Tactical Data Link Modernization: Accelerated improvements in TD for an Executive Agent (EA) for Airborne Tactical Data Networking to and coordinated S&T investments for future capabilities. Structure Link Multi-function Advanced Data Link (MADL) and develop open archite concepts for common open architecture TDL terminal for potential us Strengthen acquisition oversight, system engineering, standards and Weapons (NEW).  - Warfighter Information Network – Tactical (WIN-T): Provided assess and Net Centric Waveform software enhancements into the Incrementhe Highband Networking Waveform 3.0 capability and track its progress of the Highband Networking Waveform 3.0 capability and track its progress of the Point C2 Portfolio Management: Supported development, integration Combatant Commands and deliver the FY17-21 version of the Joint C2 Data: Provided technical expertise for ensuring C2 data are visit Provide technical assessment and assistance for implementation of Normation exchanges across the DoD. Update the C2 Authoritative – Joint C2 Architecture: Provided technical expertise for the update the development activities across the Services, Agencies and Combatan – Friendly Force Tracking/ Combat Identification: Provided technical and Mode 5 IFF IOC and FOC. Provided technical assistance in develop Series 5000 necessitated by changes in statue, regulation and mana – Environmental Monitoring: Developed DoD inputs for annual Federa Supported various Federal and OSD offices on the subjects of: Spac capabil	oftware code. Form industry engagement to promote inplementation of iEMSO strategy in radio and EW device ity and architectural approaches. Ensure adequate and technology roadmap to synchronize transition of kets. FY16 work will focus will focus on selected sensor and ystems.  OLs to address A2AD and contested operations. Built care by bring cross-Service high level focus to TDL improvements and the evolution plans. Worked with F-35 program to base exture implementation of MADL waveform. Developed in the end on next generation aircraft and F-35 block upgrades. If interoperability in use of TDLs on Network Enabled essment of the transition of Increment 3 Network Operation at 2 hardware units for fielding. Provided final assessments for entry into the Waveform Repository. On and test activities across the Services, Agencies and C2 Sustainment and Modernization Plan. Dele, accessible, understandable, trustable and interoperational Information Exchange Model (NIEM)-based Data Source roadmap and update C2 data architecture. The Joint C2 Architecture to guide Joint C2 capability area and C0 C2 Company and the commands.  Authority and restance and recommendations for achieve mentation of Mode 5 including supporting spectrum forms related acquisition policy, including updates to Dodagement direction.  All Plan for Meteorological Services and Supporting Reserved Weather, Spectrum losses and weather, Ionospheric tess, and DoD representation for METOC; Updated as	se nts seline itial ns ent of wing earch;				

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2016	FY 2017	FY 2018
of Alternatives (AoA); conduct assessment of USG weather satelli data strategy; implemented DoD National Space Weather Strateg process, other OSD PSAs, EA for Space office, COIs, etc. on ME - Space Ops: Conduct SATOPS Modernization technical assessm Implementation; conduct AFSCN Event Driven Net Centric Review - Space Control/Space C2/SSA: Performed continued monitoring programs.  - Non-Intelligence Space Programs Technical Assessments: Perf space, PNT, METOC programs and others. Reviewed system des and methods. Recommend corrective actions to specific space, P to inform milestone decisions. Conducted non-intelligence space pengineering, risks and mitigations. Supported acquisition mileston activities.  - PNT Programs Technical Assessments: Continued OIPT leader Review to verify readiness of GPS III, MGUE, and OCX programs synchronization of the three programs to meet the direction of the phases of the GPS enterprise programs and predecessor program for data strategies, systems engineering, risks and mitigations in sexpedite fielding and support of M Code capability for forces in the PNT Portfolio Management: Continued implementation of GPSE AoA recommendations are addressed. Continued to support major Strategic Portfolio Reviews, DMAGs, etc.	gy; advise Defense Space Acquisition Board, FCB/JROC/JC TOC matters. Inents; provide technical Oversight/AFSCN Modernization w/Technical Assessment. It of cyber testing and cyber vulnerabilities of critical space formed cyber vulnerability and cyber suitability assessments sign documents, control plans, remote management control PNT, and METOC programs to address cyber vulnerabilities program technical reviews on to include data strategies, system decisions for programs including weather satellite followership role. Developed and implement Annual GPS Enterprises to progress to next phase of the acquisition process. Ensure DAE. Conduct deep dive technical analyses to understant ms that are part of the GPS Enterprise. Review PNT programs support of milestone decisions. Initiate and conduct studies the field.  EM/PNT Assurance Investment Strategy and Roadmap, ensured the conduct of the conduct of the conduct of the conduct studies are field.	s on I ports and stems on se are ad all ms to			
FY 2017 Plans:  - Common Data Link (CDL) Principal Staff Assistant: Continue to a technology roadmap and terminal database to improve interope investments. Continue implementation and oversight of an enterpronuerge on a DoD standard for tactical ISR communications. Up trends in technology that can add enhanced capabilities to CDL symeetings to develop and refine the CDL investment portfolio and in the future. Conduct analysis of Airborne ISR communications trand Combatant Commands in order to identify a way ahead for each Acquisition Management and Oversight: Provide technical assist updates to DoD Series 5000 necessitated by changes in statue, respectively.	erability, configuration management, and focused technology prise transition strategy to modernize DoD ISR waveforms to podate CDL technology development roadmap to reflect curry stems. Continue planning and conduct of CDL SRP and litto identify strategic ISR communications issues the DoD with ransport infrastructure in coordination with Joint Staff, Services tablishing an effective/efficient global enterprise capability. tance in developing IT related acquisition policy, including	y o ent PT II face ces			

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2016	FY 2017	FY 2018
assessments and programmatic recommendations across DASD function the systems engineering.  - FAB-T: Support IOT&E execution. Work to assure the program has a PNVC integration and test. Provide risk assessments of system integrat transportable systems prior to installation.  - Wideband SATCOM AoA: Conduct AoA plan assessing material solut traditional commercial supplied users considering life-cycle cost, perfor Support implementation and execution of the AoA plan including Senio control segments with associated user terminals for contested and ben - AEHF: Provide programmatic analysis, technical reviews, and assess integration, and procurement risks. Provide risk assessments as the promission Planning Element. Work to start efforts for the follow-on system - EPS: Provide programmatic analysis, technical reviews, and assess integration, and procurement risks. Assess risk as the TT&C system is efforts for the follow-on system to EPS.  - National Leadership Command Capability (NLCC): Continue in lead of the Council on Oversight of the National Leadership Command, Condirectly with the Executive Secretariat (DOD CIO) to oversee all aspect as well as the SSG and EMP meetings that are held to essentially prep meetings. Also lead review process for any NLCC related documents.  - Handheld, Manpack, and Small Form Fit (HMS) JTRS: Assess the HI (Modified Non-Developmental Item). Conduct independent technical reoptions to meet cost, schedule and performance objectives. Provide a for both Rifleman and Manpack radios. Provide technical and programm Full Rate Production decision review. Assess the results of Initial Oper manufacturing process, performance and reliability, and sustainment of Production.  - Joint Tactical Networking Center (JTNC) JTRS: Provide technical and Executive's role as the co-chair of the JTNC Board of Directors (BoD).  - All JTRS(HMS, MNVR, AMF, JTN)Programs - Provide assessments of accordance with DoD Series 5000 and applicable senior management milestone reviews, to include adequate documentation of	a successful LRIP-2 decision. Continue to support ation into the various airborne, ground fixed an ground ation into the various airborne, ground fixed an ground ations for WGS replenishment and for supporting other mance, suitability, operational effectiveness, and resil a radvisory Group meetings and evaluation of the spacing operating environments.  In the AEHF program to reduce development, or operations to launch spacecraft and improve the most of the EPS program to reduce development, a integrated and tested prior to operations. Work to state the extension of the tested prior to operations. Work to state the extension of the tested prior to operations. Work to state the extension of the tested prior to operations. Work to state the extension of the tested prior to operations. Work to state the extension of the tested prior to operations. Work to state the extension of the tested prior to operations. Work to state the extension of the tested of the tested prior to operations and the extension of the tested of the test	iency. e and e art chair cir ios ment cess cutive' cisting e isition cy, in gram			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY	2016	FY 2017	FY 2018
Mid-Tier Networking Vehicular Radio (MNVR) JTRS: Assess the (Modified Non-Developmental Item). Conduct independent technic options to meet cost, schedule and performance objectives. Provide for MNVR radios.  Provide assessments of DoD Business System programs with reland applicable senior management direction. Assess readiness for adequate documentation of compliance with statute/regulation/poli programmatic recommendations regarding cost/schedule/ perform.  Ground Tactical Networks Advanced Capabilities: Mature narrow hardware prototype, robust modeling and simulation, and reusable transition into non-developmental item radios.  Integrated Electromagnetic Spectrum Operations (EMSO): Track development plans. Assess and down-select technical interoperate funding and testing to assess maturity of solutions. Develop scient technologies to programs of record for spectrum-dependent system electronic warfare systems and continue work on communications.  Tactical Data Link Modernization: Track and assess first Link 16 Distribution System (MIDS-J) terminals (4th Gen aircraft), Communication System (MIDS-J) terminals (4th Gen aircraft), Communication strategies. Assess preliminary requirements for needs. Assess modeling and simulation infrastructure and currence decisions on TDL improvements.  Warfighter Information Network – Tactical (WIN-T): Review and a (HNW) 3.0 air and ground node demonstration. Track progress of technical review of the Increment 2 independent cyber design and assessments of Increment 2 performance and corrective actions to improvements, and performance optimization of the HNW, Tactical – Joint C2 Portfolio Management: Support development, integratio Combatant Commands and deliver the FY17-21 version of the Join C2 Data: Provide technical expertise for ensuring C2 data are vis Provide technical assessment and assistance for implementation of information exchanges across the DoD. Update the C2 Authoritative – Joint C2 Architecture: Provide technical expertise for the update the development activitie	al reviews and recommend program performance improve le a technical assessment of full and open competition pro lated acquisition policy, in accordance with DoD Series 500 or major acquisition program milestone reviews, to include cy associated with acquisition program oversight. Provide ance tradeoffs.  Whand dismounted communications capability with radio a software code. Form industry engagement to promote implementation of iEMSO strategy in radio and EW devices colitity and architectural approaches. Ensure adequate ce and technology roadmap to synchronize transition of kens. FY17 work will focus will focus on selected sensor and systems.  Capability improvements in Multi-function Information nications, Navigation & Identification (CNI) terminal in F-35 ne Tactical Data Networking and develop detailed roadmand MADL 2.0 version and applicability to next generation aircey with adversary threat emitters to improve investments assess the results of the Highband Networking Waveform the HNW 3.0 entry into the Waveform Repository. Provide implementation assessment. Provide technical reviews and include platform integration issues, Network Operations of I Relay Tower, and Range Throughput Extension Kit. In and test activities across the Services, Agencies and and the C2 Sustainment and Modernization Plan.	dios ment cess 00  e  e  e  f  f  f  f  f  f  f  f  f  f	2010		

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2016	FY 2017	FY 2018
<ul> <li>Friendly Force Tracking/ Combat Identification: Provide technical a Mode 5 IFF IOC and FOC. Provide technical support to DoD implement and assignment.</li> <li>Acquisition Management: Provide technical assistance in developi 5000 necessitated by changes in statue, regulation and management - Space Ops: Conduct SATOPS Modernization technical assessment Implementation; conduct AFSCN Event Driven Net Centric Review/Technical Assessments: Perform continued monitoring of cyprograms.</li> <li>Non-Intelligence Space Programs Technical Assessments: Perform space, PNT, METOC programs and others. Review system design of and methods. Recommend corrective actions to specific space, PNT to inform milestone decisions. Conduct non-intelligence space programineering, risks and mitigations. Support acquisition milestone decisions. PNT Programs Technical Assessments: Continue OIPT leadership Review to verify readiness of GPS III, MGUE, and OCX programs to synchronization of the three programs to meet the direction of the Dephases of the GPS enterprise programs and predecessor programs for data strategies, systems engineering, risks and mitigations in supexpedite fielding and support of M Code capability for forces in the field of Portfolio Management: Continue implementation of GPSEM/IAOA recommendations are addressed. Continue to support major preportfolio Reviews, DMAGs, etc.</li> </ul>	nentation of Mode 5 including supporting spectrum certifing related acquisition policy, including updates to DoD Soft direction.  Ints; provide technical Oversight/AFSCN Modernization Technical Assessment.  Ints and cyber vulnerabilities of critical space of the testing and cyber vulnerabilities of critical space of the couments, control plans, remote management control port, and METOC programs to address cyber vulnerabilities am technical reviews on to include data strategies, system technical reviews on to include data strategies, system to role. Develop and implement Annual GPS Enterprise of progress to next phase of the acquisition process. Ensurable Conduct deep dive technical analyses to understand that are part of the GPS Enterprise. Review PNT program opport of milestone decisions. Initiate and conduct studies field.  PNT Assurance Investment Strategy and Roadmap, ensurance in the conduct of the strategy and Roadmap, ensurance in the conduct of the strategy and Roadmap, ensurance in the conduct of the strategy and Roadmap, ensurance in the conduct of the strategy and Roadmap, ensurance in the conduct of the strategy and Roadmap, ensurance in the conduct of the strategy and Roadmap, ensurance in the conduct of	eries on orts and ems re d all ms to uring			
FY 2018 Plans:  - Common Data Link (CDL) Principal Staff Assistant: Continue to come a technology roadmap and terminal database to improve interoperal investments. Continue implementation and oversight of an enterprise converge on a DoD standard for tactical ISR communications. Update trends in technology that can add enhanced capabilities to CDL systemetings to develop and refine the CDL investment portfolio and to in the future. Conduct analysis of Airborne ISR communications transland Combatant Commands in order to identify a way ahead for estated	cility, configuration management, and focused technolog se transition strategy to modernize DoD ISR waveforms that CDL technology development roadmap to reflect curritiems. Continue planning and conduct of CDL SRP and I identify strategic ISR communications issues the DoD with sport infrastructure in coordination with Joint Staff, Servi	y o ent PT II face ces			

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Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604771D8Z I Joint Tactical Information Distribution System (JTIDS)	Project (Number/ 771 / Link-16 Tacti Transformation		(TDL)
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018
<ul> <li>Acquisition Management and Oversight: Provide technical assis updates to DoD Series 5000 necessitated by changes in statue, rassessments and programmatic recommendations across DASD in the systems engineering.</li> <li>FAB-T: Support IOT&amp;E execution. Work to assure the program PNVC integration and test. Provide risk assessments of system transportable systems prior to installation.</li> <li>Wideband SATCOM AoA: Conduct AoA plan assessing materia traditional commercial supplied users considering life-cycle cost, Support implementation and execution of the AoA plan including control segments with associated user terminals for contested an AEHF: Provide programmatic analysis, technical reviews, and a integration, and procurement risks. Provide risk assessments as Mission Planning Element. Work to start efforts for the follow-on - EPS: Provide programmatic analysis, technical reviews, and as integration, and procurement risks. Assess risk as the TT&amp;C sys efforts for the follow-on system to EPS.</li> <li>National Leadership Command Capability (NLCC): Continue in of the Council on Oversight of the National Leadership Command directly with the Executive Secretariat (DOD CIO) to oversee all as well as the SSG and EMP meetings that are held to essentially meetings. Also lead review process for any NLCC related docum - Handheld, Manpack, and Small Form Fit (HMS) JTRS: Assess (Modified Non-Developmental Item). Conduct independent techn options to meet cost, schedule and performance objectives. Prov for both Rifleman and Manpack radios. Provide technical and profull Rate Production decision review. Assess the results of Initia manufacturing process, performance and reliability, and sustainm Production.</li> <li>Joint Tactical Networking Center (JTNC) JTRS: Provide technic Executive's role as the co-chair of the JTNC Board of Directors (EAB) and proful as a serior manage accordance with DoD Series 5000 and applicable senior manage</li> </ul>	regulation and management direction. Provide technical functional areas to address interoperability gaps and work of the functional areas to address interoperability gaps and work of the functional areas to address interoperability gaps and work of the functional areas to address interoperability gaps and work of the functional areas to address interoperation into the various airborne, ground fixed an ground all solutions for WGS replenishment and for supporting other performance, suitability, operational effectiveness, and resil Senior Advisory Group meetings and evaluation of the space and benign operating environments.  It is sessessments of the AEHF program to reduce development, the program continues to launch spacecraft and improve the system to AEHF.  It is integrated and tested prior to operations. Work to state the integrated and tested prior to operations. Work to state the integrated and tested prior to operations. Work to state the program to include the risk of vendor selected radical reviews and recommend program performance improvered a technical assessment of full and open competition programmatic analysis to support the Defense Acquisition Executed and programmatic analysis to support the Defense Acquisition Executed and programmatic analysis to support the Defense Acquisition for Full-Ratical and programmatic analysis to support the Defense Acquisition policities of program compliance with IT related acquisition policities of program compliance with IT related acquisition policities.	early  I riency. Re and Re art Rechair Residences Rement Residences Recutive Recutive Residences Recutive Recuti		

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the	ne Secretary Of Defense	Date:	May 2017	
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604771D8Z I Joint Tactical Information Distribution System (JTIDS)	Project (Number 771 / Link-16 Tac Transformation		(TDL)
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018
milestone reviews, to include adequate documentation of complia program oversight. Provide programmatic recommendations regative and performance objectives. Provide programmatic recommendations regative and performance objectives. Provide programs to meet cost, schedule and performance objectives. Provide for MNVR radios.  Provide assessments of DoD Business System programs with reand applicable senior management direction. Assess readiness for adequate documentation of compliance with statute/regulation/pol programmatic recommendations regarding cost/schedule/ perform - Ground Tactical Networks Advanced Capabilities: Mature narrown hardware prototype, robust modeling and simulation, and reusable transition into non-developmental item radios.  Integrated Electromagnetic Spectrum Operations (EMSO): Track development plans. Assess and down-select technical interoperation funding and testing to assess maturity of solutions. Develop scient technologies to programs of record for spectrum-dependent systemelectronic warfare systems and continue work on communications. Tractical Data Link Modernization: Track and assess first Link 16 Distribution System (MIDS-J) terminals (4th Gen aircraft), Commu Weapons Data Link (WDL) radios. Begin standup of EA for Airbound modernization strategies. Assess preliminary requirements for needs. Assess modeling and simulation infrastructure and current decisions on TDL improvements.  Warfighter Information Network – Tactical (WIN-T): Review and (HNW) 3.0 air and ground node demonstration. Track progress of technical review of the Increment 2 performance and corrective actions to improvements, and performance optimization of the HNW, Tactical - Joint C2 Portfolio Management: Support development, integratic Combatant Commands and deliver the FY17-21 version of the Joi - C2 Data: Provide technical expertise for ensuring C2 data are vis Provide technical assessment and assistance for implementation information exchanges across the DoD. Update the C2 Authoritation information exchanges acro	arding cost/schedule/performance tradeoffs.  AMNVR program to include the risk of vendor selected racal reviews and recommend program performance improve de a technical assessment of full and open competition probletated acquisition policy, in accordance with DoD Series 500 or major acquisition program milestone reviews, to include licy associated with acquisition program oversight. Provide nance tradeoffs.  Whand dismounted communications capability with radio a software code. Form industry engagement to promote a cimplementation of iEMSO strategy in radio and EW device being and technology roadmap to synchronize transition of kems. FY17 work will focus will focus on selected sensor and a systems. So capability improvements in Multi-function Information unications, Navigation & Identification (CNI) terminal in F-35 and Tactical Data Networking and develop detailed roadman or MADL 2.0 version and applicability to next generation airculated with adversary threat emitters to improve investments assess the results of the Highband Networking Waveform of the HNW 3.0 entry into the Waveform Repository. Provided implementation assessment. Provide technical reviews and include platform integration issues, Network Operations of all Relay Tower, and Range Throughput Extension Kit. In and test activities across the Services, Agencies and int C2 Sustainment and Modernization Plan.  Sible, accessible, understandable, trustable and interoperation National Information Exchange Model (NIEM)-based	dios ment cess 00  e ey d i, and ps craft e a nd Tools		

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of t	he Secretary Of Defense	Date: N	1ay 2017	
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604771D8Z I Joint Tactical Information Distribution System (JTIDS)	Project (Number/N 771 / Link-16 Taction Transformation	,	(TDL)
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018
- Joint C2 Architecture: Provide technical expertise for the update development activities across the Services, Agencies and Combination - Friendly Force Tracking/ Combat Identification: Provide technical Mode 5 IFF IOC and FOC. Provide technical support to DoD impand assignment.  - Acquisition Management: Provide technical assistance in development of the provide technical assistance in the provide technical assistance in development of the provide technical assistance in development of the provide technical assistance in the provide technical assistance in development of the provide technical assistance in de	atant Commands. all assessment, assistance and recommendations for achievic plementation of Mode 5 including supporting spectrum certification policy, including updates to DoD Sement direction. In the direction of Mode 5 including updates to DoD Sement direction. In the direction of Modernical Oversight/AFSCN Modernication (and the work) provide technical Oversight/AFSCN Modernication (and the work) of cyber testing and cyber vulnerabilities of critical space of the documents, control plans, remote management control polyporal polyporal plans, remote management control polyporal polyporal plans, remote management control polyporal polyporal polyporal technical reviews on to include data strategies, system decisions for programs including weather satellite follow-on ship role. Develop and implement Annual GPS Enterprise to progress to next phase of the acquisition process. Ensure DAE. Conduct deep dive technical analyses to understance and that are part of the GPS Enterprise. Review PNT programs that are part of the GPS Enterprise. Review PNT programs upport of milestone decisions. Initiate and conduct studies are field.	cation eries  n orts and ms  re d all ns to		
	Accomplishments/Planned Programs Subt	totals 9.849	11.793	11.2

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

N/A

Remarks

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary 0	Of Defense		Date: May 2017
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
0400 / 5	PE 0604771D8Z I Joint Tactical Information	771 I Link-	16 Tactical Data Link (TDL)
	Distribution System (JTIDS)	Transforma	ation

### **D. Acquisition Strategy**

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

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

#### **E. 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 Joint Information Environment (JIE)

Portfolio Management: Provide for the timely and effective delivery of key Net-Centric capabilities through portfolio management of associated technology development and Major Defense Acquisition Programs (MDAPS) and Major Automated Information Systems (MAIS).

Measures:

- Key milestones completed for major net-centric acquisitions
- Number of major systems successfully completing net-centric critical performance reviews

Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Office of the Secretary 0	Of Defense	Date: May 2017
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
0400 / 5	PE 0604771D8Z I Joint Tactical Information	771 I Link-16 Tactical Data Link (TDL)
	Distribution System (JTIDS)	Transformation

Contract Method Performing													
Cost Category Item & Type Activity & Locati	Prior on Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
ink-16 Tactical Data Link (C/TBD) OUSD(AT&L)/ OASD(A)/ DASD(C3CB) : Pentagon	71.605	9.849		11.793		11.258		-		11.258	-	-	-
Subto	<b>tal</b> 71.605	9.849		11.793		11.258		-		11.258	-	-	-

	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	Cost To	Total Cost	Target Value of Contract
Project C	st Totals 71.605	9.849	11.793	11.258	-	11.258	-	-	-

#### Remarks

Resources 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 affect 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.

<b>Exhibit R-4</b> , <b>RDT&amp;E Schedule Profile:</b> FY 2018 Office of the Secretary Of Defer						efens	fense								<b>Date:</b> May 2017											
Appropriation/Budget Activity 0400 / 5				PE	R-1 Program Element (Number/Name) PE 0604771D8Z I Joint Tactical Information Distribution System (JTIDS)							Project (Number/Name) 771 I Link-16 Tactical Data Link (TDL Transformation						.)								
	FY 2016 FY 20					2017 FY 2018 FY 2019					019		FY 2020 FY 202				202 <sup>-</sup>	21 FY 2022								
	1	2	3	4	1	2	3 4	l 1	2	3	4	1	2	3	4	1	2 3	4	1	2	3	4	1	2	3	4
Link-16 Comm Tactical Data Link (TDL) Transformation						·										,										
Contract Awards																										

Exhibit R-4A, RDT&E Schedule Details: FY 2018 Office of the Secretary Of D	efense		Date: May 2017
· · · ·	R-1 Program Element (Number/Name) PE 0604771D8Z / Joint Tactical Information	, ,	umber/Name)
	Distribution System (JTIDS)	Transforma	` ,

## Schedule Details

	St	art	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Link-16 Comm Tactical Data Link (TDL) Transformation				
Contract Awards	2	2016	4	2021

Exhibit R-2A, RDT&E Project Ju	stification:	FY 2018 C	Office of the	Secretary (	Of Defense			Date: May 2017				
Appropriation/Budget Activity 0400 / 5		PE 060477	am Elemen 71D8Z / Joir n System (J	nt Tactical Ir	Number/Name) per Capability & Platform Resilience							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
105: Cyber Capability & Platform Resilience	0.000	3.925	4.495	4.100	-	4.100	4.000	4.000	4.100	4.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

### A. Mission Description and Budget Item Justification

Provides resources for developmental acquisition support and management (to include the Cyber Investment and Management Board (CIMB)) oversight of Cyber capabilities as the Department conceives, develops, and rapidly fields cyber capabilities for Cyberspace Operations and the instantiation of cyber resilient platforms and weapons systems for priority kinetic and non-kinetic missions. The CIMB was established in 2012 in response to the FY2011 NDAA Section 933, where DoD was directed to provide a "strategy for the rapid acquisition of cyber capabilities, for cyber warfare for USCC and the Cyber Service components of the military departments. USD(AT&L) is responsible for compliance with the FY2011 NDAA and Chairs the CIMB.

Funds provide technical, systems engineering, trend analysis, and oversight of programs, projects and activities developing cyber capabilities to maximize the Department's return on investment of cyberspace resources and effect a comprehensive approach for assessing, procuring, and sustaining critical cyber capabilities and cyber resilient systems and platforms from initial design, through development to capability delivery in support of weapons systems performance and military operations. Additionally, these funds will provide systems analyses, portfolio management, executive support of CIMB, enterprise wide systems engineering and operational impact analyses related to Cyber capabilities and ensuring cyber resilience within systems and platforms. Resources will also be used to provide expertise required for exercising technical direction over design, performance, cost parameters, determining and mitigating cyber risks of key systems and their dependencies. The goal of this funding is to assure capability advantage, reduce time to the field, evaluate projects and concepts, minimize cyber related performance and operational risk of developing and fielding complex systems, ensure program dependencies are documented and included in acquisition decisions and address cyber security requirements, gaps and required technical solutions.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018
Title: Cyber Capability and Platform Resilience	3.925	4.495	4.100
<b>Description:</b> Provides resources for developmental acquisition support and management (to include the Cyber Investment and Management Board (CIMB)) oversight of Cyber capabilities as the Department conceives, develops, and rapidly fields cyber capabilities for Cyberspace Operations and the instantiation of cyber resilient platforms and weapons systems for priority kinetic and non-kinetic missions. The CIMB was established in 2012 in response to the FY2011 NDAA Section 933, where DoD was directed to provide a "strategy for the rapid acquisition of cyber capabilities, for cyber warfare for USCC and the Cyber Service components of the military departments. USD(AT&L) is responsible for compliance with the FY2011 NDAA and Chairs the CIMB. Funds provide technical, systems engineering, trend analysis, and oversight of programs, projects and activities developing cyber capabilities to maximize the Department's return on investment of cyberspace resources and effect a comprehensive approach for assessing, procuring, and sustaining critical cyber capabilities and cyber resilient systems and platforms from initial design, through development to capability delivery in support of weapons systems performance and military			

	UNCLASSIFIED			
Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of	the Secretary Of Defense	Date:	May 2017	
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604771D8Z I Joint Tactical Information Distribution System (JTIDS)	Project (Number 105 / Cyber Capa		m Resiliend
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018
operations. Additionally, these funds will provide systems analy wide systems engineering and operational impact analyses relative systems and platforms. Resources will also be used to provide performance, cost parameters, determining and mitigating cyber this funding is to assure capability advantage, reduce time to the performance and operational risk of developing and fielding command included in acquisition decisions and address cyber security.	tted to Cyber capabilities and ensuring cyber resilience within expertise required for exercising technical direction over design risks of key systems and their dependencies. The goal of the field, evaluate projects and concepts, minimize cyber related in the projects are documented in the concepts are docume	gn,		
FY 2016 Accomplishments:  - Cyber Investment Management: Synchronized and coordinate assessments, and ensure cyberspace investments align with Dethreats. Provided support of the Cyber Investment Management direction. Continued to plan and conduct CIMB/CCT meetings to cyber issues the DoD will face in the future.  - Refined the Cyber investment portfolio results, ensuring return focusing on process improvement is included.  - Conducted investment analysis of the DoD-wide Cyber Special and risk analysis.  - Utilized the results of the Cyber Rapid Acquisition Process Pilot DoD, ensuring DoD Acquisition Policy is updated to reflect procedure and Cyber security Guidebook for Program Managers. Coregarding Cyber security within the Acquisition process.  - Continued oversight of implementation of the Cyber Situational Initiated capability development of recommendations of the Uncontinued oversight of Joint Cyber Command and Control (C2). Ensured Platform Resilience/Mission Assurance (PR/MA); Overwhold to synchronize and provide oversight for DoD Cyber through the Cyber Range Focal Point.  - Implemented DoD Cyber Range strategy, working with T&E and Conducted technical analysis to determine tools necessary to suitability in a Cyber Range Environment.	epartment priorities, required capabilities and evolving cyber to Board and develop implementation guidance and associated to refine the cyber investment portfolio and to identify strateging on investment and risk ultimately leading to an optimization part Access Program (SAP) portfolio to include return on investments to implement the new rapid cyber acquisition processes accesses. Contribute to any follow on efforts to revise policy or guidance all Awareness EoA (phase I and II) recommendations.  All Awareness EoA (phase I and II) recommendations on Cyber capability development.  Bersaw implementation of the recommendations on Cyber reactical communications systems.  Bersaw implementation of the recommendations on Cyber reactical communications systems.  Bersaw implementation of the recommendations on Cyber reactical communications systems.  Bersaw implementation of the recommendations on Cyber reactical communications systems.	c phase nent cross		

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the	e Secretary Of Defense	Date: I	May 2017	
Appropriation/Budget Activity 0400 / 5		<b>Project (Number/</b> 105 / Cyber Capal		m Resilienc
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018
<ul> <li>Oversaw DoD efforts to equip the cyber mission force. Support de required in collaboration with USCYBERCOM.</li> </ul>	evelopments of requirements documents and architectures	as		
Cyber Investment Management: Synchronize and coordinate cyber and ensure cyberspace investments align with Department priorities support of the Cyber Investment Management Board and develop it to plan and conduct CIMB/CCT meetings to refine the cyber investrace in the future.  Refine the Cyber investment portfolio results, ensuring return on it focusing on process improvement is included.  Conduct investment analysis of the DoD-wide Cyber Special Accerisk analysis.  Utilize the results of the Cyber Rapid Acquisition Process Pilots to DoD, ensuring DoD Acquisition Policy is updated to reflect processe.  Manage Cyber security Guidebook for Program Managers. Contril regarding Cyber security within the Acquisition process.  Continue oversight of implementation of the Cyber Situational Awa-Initiate capability development of recommendations of the Unified Continue oversight of Joint Cyber Command and Control (C2) cape. Ensure Platform Resilience/Mission Assurance (PR/MA); Oversee vulnerabilities of Department of Defense weapon systems and tactic Continue to synchronize and provide oversight for DoD Cyber Rarthrough the Cyber Range Focal Point.  Implement DoD Cyber Range strategy, working with T&E and DO-Conduct technical analysis to determine tools necessary to help of in a Cyber Range Environment.  Oversee DoD efforts to equip the cyber mission force. Support derequired in collaboration with USCYBERCOM.  FY 2018 Plans:  Cyber Investment Management: Synchronize and coordinate cyber and ensure cyberspace investments align with Department priorities support of the Cyber Investment Management Board and develop in	s, required capabilities and evolving cyber threats. Provide implementation guidance and associated direction. Continument portfolio and to identify strategic cyber issues the Dolonvestment and risk ultimately leading to an optimization phases Program (SAP) portfolio to include return on investment of implement the new rapid cyber acquisition processes across. But to any follow on efforts to revise policy or guidance areness EoA (phase II) recommendations.  Platform AoA.  Diability development.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.  Desimplementation of the recommendations on Cyber cal communications systems.	ue D will ase t and oss s ability as ents,		

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary Of Defense			<b>Date</b> : May 2017		
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0604771D8Z I Joint Tactical Information Distribution System (JTIDS)	_	Project (Number/Name) 105 / Cyber Capability & Platform Resilience		
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2016	FY 2017	FY 2018
to plan and conduct CIMB/CCT meetings to refine the cyber investment face in the future.  Refine the Cyber investment portfolio results, ensuring return on investing on process improvement is included.  Conduct investment analysis of the DoD-wide Cyber Special Access risk analysis.  Utilize the results of the Cyber Rapid Acquisition Process Pilots to in DoD, ensuring DoD Acquisition Policy is updated to reflect processes.  Manage Cyber security Guidebook for Program Managers. Contributegarding Cyber security within the Acquisition process.  Continue oversight of implementation of the Cyber Situational Award Initiate capability development of recommendations of the Unified P. Continue oversight of Joint Cyber Command and Control (C2) capa. Ensure Platform Resilience/Mission Assurance (PR/MA); Oversee in vulnerabilities of Department of Defense weapon systems and tactical Continue to synchronize and provide oversight for DoD Cyber Range through the Cyber Range Focal Point.  Implement DoD Cyber Range strategy, working with T&E and DOT&Conduct technical analysis to determine tools necessary to help colininal Cyber Range Environment.  Oversee DoD efforts to equip the cyber mission force. Support deverged in collaboration with USCYBERCOM.	restment and risk ultimately leading to an optimization possible program (SAP) portfolio to include return on investme implement the new rapid cyber acquisition processes activate to any follow on efforts to revise policy or guidance eness EoA (phase II) recommendations. latform AoA. bility development. implementation of the recommendations on Cyber all communications systems. less that support Cyber Training and Testing & Evaluation & Each JS. lect, measure, assess DCO/OCO effectiveness and suit	nt and ross			
	Accomplishments/Planned Programs Sub	totals	3.925	4.495	4.100

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

N/A

### Remarks

# D. Acquisition Strategy

Existing firm fixed priced and cost plus contracts will be utilized.

Exhibit R-2A, RDT&E Project Justification: FY 2018 Office of the Secretary 0	Date: May 2017		
, , ,	R-1 Program Element (Number/Name) PE 0604771D8Z I Joint Tactical Information Distribution System (JTIDS)	- , (	umber/Name) er Capability & Platform Resilience

#### E. Performance Metrics

Enterprise-Wide Cyber Investments: instantiation of cyber capabilities for resilient systems include risk assessments, vulnerability assessments, mitigation plans, prototype architectures, investment strategies, trends analyses, Evaluation/Analysis of Alternatives, integrated mission analyses, technical and policy guidance directives.

#### Measures:

- Timely development and issuance of policy and guidance
- Timely delivery and development of key investment strategies, trend analysis and outcomes of the Evaluation/Analysis of Alternatives.

Portfolio Management: Provide for the timely and effective delivery of portfolio management support of associated with Cyber Security and Major Defense Acquisition Programs (MDAPS) and Major Automated Information Systems (MAIS).

#### Measures:

- Key milestones completed for major cyber related acquisitions