Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Office of Secretary Of Defense											Date: March 2014	

Appropriation/Budget Activity	R-1 Program Element (Number/Name)
0400: Research, Development, Test & Evaluation, Defense-Wide I BA 6: RDT&E Management Support	PE 0605170D8Z I Support to Networks and Information Integration

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	8.033	5.632	6.277	27.901	-	27.901	5.243	5.350	5.543	5.879	Continuing	Continuing
002: Defense Architecture Repository	1.215	0.856	1.083	0.948	-	0.948	0.922	0.940	0.974	1.033	Continuing	Continuing
003: Integrated Planning and Management	1.933	1.638	1.781	24.027	-	24.027	1.481	1.510	1.567	1.662	Continuing	Continuing
004: PNT Navigation	4.885	3.138	3.413	2.926	-	2.926	2.840	2.900	3.002	3.184	Continuing	Continuing

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

A. Mission Description and Budget Item Justification

This program element supports studies and analysis in the areas of networks, information integration, defense-wide command and control (C2), and communications. This program is funded under Budget Activity 6, RDT&E Management Support because it includes studies and analysis in support of RDT&E efforts.

B. Program Change Summary ($ in Millions)

	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	6.307	6.301	6.148	-	6.148
Current President's Budget	5.632	6.277	27.901	-	27.901
Total Adjustments	-0.675	-0.024	21.753	-	21.753
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Sequestration Reduction	-0.513	-	-	-	-
• SBIR/STTR Reduction	-0.160	-	-	-	-
• Program Adjustment	-0.002	-	-	-	-
• FFRDC Reduction	-	-0.024	-	-	-
• Efficiency Reduction	-	-	-0.747	-	-0.747
• Department Increase	-	-	22.500	-	22.500

Change Summary Explanation

FY 2013: Sequestration Reduction -0.513 million, SBIR/STTR Reduction -0.160 million, Program Adjustment -0.002 million.

Exhibit R-2, **RDT&E Budget Item Justification:** PB 2015 Office of Secretary Of Defense		**Date:** March 2014
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0605170D8Z *I Support to Networks and Information Integration*	

FY 2014: FFRDC Reduction -0.024 million.
FY 2015: Efficiency Reduction -0.747 million, Department increase classified program 22.500 million, this department increase is one piece of the Department increase other associated funding can be found under PE 0605170D8Z BA 4 12.5 million and PE0305199D8Z BA 7, 5 million.

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Office of Secretary Of Defense										**Date:** March 2014	
Appropriation/Budget Activity 0400 *I* 6				**R-1 Program Element (Number/Name)** PE 0605170D8Z *I Support to Networks and Information Integration*				**Project (Number/Name)** 002 *I Defense Architecture Repository*			

COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO** #	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
002: *Defense Architecture Repository*	1.215	0.856	1.083	0.948	-	0.948	0.922	0.940	0.974	1.033	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

DARS is the Department's enterprise registry, catalog and navigation map for enterprise architecture. It serves as the Department's primary catalog of architecture data holdings and provides users the ability to register holdings metadata and search, retrieve, and use DoD architecture data in federated architecture data repositories across DoD. DARS provides a key component of the Department's net-centric data management capability by federating enterprise architecture data across the Department. It enables alignment of program architecture components with the Federal Enterprise Architecture Business Reference Model - consistent with OMB directives for exhibit 300s - via the DoD Business Reference Model. DARS implements a federated search capability and metadata catalog that will interoperate with the Department's Net-Centric Enterprise Discovery Service and enterprise content metadata catalog. Architecture metadata is searchable using the DARS federated discovery web service. The discovery search results provide links to architecture data that is retrievable based on user roles and access permissions. Implementations are accessible on both the NIPRNET (unclassified) and SIPRNET (Collateral Classified). Key features of the DARS program focus on: (1) Making architecture data visible, accessible, trusted, understandable, and interoperable (2) enabling reuse of validated architecture data to build "composite" integrated architectures; (3) enabling architecture analysis; and, (4) integrating architecture data into the DoD mainstream decision-making processes. The Department of the Air Force, Army, and Navy CIO's are collaborating in the development of DARS federation web services via the Federated Joint Architecture Working Group under the auspices of the DoD Enterprise Architecture Summit to ensure DoD-wide access to and usability of all components of the composite DoD enterprise architecture model.

B. Accomplishments/Planned Programs ($ in Millions)	**FY 2013**	**FY 2014**	**FY 2015**
Title: DARS Accomplishments and Plans	0.856	1.083	0.948
FY 2013 Accomplishments: Completed the development and published DARS Requirements Document - Continued to provide policy and guidance for the reengineering of DARS by integrating it with the Enterprise Discovery Service to provide all search, discovery, and understandability of shared architectures - Continued enterprise-level operational support for the DoD Architecture Registry System. - Continued to work with DoD Component to refine requirements and processes to effectively expose existing architectures for reuse. - Continued to expand and refine DARS to accommodate registration /federation requirements. - Integration of DARS data services into the "Core Enterprise Services". *FY 2014 Plans:*			

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Office of Secretary Of Defense		**Date:** March 2014
Appropriation/Budget Activity 0400 *I* 6	**R-1 Program Element (Number/Name)** PE 0605170D8Z *I Support to Networks and Information Integration*	**Project (Number/Name)** 002 *I Defense Architecture Repository*

B. Accomplishments/Planned Programs ($ in Millions)	**FY 2013**	**FY 2014**	**FY 2015**
Expand and refine DARS to accommodate Registration /Federation requirements across the entire DoD. - Integration of DARS data services into the "Core Enterprise Services". - Support to Operational Command Agency servicing DARS. - Develop and publish common taxonomy in support of JIE Architectures Labeling and Versioning. - Transition the operation, service, and maintenance of DARS to a Military Service for continuing operations and consolidation *FY 2015 Plans:* Provide policy and technical guidance for the development of DARS Web Service for automated AV-1 registration and support for Segment reporting - Develop and deliver DARS Scorecard management capability for DoD Architectures			
Accomplishments/Planned Programs Subtotals	0.856	1.083	0.948

C. Other Program Funding Summary ($ in Millions)
 N/A
Remarks

D. Acquisition Strategy
 N/A

E. Performance Metrics
 DARS Performance Metrics:
 - Timely development and issuance of policy, guidance, processes, and technologies to build, populate, govern, operate, and protect the Network.
 - Policies developed and issued for GIG design, architecture content management, implementation, and operations.

Exhibit R-2A, RDT&E Project Justification: PB 2015 Office of Secretary Of Defense											Date: March 2014	
Appropriation/Budget Activity 0400 *I* 6				**R-1 Program Element (Number/Name)** PE 0605170D8Z *I Support to Networks and Information Integration*					**Project (Number/Name)** 003 *I Integrated Planning and Management*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO** #	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
003: *Integrated Planning and Management*	1.933	1.638	1.781	24.027	-	24.027	1.481	1.510	1.567	1.662	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

The Integrated Planning and Management Project encompasses the National Leadership Command Capability (NLCC) Management Office's (NMO) responsibilities for establishing overall DoD policy and oversight with respect to the capability development, interoperability, standards, and architecture for National and Nuclear Command Capabilities for our National Leadership. The NMO serves as the single point of contact within the Department for policy, long-range plans, programs and budget, integrated mission advocacy, and management of decision-maker capabilities. NMO's objective is to ensure capabilities are in place to provide complete and timely situational awareness and decision tools for senior decision-makers. Additionally, the NMO assists the DoD CIO as the Executive Agent and primary OSD advocate for the White House Military Office with oversight of a wide range of DoD command and control and communications (C3) assets and oversees the efforts of the Services and Agencies in the design, integration, and deployment of critical and sensitive C3 capabilities. Three overall areas of focus include: 1) National Senior Leader C3 Systems, Emergency Preparedness, DoD support to Civil Authorities; Continuity of Government (COG); 2) Nuclear C2, Integrated Missile Defense, Tactical Warning, Global Strike; and 3) Cyber Mission Indications and Warnings.

B. Accomplishments/Planned Programs ($ in Millions)

	FY 2013	FY 2014	FY 2015
Title: Integrated Planning and Management	1.638	1.781	24.027

FY 2013 Accomplishments:
Continued Architecture, Testing Analysis and Systems Engineering support for more robust and capable leadership command information services and applications. Investigated concepts and initiated limited prototyping efforts for testing and developing robust, secure, mobile C3 and computing devices and services for senior leadership, for use across various scenarios and security environments.
Specific activities for FY13 included:
- Continued Phantom Signal testing exercises in order to improve National and Nuclear voice conferencing and decision making.
- Provided oversight on Senior Leader Secure Communications Modernization efforts across the Presidential and Tier I/II Senior Leader support organizations.
- Continued to conduct legacy system root cause analysis in order to mitigate communication shortfalls in senior leader environments as well as the independent verification and validation of modernization approaches and solution sets within the NLCC SeCAN Testbed environment.
- Continued to provide oversight and engineering and integration support to the NSA Fishbowl project in order to deliver secure commercial mobile devices and solutions for senior leadership.

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Office of Secretary Of Defense		**Date:** March 2014
Appropriation/Budget Activity 0400 *I* 6	**R-1 Program Element (Number/Name)** PE 0605170D8Z *I Support to Networks and Information Integration*	**Project (Number/Name)** 003 *I Integrated Planning and Management*

B. Accomplishments/Planned Programs ($ in Millions)	**FY 2013**	**FY 2014**	**FY 2015**
- Continued to investigate and provide oversight on the implementation of senior leader wideband airborne communications. - Continued to work with and provided oversight to the Navy and other organizations on Maritime Information Systems advisory and modernization. - Further build-out the Defense Red Switch Network Reduction IPT and provided roadmaps for transitioning to IP-based technologies; worked with NLCC community in modernizing the NLCC architecture and developing modernization approaches to ensure no loss of capabilities. *FY 2014 Plans:* Continue Architecture, Testing Analysis and Systems Engineering to ensure command information services and applications are validated and provide assured communications in support of senior leadership. - Continue to investigate concepts and initiate limited prototyping efforts for testing and developing robust, secure, mobile C3 and computing devices and services for senior leadership, for use across various scenarios and security environments. - Continue to carry-out Phantom Signal testing and validation activities as well as provide oversight and adjustments on the Senior Leader Secure Communications Modernization Implementation Strategy. - Funding plans include support to maintaining a flexible and dynamic testbed environment for senior leader solutions and infrastructure advancement validation. Other plans include finalizing NLCC modernization approaches and architectures (and implementations, where appropriate) for IP-based end-to-end solutions. *FY 2015 Plans:* $22.500 Maritime Capabilities- Classified program details provided at a higher classification under separate cover. This is one piece of this classified program additional funding can be found under PE 0605170D8Z BA 4, 12.5 million and PE 0305199D8Z, 5 million. $1.527 million: Continue to enhance Architecture, Testing Analysis and Systems Engineering to enable leadership command information services (LCIS) and applications are validated to provide assured communications in support of senior leadership. - Continue to instantiate the efforts for fielding robust, secure, mobile (smart phone and tablet) devices and services for senior leadership, for use initially in the National Capital Region. - Enhance the scope of Phantom Signal testing and validation activities as well as provide oversight on the Senior Leader Secure Communications Modernization Implementation Strategy. - Funding plans include support of a flexible and dynamic testbed (SeCAN) environment for senior leader solutions and infrastructure advancement validation. Future plans include NLCC modernization approaches and architectures (and implementations, where appropriate) for IP-based NC3.			
Accomplishments/Planned Programs Subtotals	1.638	1.781	24.027

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Office of Secretary Of Defense		**Date:** March 2014
Appropriation/Budget Activity 0400 *I* 6	**R-1 Program Element (Number/Name)** PE 0605170D8Z *I Support to Networks and Information Integration*	**Project (Number/Name)** 003 *I Integrated Planning and Management*

C. Other Program Funding Summary ($ in Millions)

 N/A

Remarks

D. Acquisition Strategy

 N/A

E. Performance Metrics

 Integrated Planning & Management Performance Metrics:
 - Continue development of the required infrastructure to support Senior Leader Secure Mobile Communications.
 - Continue development of the overarching planning for the NLCC Initial Capabilities Document.
 - Continue policy development (DoDI) for the management of DoD Nuclear Command, Control, and Communications.

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Office of Secretary Of Defense	**Date:** March 2014

Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0605170D8Z / *Support to Networks and Information Integration*	**Project (Number/Name)** 004 / *PNT Navigation*

COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
004: *PNT Navigation*	4.885	3.138	3.413	2.926	-	2.926	2.840	2.900	3.002	3.184	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

Funding supports Global Positioning System (GPS) User Equipment Synchronization with GPS space and operational control segments to conduct DoD CIO oversight of Global Positioning System (GPS) management and planning activities required for meeting JCIDs requirements. Funding also supports the DoD's inputs into interagency activities under the National Space-Based Positioning, Navigation, and Timing Executive Committee.

B. Accomplishments/Planned Programs ($ in Millions)

	FY 2013	**FY 2014**	**FY 2015**
Title: PNT Navigation	3.138	3.413	2.926

FY 2013 Accomplishments:
Global Positioning System (GPS) User Equipment Synchronization with GPS space and operational control segments to conduct DoD CIO oversight of Global Positioning System (GPS) management and planning activities required for meeting JCIDs requirements. Funding also supports the DoD's inputs into interagency activities under the National Space-Based Positioning, Navigation, and Timing Executive Committee. Funding supported:
- Implemented and managed the International Supplement to GPS Security Policy
- Implemented and managed the Information Assurance/COMSEC Supplement to GPS Security Policy
- Implemented and managed the GPS Security Policy
- Implemented the GPS Protection Profile matrix from Navigation Warfare Concept of Operations in conjunction with Warfighting Operations Plans (OPLANS) and Contingency Plans (CONPLANS) in coordination with US STRATCOM
- Implemented and managed PNT Navigation Warfare Annexes to DoDD 4650.05 and all the Operations Plans (OPLANS) and Contingency Plans (CONPLANS) in coordination with US STRATCOM
- Continued developing NextGen interfaces with the GPS Wing, Joint Program Development Office (JPDO), and Air Force. Continued implementation of Red Key Sundown Policy
- Conducted studies and programmatic analysis of activities involving OCX, MGUE, and GPS III contract activities
- Provided staff support, performed research and conducted studies as directed by DEPSECDEF in his role as co-chair of the National Executive Committee for Space-Based PNT and for DoD CIO in her role as co-chair of the Executive Steering Group
- Performed annual update of National Five-year Plan for Space-Based Positioning, Navigation and Timing (PNT)
- Began drafting the 2014 Federal Radionavigation Plan (FRP)
- Applied Navigation Warfare Concept of Operations (contained in DODI 4650.dd undergoing SD-106 approval process) via the Joint Navigation Warfare Center (JNWC) and US STRATCOM to develop Doctrine, Tactics, Techniques and Procedures,

Exhibit R-2A, RDT&E Project Justification: PB 2015 Office of Secretary Of Defense		Date: March 2014
Appropriation/Budget Activity 0400 I 6	R-1 Program Element (Number/Name) PE 0605170D8Z I *Support to Networks and Information Integration*	Project (Number/Name) 004 I *PNT Navigation*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2013	FY 2014	FY 2015
Training, Equipment Validation and Material Solutions to Navigation Warfare challenges to the Military Services and Combatant Commanders in the scenarios defined in the CONPLANS and OPLANS. - Drafted DODI 4650.xx for user equipment certification in DoD ***FY 2014 Plans:*** Global Positioning System (GPS) User Equipment Synchronization with GPS space and control segments to conduct DoD CIO oversight of Global Positioning System (GPS) management and planning activities required for meeting JCIDs requirements and supporting the National Space-Based Positioning, Navigation and Timing Executive Committee. Funding will support: - Manage the International Supplement to GPS Security Policy - Manage the Information Assurance/COMSEC Supplement to GPS Security Policy - Manage the GPS Security Policy - Continue implementation of the GPS Protection Profile matrix from Navigation Warfare Concept of Operations in conjunction with Warfighting Operations Plans (OPLANS) and Contingency Plans (CONPLANS) in coordination with US STRATCOM - Manage PNT Navigation Warfare Instruction and Annexes to all the Operations Plans (OPLANS) and Contingency Plans (CONPLANS) in coordination with US STRATCOM - Continue developing NextGen interfaces with the GPS Wing, Joint Program Development Office (JPDO), and Air Force. Continue implementation of Red Key Sundown Policy - Provide staff support, perform research and conduct studies as directed by DEPSECDEF in his role as co-chair of the National Executive Committee for Space-Based PNT and for DoD CIO in her role as co-chair of the Executive Steering Group - Perform annual update of National Five-year Plan for Space-Based Positioning, Navigation and Timing (PNT) - Complete drafting of the 2014 Federal Radionavigation Plan (FRP); finalize FRP - Apply Navigation Warfare Concept of Operations via the Joint Navigation Warfare Center (JNWC) and US STRATCOM to develop Doctrine, Tactics, Techniques and Procedures, Training, Equipment Validation and Material Solutions to Navigation Warfare challenges to the Military Services and Combatant Commanders in the scenarios defined in the CONPLANS and OPLANS. - Manage and implement the DoD PNT investment strategy using the NetCentric Operations CPM portfolio to insure PNT material solutions are developed in a synchronized fashion in JCIDs, DAS, and PPBE - Develop additional Instructions for public affairs, receiver certification, and security policy. Develop GPS Security Policy as DoDM and expand scope to include all source PNT - Conduct an inventory of DoD GPS receivers. - Analyze and promote alternative PNT delivery means for inclusion in the force structure for force protection. - Establish PNT Integration Working Group (PING) ***FY 2015 Plans:***			

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Office of Secretary Of Defense		**Date:** March 2014
Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0605170D8Z / *Support to Networks and Information Integration*	**Project (Number/Name)** 004 / *PNT Navigation*

B. Accomplishments/Planned Programs ($ in Millions)	**FY 2013**	**FY 2014**	**FY 2015**
Global Positioning System (GPS) User Equipment Synchronization with GPS space and control segments to conduct DoD CIO oversight of Global Positioning System (GPS) management and planning activities required for meeting JCIDs requirements and supporting the National Space-Based Positioning, Navigation and Timing Executive Committee. Funding will support: - Manage the International Supplement to GPS Security Policy as all source PNT DoDM - Manage the Information Assurance/COMSEC Supplement to GPS Security Policy as all source PNT DoDM - Manage the GPS Security Policy as all source DoDM - Continue implementation of the GPS Protection Profile matrix from Navigation Warfare Concept of Operations in conjunction with Warfighting Operations Plans (OPLANS) and Contingency Plans (CONPLANS) in coordination with US STRATCOM - Manage PNT Navigation Warfare Instruction and Annexes to all the Operations Plans (OPLANS) and Contingency Plans (CONPLANS) in coordination with US STRATCOM - Manage NextGen interfaces with the GPS Wing, Joint Program Development Office (JPDO), and Air Force. Continue implementation of Red Key Sundown Policy - Provide staff support, perform research and conduct studies as directed by DEPSECDEF in his role as co-chair of the National Executive Committee for Space-Based PNT and for DoD CIO in her role as co-chair of the Executive Steering Group - Perform annual update of National Five-year Plan for Space-Based Positioning, Navigation and Timing (PNT) - Begin drafting FY16 FRP - Apply Navigation Warfare Concept of Operations via the Joint Navigation Warfare Center (JNWC) and US STRATCOM to develop Doctrine, Tactics, Techniques and Procedures, Training, Equipment Validation and Material Solutions to Navigation Warfare challenges to the Military Services and Combatant Commanders in the scenarios defined in the CONPLANS and OPLANS. - Manage and implement the DoD PNT investment strategy using the NetCentric Operations CPM portfolio to insure PNT material solutions are developed in a synchronized fashion in JCIDs, DAS, and PPBE - Implement additional Instructions (DoDIs) for public affairs and receiver certification, and DoDM for security policy. - Manage inventory of DoD GPS receivers. - Analyze and promote alternative PNT delivery means for inclusion in the force structure for force protection via PING			
Accomplishments/Planned Programs Subtotals	3.138	3.413	2.926

C. Other Program Funding Summary ($ in Millions)

 N/A

Remarks

D. Acquisition Strategy

 N/A

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Office of Secretary Of Defense		**Date:** March 2014
Appropriation/Budget Activity 0400 *I* 6	**R-1 Program Element (Number/Name)** PE 0605170D8Z *I Support to Networks and Information Integration*	**Project (Number/Name)** 004 *I PNT Navigation*

E. Performance Metrics

Implement and successfully manage PNT Navigation Warfare Instructions and Manuals subordinate to DoDD 4650.05 and Annexes to applicable Operations Plans (OPLANS) and Contingency Plans (CONPLANS) in coordination with the appropriate Unified Combatant Command
- Implement the recommendations of the Analysis of Alternatives for the CIO and DCIO C4IIC Global Positioning System (GPS) portfolio of Position, Navigation, and Timing (PNT) programs and activities
- Provide staff support, perform research and conduct studies as directed by the CIO and DCIO C4IIC relating to the Global Positioning System (GPS) portfolio of Position, Navigation, and Timing (PNT) programs and activities