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Exhibit R-2, RDT&E Budget Item Justification				Date: February 2007				
Appropriation/Budget Activity RDT&E Defense-Wide, BA 6				R-1 Item Nomenclature: Support to Networks and Information Integration PE 0605170D8Z				
Cost (\$ in millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	16.081	16.642	11.152	11.242	11.633	11.745	11.929	12.113
Command Information Superiority Architecture	6.042	5.465	5.576	5.621	5.817	5.873	5.965	6.057
Defense Architecture Repository	1.157	1.242	1.282	1.293	1.338	1.351	1.372	1.393
Integrated Planning and Management	1.881	2.022	2.063	2.080	2.152	2.173	2.207	2.241
Support to NII Mission Requirements	7.001	7.913	2.231	2.248	2.326	2.348	2.385	2.422
<p>A. Mission Description and Budget Item Justification: This program element supports studies 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.</p> <p><u>Program Accomplishments and Plans:</u></p> <p>FY 2006 Accomplishments: (\$7.001 million)</p> <ul style="list-style-type: none"> • Pursued research on new approaches to military and civil-military command and control suitable for 21st Century coalition operations including stability and reconstruction. • Continued to fund the Edge Institute at the Navy Post Graduate School (NPS) and seek to expand this virtual institute to other universities . • Continued development of metrics and conceptual framework suitable for assessing network-centric operations. • Continued to work with the DoD community and international partners to improve the understanding of Information Age command and control related concepts, technologies, and experiments. • Conducted 11th International Command and Control Research and Technology Symposia. • Supported JFCOM in the design and conduct of Multinational Experiment 4 • Conducted workshops to explore command and control related issues. • Continued widely read and respected C2 publications and outreach program. 								

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- Maintained C2 research community website (received over 1,000,000 hits during FY06)

Pacific Disaster Center (PDC)

The PDC leveraged its achievements in agile Information and Communication Technologies (ICT) and enterprise data management practices with its established network of disaster managers—resulting in an effective response to unprecedented natural disasters and the execution of wide spectrum of projects. The devastation caused by the Great Sumatra Earthquake and Indian Ocean tsunami and Hurricane Katrina increased the recognition of the ever-increasing value of ICT at national and regional levels around the globe. These events also showcased the specialized applications developed by the PDC—and their proven civilian-military applications—in developing both “situational awareness” and for communicating in crisis and post-crisis situations.

For example, the Center utilized its unique ICT capability to support a dozen international and domestic Geographic Information Systems (GIS) Map Viewers for emergency managers. This was accomplished with less than half of the effort and resources it took in FY04 to support half as many projects. This achievement was possible due to the PDC’s deployment of a common code-base and “reusable objects,” coupled with the efficient use of its Enterprise Geospatial Database (EGDb) and associated practices.

Specifically, some relevant examples are:

- **National Disaster Warning Center (NDWC), Thailand.** PDC was selected to support the Government of Thailand in the development of an all-hazards NDWC. This effort is supported by the US Trade development Agency. Project activities are continuing and major milestones have been achieved. A *Concept of Operations Report* and an *Information and Communication Technology Gap Analysis* have been completed. In-country multi-agency workshops to solicit feedback from key stakeholders were also conducted to finalize and obtain acceptance of both of these deliverables. In addition, PDC submitted a proposal to the U.S. Trade and Development Agency for augmenting the prototype Decision Support System (currently designed for earthquake and tsunami hazards) to include flooding.
- **Hawaii - Severe Weather and Flooding Events.** PDC provided extended coverage and conducted briefings for the Governor and other State officials in response to torrential rains that caused flash flooding in the Hawaiian Islands. These rains also triggered a dam break on Kauai that resulted in fatalities and significant damage. At the specific request of Hawaii State Civil Defense (HSCD), PDC provided model-based “dam break” maps for reservoirs on Kauai and Oahu. The models were used in response to the Ka Loko Reservoir failure on Kauai (on March 14), and also helped authorities to prioritize monitoring of other dams and plan potential evacuations.
- **Philippines Landslide Disaster:** On February 17, a massive landslide on Leyte Island in the southern Philippines struck the village of Guinsaugon, which is located in the town of St. Bernard. At the request of U.S. Pacific Command’s on-site Search and Rescue teams, PDC provided consultation regarding the survivability of trapped victims, as well as other

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situational awareness products produced by PDC partner organizations in Hawai'i. Also provided satellite imagery and map products to Manila Observatory to support its field-deployed rescue and recovery team.

- **Asia-Pacific Center for Security Studies (APCSS) Curriculum Development.** PDC is providing support in the development of portions of the Security, Stability, Transition, and Reconstruction (SSTR) curriculum APCSS teaches to the students enrolled in it's courses. PDC will also provide faculty for future courses. This effort is in direct response to DODD 3000.05.
- **Pandemic Influenza Exercise.** PDC hosted a "Pandemic Influenza" tabletop exercise organized by Maui Voluntary Organizations Active in Disaster (VOAD). Presented a demonstration of the PDC's Avian Influenza Website. This exercise supports the role that both the State and the US Pacific Command have assigned to PDC in the event of an influenza pandemic. More workshops are planned.
- **Support to USPACOM Exercises and Events.** PDC continues to provide support and products to USPACOM as requested for exercises and events in the PACOM AOR.

FY 2007 Plans: (\$7.913 million)

- Continue to pursue research on new approaches to military and civil-military command and control suitable for 21st Century coalition operations including stability and reconstruction.
- Continue to fund the Edge Institute at the Navy Post Graduate School (NPS) and selected research efforts at other universities .
- Continue, in collaboration with allies and NATO partners, the development and testing of metrics and a conceptual framework suitable for assessing network-centric coalition operations.
- Support JFCOM and other DoD organizations in the design and conduct of Multinational Experiment 5
- Continue to work with the DoD community and international partners to improve the understanding of Information Age command and control related concepts, technologies, and experiments.
- Conduct annual Command and Control Research and Technology Symposia.
- Conduct workshops to explore command and control related issues.
- Continue to develop manuscripts for widely read and respected C2 publications and outreach program.
- Maintain and expand C2 research community website
- Begin campaign of experimentation related to information sharing, collaboration, and trust.

The **Pacific Disaster Center (PDC)** plans to continue to expand its expertise and influence in Information and Communication

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Technologies (ICT) and enterprise data management practices throughout the Asia-Pacific Region during FY2007. Some specific highlights for 2007 are:

- **Disaster Data Inventory:** A new web-based inventory released by the PDC will help emergency managers to catalogue and share disaster-related data in South-East Asia. ASEAN countries have been working together on the project over the past two years. It will be made available to the Association of Southeast Asian Nations' Committee on Disaster Management. The PDC and the ASEAN Secretariat will work now to train emergency managers in the high risk area on mitigation and preparedness techniques.
- **National Disaster Warning Center, Thailand:** Major milestones achieved are: A Concept of Operations Report and an Information and Communication Technology Gap Analysis; In-country multi-agency workshops to solicit feedback from key stakeholders were conducted to finalize and obtain acceptance of both of these deliverables; and PDC submitted a proposal to the U.S. Trade and Development Agency for augmenting the prototype Decision Support System (currently designed for earthquake and tsunami hazards) to include flooding.
- **Earthquakes and Megacities Initiative:** Intensive fieldwork was conducted in Metro Manila including four “Metro Manila Internet Map Viewer” training sessions hosted at the National Defense College of the Philippines. Over 100 local and national government officials received training on this newly-developed risk communications tool. These methods will be expanded to include other SE Asia nations.
- **New PDC Website:** A new version of the PDC public website was released. Enhanced functionality includes the addition of “MyPDC”—which allows users to customize the look-and-feel of the website’s home page—and a reorganized navigation scheme. There were nearly 200 new registered users of the new website by the end of this quarter. The goal for FY2007 will be further enhance the site and gain increased value to the emergency management community.
- **Hawai‘i County Remote Information Systems:** PDC submitted a final draft of the Hawai‘i County Remote Information Service Implementation Plan to the County. The Implementation Plan details strategies and recommendations for internalizing the web-based Hawai‘i County Remote Information Service within the County itself. PDC will continue to work with counties in the State to improve the information availability and usefulness to all users.

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FY 2008 Plans (\$2.231 million)

- Continue to pursue research on new approaches to military and civil-military command and control suitable for 21st Century coalition operations including stability and reconstruction.
- Continue to fund the Edge Institute at the Navy Post Graduate School (NPS) and selected research efforts at other universities.
- Continue, in collaboration with allies and NATO partners, the development and testing of metrics and a conceptual framework suitable for assessing network-centric coalition operations.
- Support JFCOM and other DoD organizations in the design and conduct of experiments
- Continue to work with the DoD community and international partners to improve the understanding of Information Age command and control related concepts, technologies, and experiments.
- Conduct 12th International Command and Control Research and Technology Symposia.
- Conduct workshops to explore command and control related issues.
- Continue to develop manuscripts for widely read and respected C2 publications and outreach program.
- Maintain and expand C2 research community website
- Continue campaign of experimentation related to information sharing, collaboration, and trust.

FY 2009 Plans (\$2.248 million)

- Continue to pursue research on new approaches to military and civil-military command and control suitable for 21st Century coalition operations including stability and reconstruction.
- Continue to fund the Edge Institute at the Navy Post Graduate School (NPS) and selected research efforts at other universities.
- Continue, in collaboration with allies and NATO partners, the development and testing of metrics and a conceptual framework suitable for assessing command and control in the context of network-centric coalition operations.
- Support JFCOM and other DoD organizations in the design and conduct of experiments
- Continue to work with the DoD community and international partners to improve the understanding of Information Age command and control related concepts, technologies, and experiments.
- Conduct 13th International Command and Control Research and Technology Symposia.
- Conduct workshops to explore command and control related issues.
- Continue to develop manuscripts for widely read and respected C2 publications and outreach program.
- Maintain and expand C2 research community website

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- Continue campaign of experimentation related to information sharing, collaboration, and trust.

B. Program Change Summary: (Show total funding, schedule, and technical changes for the program element that have occurred since the previous President's Budget Submission)

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Previous President's Budget	16.539	10.990	11.152	11.242
Current POM/BES	16.081	16.642	11.152	11.242
Total Adjustments	-.458	5.652		
Congressional program reductions				
Congressional rescissions, Inflation Adjustments	-.458	-.098		
Congressional increases		5.750		
Reprogrammings				
Transfer				

Program Change Summary:

FY 2006: SBIR -.409 million, STTR -.049 million.

FY 2007: Congressional Add 5.750 million, FFRDC -.033 million, Economic Assumptions -.065 million.

FY 2008: No change.

FY 2009: No change.

C. Other Program Funding Summary: N/A

D. Acquisition Strategy. N/A

E. Performance Metrics:

- Community participation in command and control research program (CCRP) events.
- Number of requests for CCRP publications.
- Number of international countries engaged in net centric discussions and collaborative efforts.
- Successfully sponsored symposia/workshops to discuss command and control research initiatives.

CISA Performance is based on the number of initiatives that transition to the net-centric environment to support operations.

Measures include:

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- Requirements: Business products identified in need of change
Business products impacted or changed due to architecture analysis or products
- Acquisitions: Number of system(s) or system functions identified as duplicate
Number an/or type of system identified as necessary to complete capability
Number of system(s) and/or applications impacted by architecture analysis
- Portfolio Management:
Number of systems included in portfolio
Cost estimates provided for portfolio
Number of duplicate systems identified in portfolio analysis
Funds obtained as a result of portfolio analysis

DARS Performance Metrics:

- Getting key service program managers to use DARS to store and retrieve architecture data to include Future Combat System (FCS), Command and Control Constellation (C2C), FORCENET.
- Obtaining Intelligence Community Agencies such as National Security Agency (NSA), Defense Intelligence Agency (DIA), National Geospatial Agency (NGA) architects and program managers to store and retrieve architecture data from DARS
- Participation from leading COTS enterprise architecture vendors to use and maintain currency with CADM XML with their version releases
- Acceptance of CADM XML as the basis for an international data exchange standard

C2 Integrated Planning & Management Performance Metrics:

- Successfully develop, coordinate, and publish DOD C2 policies and operational concepts.
- Establishment of an information integration and decision portfolio of C2 services and applications to demonstrate selected capabilities.
- Development of Dynamic Operational Communities of Interest services based on the capabilities provided by the NCES Program.

Establishment of an ontological framework and XML data model to permit the meta-tagging of information integration decision portfolio data at the strategic and national C2 level in a manner consistent with other DoD data strategies and modeling efforts.

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Exhibit R-2a, RDT&E Project Justification						Date: February 2007		
Appropriation/Budget Activity RDT&E, Defense-Wide, BA 6				Project Name and Number: Command Information Superiority Architectures (CISA)/PE 0605170D8Z				
Cost (\$ in millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 202	FY 2013
Project Name: Command Information Superiority Architectures	6.042	5.465	5.576	5.621	5.817	5.873	5.965	6.057
A. Mission Description and Budget Item Justification:								
<p>Program Description: The CISA program provides the Unified Commands with a structured planning process based on Information Technology (IT) best business practices to define current and objective Command capabilities for IT support to assigned missions in a net-centric environment. CISA is the DoD program that provides architectures in compliance with the Clinger-Cohen Act, OMB Circular A-130, E-Gov Act and other related higher level guidance from the Federal CIO Council and the Federal Enterprise Architecture Program Management Office, which mandates the development and use of architectures as validation for IT investment decisions. The CISA program develops and maintains the Global Information Grid Enterprise Architecture, the Department's enterprise architecture as directed by Title 40. It supports the development of the framework, processes, and standards for developing and maintaining a DoD federated enterprise architecture. CISA is the leading developer for the net-centric reference model, the standard evaluation guide used by DoD Program Managers at all echelons of command for transitioning DoD programs to the net-centric environment. The CISA program supports the development of architectural standard tools and systems, including the DoD Architectural Framework manual and artifacts as well as facilitating the effective use of architectures in IT portfolio management. Develop and maintain key GIG policy and guidance documents that drive the acquisition, transition to and operation of a net-centric GIG; the implementation of policy/guidance through a set of critical supporting activities such as IT standards management, and DoD transition to Internet Protocol version 6 (IPv6); Real Time Service and IP convergence and enforcing policy through key enterprise governance mechanisms. Review and assess Command and Control, Computers, Communications and Intelligence Support Plans / Information Support Plans for the DoD CIO, identifying interoperability, supportability, net-centric and integration issues.</p>								
B. Accomplishments/Planned Program								
				FY 2006	FY 2007		FY 2008	
Accomplishment/ Effort/Subtotal Cost				6.042	5.465		5.576	
RDT&E Articles Quantity *(as applicable)								

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FY 2006 Accomplishments: (\$6.042 million)

- Established key data structures to support interoperability and integration of architecture information
- Established a plan to Federate DoD Architectures
- Began a cooperative effort with the UK, Canada, Australia, and Sweden to develop a data model to support the exchange of architecture information among coalition partners
 - Improved knowledge sharing of how architectures are being used to support decision processes by each of the member countries
- Implemented the Information Support Plan (ISP) Pilot Project. Streamlining the ISP waiver and legacy systems procedures in the ISP process.
- Development of GIG Net Centric Operations & Warfare NCOW Reference Models V 1.1 to include information assurance and data management strategies.
- Continued the development of the Core Architecture Data Model (CADM) providing common vocabulary for architecture information
- Continued to develop Net-Centric assessment checklists for DoD Program Managers
- Continued the net-centric implementation of GIG architecture.
- Continued the development of executable COCOM architectures impacting operations, budget and transitions
- Provided COCOM Net-Centric Assistance to integrate DoD programs within COCOM enterprise environment and link to COCOM inputs with DoD Enterprise Architecture Reference Models (DODEA RM) for OMB Exhibit 300 preparation
- Developed initial configuration management approach for GIG to better enable information sharing, security and end-to-end interoperability
- Developed an initial NetOps strategy for operating and defending the GIG as an enterprise
- Updated the GIG IT standards to address improved information sharing and GIG transition to support net-centric operations
- Updated and submitted DoD IPv6 Transition Plan (version 2), updated DoD IPv6 Master Test Plan (version 2), developed IPv6 Test and Evaluation (T&E) Report

FY 2007 Plans: (\$5.465 million)

- Implement second round of COCOM Net-Centric transition plans and assessments integrated with other DoD Program Net Centric assessments to ensure smooth “plug and play” capabilities
- Develop the Federated Enterprise Architecture Framework
- Update and maintain the CADM to be inline with the DoDAF

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- Develop COCOM Mobil Architecture Support Team Concept
- Update DoD Architecture Framework (DoDAF) Version 1 to be net centric
- Development of GIG NCOW Reference Models Version 2 integrating DoD net centric strategies
- Develop and provide integrated set of COCOM Net-Centric assessment capabilities for implementing transition plans
- Develop the International Defence Enterprise Architecture Specification (IDEAS) Data Model to specify the minimum set of data elements, attributes and relationships needed to support coalition force planning and develop the Data exchange specification
- Expand interactive use of architecture data for dynamic assembly of COCOM architectures to meet mission demands and changes for Unified Command Plans (UCPs)
- Evolve the ISP analysis tool into a Web-based model to identify and analyze interoperability, supportability, net-centric, and integration issues
- Identify and instantiate governance improvements to more effectively support GIG transition to net-centricity by revising key policies and guidance and overseeing the implementation of that governance through monitoring and waiver processes.
- Refine existing voice network policy as necessary. Develop Real Time Services policy and guidance to support voice, video and data convergence to IP across DoD in a secure, interoperable manner
- Support implementation of NetOps (operating and defending the GIG as an enterprise) by completing initial GIG NetOps policy and guidance and demonstrating increased NetOps capabilities
- Develop policy and guidance needed for an effective configuration management approach across GIG by using pilot efforts to develop and extend lessons learned such as appropriate configuration items, configuration tools, and configuration control bodies

FY 2008 Plans: (\$5.576 million)

- Review and revise all GIG related policies to support net-centric operations. Cancel policies as needed. Provide additional guidance, where needed. Deconflict and manage GIG policies and guidance and provide tools so they can be easily accessible and understandable by users
- Continue to support the evolution of GIG NetOps and configuration management concepts to improve IA, information sharing and interoperability. Incorporate, as appropriate, portfolio management into these mechanisms
- Continue to refine overall governance paradigm. Monitor and assess Component compliance with GIG policy and guidance. Evaluate and help resolve issues
- Implement COCOM Mobil Architecture Support Team Concept
- Continue develop the Federated Enterprise Architecture Framework
- Continue update of DoDAF

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- Continue development of GIG NCOW Reference Models
- Continue updates to the CADM
- Continue develop and provide integrated set of COCOM Net-Centric assessment capabilities for implementing transition plans
- Continue develop of the International Defence Enterprise Architecture Specification (IDEAS) Data Model
- Continue support of the ISP tools analysis development

FY 2009 Plans: (\$5.621 million)

- Review and revise GIG related policies to support net-centric operations.
- Continue to support the evolution of GIG NetOps and configuration management concepts to improve IA, information sharing and interoperability. Incorporate, as appropriate, portfolio management into these mechanisms
- Continue to refine overall governance paradigm. Monitor and assess Component compliance with GIG policy and guidance.
- Continue COCOM Mobil Architecture Support Team Support
- Continue progression of development of Net Centric DoD Architecture Framework
- Continue support of GIG NCOW Reference Models
- Continue support to the CADM

C. Other Program Funding Summary:

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	Total Cost
O&M, DW (PE0902198D8Z)	4.526	4.323	4.598	4.966	4.996	4.741	4.829	4.916	37.895

D. Acquisition Strategy: N/A

F. Major Performers: USCENTCOM, USJFCOM, USEUCOM, USSOCOM, USSTRATCOM, USTRANSCOM, USNORTHCOM, USSOUTHCOM, USPACOM, USFK, US ARMY Architecture Integration Cell/G6.

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Exhibit R-2a, RDT&E Project Justification							Date: February 2007	
Appropriation/Budget Activity RDT&E, Defense-Wide, BA 6				Project Name and Number: Defense Architecture Repository System (DARS)/PE 0605170D8Z				
Cost (\$ in millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Name: DARS	1.157	1.242	1.282	1.293	1.338	1.351	1.372	1.393
B. Mission Description and Budget Item Justification:								
<p>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. DARS goals for FY 2007 are aggressive and include implementing an automated metadata registration web service. 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. New DARS releases are scheduled every three to four months during FY 2007.</p>								
B. Accomplishments/Planned Program								
				FY 2006	FY 2007	FY 2008		
Accomplishment/ Effort/Subtotal Cost				1.157	1.242	1.282		
RDT&E Articles Quantity *(as applicable)								

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FY 2006 Accomplishments: (\$1.157 million)

- Completed implementing web-enabled views for all DoDAF for architecture products
- Implemented Core Architecture Data Model (CADM XML) extractors for OV6-A, OV-6B, OV-6C, SV-5, SV-9, SV-10A, SV-10B, SV-10C DoDAF views
- Began expansion of DARS capabilities as part of a “Federated Net-Centric” environment for data exchange
- Began expansion of DARS integration into the “Core Enterprise Services” of Net-Centric Enterprise Services (NCES)
- Developed and implemented DoD Discovery Metadata Standard (DDMS) extensions for architecture metadata registry capabilities
- Implemented new metadata collection capability using DDMS plus architecture community extensions
- Implemented DARS Federation registry and discovery web services on DARS servers
- Developed Federation client implementation support package (SDK) and worked with federation participants to implement remote federation web service clients
- Updated DARS toolbar to meet people with disabilities requirements
- Upgraded application environment to Java Development Kit (JDK) 1.5
- Provided COTS tool Interoperability Certification Support
- Developed new utilities to facilitate community data management
- Developed guidelines for architecture data configuration management and qualification of “authoritative data sources”
- Integrated the DoD Enterprise Architecture Business Reference Model into the DARS
- Investigated capabilities for architecture data reuse to dynamically assemble composite architectures and build custom data sets
- Investigated changes required to DARS to support executable architectures, JCIDS, and portfolio management
- Investigated capability for DoD Program managers to use DARS data to build OMB exhibit 300s and exhibit 53s

FY 2007 Plans: (\$1.242 million)

- Support the Department’s federated approach to Enterprise Architecture
- Continue the expansion DARS as part of a Net-Centric environment for data exchange
- Continue expansion of DARS integration into the “Core Enterprise Services” of Net-Centric Enterprise Services (NCES)
- Implement changes required to DARS from the new DoD Architecture Framework to include Net-Centric and Service-Oriented Architecture impacts on architecture products, support for executable architectures, JCIDS, and Portfolio Management
- Update DARS database to conform to new CADM 2.0 standard
- Implement new international architecture data exchange standards based on AP 233, CADM XML, and XMI

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- Support architecture data exchange evolution from CADM 1.0X to 2.0 using new data exchange standards
- Implement configuration management policies and processes for “authoritative data sources”
- Implement additional registry services to include holdings linking and alignment requirements
- Support federation client implementation in federation participants
- Convert all DARS functionality to web services
- Implement Service Orient Architecture (SOA) for enterprise architecture data management
- Implement DoD Architecture Framework (DoDAF) view quality assessment services
- Implement Java Message Services (JMS) for asynchronous transactions
- Implement support for disconnected confederate repositories
- Implement capability for DoD Program managers to use DARS data to build OMB exhibit 300s and exhibit 53s.
- Explore expansion of DARS data exchange capabilities to related decision support domains including modeling and simulation systems, logistics, program management, and budgetary systems
- Explore implementation of a “rules based model” to establish “earned value” for architecture data and architectures

FY 2008 Plans: (\$1.282 million)

- Continue to implement capabilities required to meet changes to the DoD Architecture Framework (DoDAF) that will include capabilities to expand the “dynamic” assembly of architectures based on mission or process requirements or “tailorable packages based on architecture data for assistance in decision making (DARS 7.0)
- Continue integration of DARS data services into “Core Enterprise Services”
- Fully integrate DARS data harvesting capabilities into a Federated Data-Centric environment

FY 2009 Plans: (\$1.293 million)

- Continue Operation and Maintenance of DARS
- Continue to implement capabilities required to meet changes to the DoD Architecture Framework (DoDAF)
- Continue integration of DARS data services into “Core Enterprise Services”
- Continue integration of DARS data harvesting capabilities into a Federated Data-Centric environment

C. Other Program Funding Summary: N/A

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D. Acquisition Strategy: N/A

E. Major Performers: DIA, DISA, NGA, NSA, NRO, Army HQ/G6/CIO, Navy CEC program, SPAWAR SOCOM, PACOM, CENTCOM, USFK, EUCOM, SOUTHCOM, NORTHCOM, TRANSCSOM, USMC Quantico, JFCOM, STRATCOM, NATO, Hanscom AFB, CECOM, INSCOM

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Exhibit R-2a, RDT&E Project Justification						Date: February 2007		
Appropriation/Budget Activity RDT&E, Defense-Wide, BA 6				Project Name and Number: Integrated Planning and Management/PE 0605170D8Z				
Cost (\$ in millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Name: Integrated Planning & Management	1.881	2.022	2.063	2.080	2.152	2.173	2.207	2.241
A. Mission Description and Budget Item Justification: Provide a single integrated C2 structure across the Department of Defense supporting every echelon of command from national to tactical. Transform the existing set of dedicated, single purpose command and control (C2) systems into an integrated framework to support the flow of information into the command structure and enhance decision. Assure policies and a strategy for a unified, flexible, and adaptable full-spectrum command and control capability for warfighters and senior leaders within a globally connected common information environment (CIE). Support the Joint Staff, JFCOM, and STRATCOM in development of an information integration and decision portfolio of services and applications that will decompose existing C2 programs of record into essential capabilities supporting Joint Operating Concepts and Joint Mission Essential Functions.								
B. Accomplishments/Planned Program								
				FY 2006	FY 2007	FY 2008		
Accomplishment/ Effort/Subtotal Cost				1.881	2.022	2.063		
RDT&E Articles Quantity *(as applicable)								

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FY 2006 Accomplishments: (\$1.881 million)

- Produced Converged C2 Capabilities, C2 Vision, DoD C2 Policy and C2 Operational Concept
- Developed, coordinated and implemented policy and new directives necessary to achieve the converged C2 capabilities.
- Specified overarching system engineering process.
- Developed Net-centric Implementation Documents
- Developed global C2 applications and services information integration framework.
- Developed analysis of nuclear/national C2 migration initiatives.

FY 2007 Plans: (\$2.022 million)

- Continue all efforts initiated in FY 2006. Update C2 documents as appropriate.
 - Develop technical standards required to integrate or migrate C2 systems for senior leadership into a net-centric environment.
 - Assist the COCOMS/Services in articulating C2 net-centric concepts and top level requirements that must be addressed by the JCIDS process.
 - Work with Joint Staff, Services and COCOMs on the development of C2 Capability Portfolio Management.
 - Continue development of C2-related ontologies, taxonomies, and registries.
 - Begin identifying C2 gaps and overlaps. Develop a plan to influence programs of record.

FY 2008 Plans: (\$2.063 million)

- As the net-centric environment evolves, update published C2 policies and concepts.
- Build on all previous efforts to accomplish C2 capability gap, shortfall, and overlap assessments and institutionalize the process.
- Influence Programs of Record based on identified gaps and overlaps
- Continue portfolio management activities.

FY 2009 Plans: (\$2.080 million)

- Work with the Joint Staff, Services and COCOMs to evolve portfolio management into a seamless set of C2 Capabilities (ie services, applications and data management)
- Begin the development of mutually dependent programs of record across the net-centric C2 environment.
- Finalize the data strategy for C2 in key mission areas.

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C. Other Program Funding Summary:

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	Total Cost
O&M, DW (PE0902198D8Z)	2.775	2.575	2.614	2.823	2.840	2.695	2.745	2.795	21.862

D. Acquisition Strategy: N/A

E. Major Performers: N/A