

Exhibit R-2, RDT&E Budget Item Justification				Date: May 2009
Appropriation/Budget Activity RDT&E DW/BA # 6			R-1 Item Nomenclature: IT Rapid Acquisition/0303169D8Z	
Cost (\$ in millions)	FY 2008	FY 2009	FY 2010	
Total PE Cost	5.315	5.225	4.667	

A. Mission Description and Budget Item Justification:

The Department must rapidly transform its processes in order to better support the agile warfighter. This PE is dedicated to Rapid Acquisition Incentives – Net Centricity (RAI-NC) which serve DoD by providing RDT&E proof-of-concept early implementation of key initiatives targeted at advancing and moving the Mission Areas of DoD towards Net Centricity. For example, a coherent and timely transition across DoD Enterprise networks and infrastructure to the next generation of the Internet Protocol, IP version 6 (IPv6) is critical to leveraging the power of information by the business and warfighting mission areas through net-centric operations/warfare. The PE permits accelerating domain support processes thru rapid proof of concept development and early implementation.

RAI-NC provides funding for Net Centric initiatives that directly support and facilitate the transformation of the DoD enterprise. This effort is consistent with the Department’s strategic goals to: enable net-centric operations and warfare, reduce costs; improve efficiency; increase effectiveness by improving the efficiency and effectiveness of process redesign; business systems modernization; strategic sourcing; infrastructure reductions; and optimal-sized inventories. The objective of RAI-NC is to accelerate DoD’s net centric transformation in support of the warfighter. Fully achieving net-centricity requires the ubiquity, mobility, security and performance achievable through implementation of the value added features of IPv6. The scope of Rapid Acquisition Incentives – Net Centricity encompasses defense policies, processes, people, technologies and systems that guide, perform or support aspects of warfighter support processes within the Department. Each RAI-NC initiative provides proof of concept sustainability, as well as the scalability necessary for Domain enterprise wide implementation that will allow end-to end accessibility to net-centric based decision-making information. Successful implementation will result in more reliable, accurate and timely net centric management information upon which managers can make more effective business decisions in a timely manner for the Department.

RAI-NC enables the acceleration of DoD efforts to implement network centric operational environments while providing a secure, flexible, reliable, affordable, integrated network to achieve high effectiveness in joint and combined operations. This program employs RDT&E funds to plan, develop, prototype and oversee proof of concept initiatives. Successful initiatives with supporting business cases demonstrating the achieved goals and outcomes and mission area support will be allowed to enter full deployment. This program is funded under BA-6, Management Support because it includes studies and analyses in support of R&D efforts.

Program Accomplishments and Plans:

FY 2008 Accomplishments (\$5.315 million)

While the base IPv6 standards are robust and provide rough parity with IPv4 capabilities, many of the advanced features of IPv6 needed to fully enable net-centricity were developed. A DoD-wide development, engineering, testing and evaluation effort provided an opportunity to drive DoD needs into those features and accelerate the availability of products with those needed features (e.g., quality of service, mobility, IP convergence). FY 2008 efforts will delivered significant improvements to the Domains and serve as change agents across DoD, thereby accelerating both the timeliness and quality of decision-making and information flow. RAI-NC initiatives accelerated DoD's net-centric transformation in direct support of the warfighter to include:

- Utilize COTS, IRAD, NDI, and CRADA Products
- Took advantage of exercises and demonstrations to test products
- Industry, Academia, and Government Lab participation
- Provided migration paths to warfighter systems.
- Developed IPv6 Test and Evaluation Report

FY 2009 Plans (\$5.225 million)

RAI-NC initiatives that accelerate DoD's net-centric transformation in direct support of the warfighter will continue to include:

- Continue to promote commodity-based software programmable radio technologies to rapidly respond to warfighter requirements and reducing costs.
- Continue to provide for rapid prototyping, test and demonstration of commodity-based software programmable radio solutions utilizing evolving technologies for near and long term solutions.
- Continue to focus on incorporating solutions from outside programs of records:
 - Modular software programmable radio approach enables incorporation of new offerings such as high band transceiver modules into open architecture designs
 - Encourage and provide a mechanism for test of commercial module upgrade offerings or alternative techniques to enhance capability and reduce cost
 - Foster P3I technology improvements into spirals of programs of records
 - Rapid development and demonstration of specific capabilities
 - Utilize COTS, IRAD, NDI, and CRADA Products
 - Take advantage of exercises and demonstrations to test products Industry, Academia, and Government Lab participation

- Continue to provide migration path to warfighter systems.
- Continue to support DoD transition to IPv6 and convergence of voice, video and data on IP based DoD networks by coordinated and integrated planning, policy/guidance and oversight

FY 2010 Plans (\$4.667 million)

- Monitor/evaluate implementation efforts of IPv6.
- Ensure IPv6 transition efforts are synchronized across all DoD Components by conducting program reviews and review of implementation plans.
- Incorporate into policy guidance, new direction and OMB goals regarding the management and implementation of IPv6.
- Hold compliance sessions to address common and unique issues requiring the DoD CIO's intervention to revise policy, provide additional guidance or to surface technological concerns with vendors or OMB, that are hampering execution.
- Update transition plan and policy to accommodate new guidance and technologies.
- Continue to work with DISA in providing governance and oversight of the Department's implementation of IPv6, including the review of products, identifying critical issues and making recommendations for solutions.
- Continue to provide oversight and guidance to DISA in developing and refining the NIPRNET/SIPRNET infrastructure to achieve full IPv6 capability.

B. Program Change Summary:

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
Previous Presidents Budget	5.152	5.254	4.701
Current Presidents Budget	5.315	5.225	4.667
Total Adjustments	0.163	-0.029	-0.034
Congressional program reductions			
Congressional rescissions			
Congressional increases			
Reprogrammings			
SIBR/STTR Transfer			
Program Adjustment	0.163	-0.029	-0.034
PBD Adjustment			

Program Change Explanation:
 FY 2008: Program adjustment.
 FY 2009: program adjustment.

FY 2010: Program adjustment.

C. Other Program Funding Summary: N/A

D. Acquisition Strategy: N/A

E. Performance Metrics:

- Timely development and issuance of policy, guidance, processes, and technologies to build, populate, govern, operate, and protect the Network.
- Development of plans and implementation activities for net centric data and IPv6 transformation capabilities.