Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Office of Secretary Of Defense										DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 6: *RDT&E Management Support*				R-1 ITEM NOMENCLATURE PE 0605100D8Z: *Joint Mission Environment Test Capability (JMETC)*							
COST ($ in Millions)	**FY 2011**	**FY 2012**	**FY 2013 Base**	**FY 2013 OCO**	**FY 2013 Total**	**FY 2014**	**FY 2015**	**FY 2016**	**FY 2017**	**Cost To Complete**	**Total Cost**
Total Program Element	9.986	10.218	19.380	-	19.380	19.060	19.332	19.217	19.405	Continuing	Continuing
100: *Joint Mission Environment Test Capability (JMETC)*	9.986	10.218	19.380	-	19.380	19.060	19.332	19.217	19.405	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

The Joint Mission Environment Test Capability (JMETC) program was established for the purpose of implementing the Department's strategy to move to an enterprise-centric, distributed test capability that results in acquisition systems fielded with enhanced joint capabilities, reduced program costs, and improved acquisition timelines. The JMETC program implements the infrastructure capabilities defined in the DoD's "Testing in a Joint Environment Roadmap" to provide acquisition program managers a robust nation-wide capability to "test like we fight." JMETC provides a persistent, distributed test and evaluation (T&E) capability that otherwise would not be readily available to Service/Component acquisition programs. This program is funded within the RDT&E Management Support Budget Activity because it is intended to provide test capability in support of RDT&E programs.

JMETC creates a common corporate capability to link live systems with virtual and constructive representations in order to generate a realistic joint mission test environment for the system(s) being tested. JMETC is a widely applicable, persistent, service provider for the Department's acquisition and net-centric programs. Key JMETC products include readily available connectivity over existing networks, standardized data transport solutions, tools and utilities for planning and conducting distributed integrations, DoD corporate distributed testing expertise, and a reuse repository. This common integration capability, through the use of the Test and Training Enabling Architecture (TENA), provides compatibility between JMETC and the Joint National Training Capability (JNTC), streamlining reuse of technical resources across the test and training communities. In turn, this integration capability enables combined test and training exercises.

By linking distributed facilities, JMETC allows acquisition programs to efficiently evaluate their warfighting capability in a realistic joint mission environment. This enables a customer-defined joint mission test environment for systems engineering and testing, extensible to training and experimentation, in a timely and cost effective manner.

JMETC's institutional funding builds, maintains, and operates the JMETC infrastructure and pays for persistent availability of national connectivity for testing; data communications middleware; identification and development of interface standards; common software tools and components; and a reuse repository. It also funds JMETC program management, facilities, equipment, operating costs, and special studies and analysis related to distributed test capabilities and infrastructure. Key attributes of the JMETC include: persistency; interoperability; reuse; various combinations of distributed capabilities (reconfigurable infrastructure to meet customer requirements); modeling and simulation (M&S) linkage; Live-Virtual-Constructive (LVC) test resource integration; and distributed test support to satisfy both Service and Joint needs. System engineering, training, and experimentation all benefit from a corporate JMETC developed for T&E.

The Test Resource Management Center (TRMC) is the Department's lead for the JMETC program, and oversees both its development and its operations.

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B. Program Change Summary ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	10.287	10.479	10.743	-	10.743
Current President's Budget	9.986	10.218	19.380	-	19.380
Total Adjustments	-0.301	-0.261	8.637	-	8.637
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.208	-0.191			
• Other Program Adjustments	-0.093	-0.070	8.410	-	8.410
• Economic Assumption Adjustments	-	-	0.227	-	0.227

C. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Title: Joint Mission Environment Test Capability	9.986	10.218	19.380

FY 2011 Accomplishments:

- Conducted over 60 distinct customer distributed live-virtual-constructive (LVC) test activities and support to DoD acquisition programs and events as follows: Broad Area Maritime Surveillance (BAMS) Live-Virtual-Constructive Distributed Event; Joint Integrated Air and Missile Defense Organization's (JIAMDO) Correlation/Decorrelation Interoperability Test (C/DIT)and the Joint Sensor Integration Test Events; Joint Interoperability Test Command (JITC) Joint Interoperability Tests (four actual tests); B1-B Fully Integrated Data Link (FIDL); Air Ground Integrated Layer Exploration (AGILE) Fire III and IV; Joint Track Manager Capability; United Endeavor 11-1 and 11-3; Joint Command, Control, Communications, Computers Interoperability Test and Evaluation Capability (InterTEC) System Integration Test.
- Continued to expand the JMETC persistent connectivity infrastructure from 57 to 66 sites (and an additional 9 are planned) to meet customer requirements; expanded network connectivity to industry (Northrop Grumman Corporation and Boeing Corporation) and successfully peered to the DoD's Joint Information Operations Range.
- Continued distributed test planning support to on-going programs (e.g., F-35, Joint Tactical Radio System Airborne Maritime Fixed (AMF) Small Airborne (SA), Gerald R. Ford Class (CVN-78); Multi-Function Advanced Data Link, Navy Program Executive Office for Integrated Warfare Systems, Joint Integrated Air and Missile Defense Organization, Small Diameter Bomb Increment II, B1-B Lancer, United States Marine Corp's Ground/Air Task Oriented Radar (G/ATOR) etc.).
- Continued conducting a technical watch for both government and commercially available software tools to reinforce the current suite of JMETC standard distributed test support tools.
- Continued coordination with the JMETC Users Group workshop to facilitate development and incorporation of the highest priority improvements to the distributed test software and standard interfaces to meet customer requirements. JMETC conducted 2 Users

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C. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
Group meetings in FY 2011 with an average of 250 participants for all DoD Components. Through the JMETC Users Group, the JMETC program office continued to develop and implement the distributed test tools evaluation for application by the DoD T&E community. - Continued planning for the development of a JMETC wireless range extension to support the need for temporary local site installations. - Continued to lead the coordination and implementation of DoD-wide improvements to the DoD Information Assurance Certification and Accreditation Process (DIACAP) throughout the DoD RDT&E community. Appointed as a non-voting member of the DoD DIACAP Technical Advisory Group (TAG) and created a DIACAP Knowledge Service Forum for the DoD RDT&E community. - Continued upgrade of the JMETC Reuse Repository to provide general program information; provided lessons learned from previous distributed LVC tests; opened access to software interfaces, tools, utilities, and test metadata; provided capabilities of each site on the JMETC infrastructure; provided all help-desk functions; and provided opportunities for collaboration by making all content and tools available to the DoD T&E community for reuse. - Engaged/planned with more than 27 customers (potential and active) providing acquisition programs and test ranges with technical assistance on JMETC capabilities, standards, interfaces, tools, available nodes, and expertise in planning and conducting distributed tests. - Initiated the the DoD-wide T&E community needs analysis to define joint requirements for improving test data management for the distributed test capability.			
FY 2012 Plans: - Complete the concept implementation of a JMETC wireless range extension to support the need for temporary site installations. - Complete the installation of a networked cross-domain security application at Dahlgren, VA, to expand the JMETC capability to distributed test support that includes coalition participants. - Continue to provide distributed test support for major customer events such as Joint Tactical Radio System (JTRS), JIAMDO Projects, Joint Interoperability Test Command's Joint Interoperability Tests (5 tests), AGILE Fire (2 events), B-1B Fully Integrated Data Link Testing, and BAMS LVC DE. - Continue to provide general distributed test support to customers such as F-35 M&S Interoperability, F-22 Data Link Testing, BAMS, CVN-78, Navy Accelerated Mid-Term Interoperability Improvement Project (AMIIP), Air Force Special Operations Command, and InterTEC development and fielding, Joint Operational Test Assessment (JOTA), Consolidated Afloat Networks and Enterprise Services Program, Ground/Air Task Oriented Radar (G/ATOR) Program, Common Aviation Command and Control System (CAC2S) Program, and for 3-10 smaller test activities. Assist and support customers with distributed test tools and expertise for planning their distributed events. - Continue outreach efforts to new acquisition programs that must demonstrate compliance with Net-Ready Key Performance Parameter requirements.			

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C. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
- Continue planning support to on-going acquisition programs, particularly CVN-78, Joint Strike Fighter (JSF), F-22, Joint Tactical Radio System (JTRS), and InterTEC. - Continue to provide distributed test planning support to other customers for their distributed test events. - Continue to support and upgrade the JMETC Reuse Repository to store software interfaces, tools, utilities, and test metadata making all available to the DoD test community for reuse. - Continue to expand and sustain the JMETC persistent connectivity infrastructure to meet customer requirements in full consideration of maximizing their potential for reuse. - Continue coordination with the High Performance Computing Modernization Office (HPCMO) to develop plans to improve network services focused on the Secure Defense Research and Engineering Network (SDREN) as well as implement an operational computer network defense capability. - Continue coordination efforts to rationalize and integrate Service distributed T&E infrastructure to the JMETC infrastructure. - Continue development and implementation of the distributed test tools evaluation and selection process in coordination with the JMETC Users Group and complete plans and resource requirements determinations to sustain the “selected” tools. - Work with the T&E Community to define joint requirements for data management in the distributed test capability. Work with other DoD and Service programs to fulfill these requirements.			
FY 2013 Plans: - Continue to provide distributed test support for 3-4 major customer events such as Joint Tactical Radio System (JTRS), F-35, F-22, BAMS, CVN-78, InterTEC, and 3-10 smaller test activities, as well as, continuous interconnectivity between distributed test resources for day-to-day exchange of test operations data. Assist customers with distributed test tools and expertise for planning their distributed events. - Continue outreach efforts to new acquisition programs that must demonstrate compliance with Net-Ready Key Performance Parameter requirements. - Continue planning support to on-going acquisition programs, particularly JTRS, JIAMDO Projects, F-22, BAMS, CVN-78, JSF. - Continue to provide distributed test planning support to other customers for their distributed test events. - Continue coordination efforts to rationalize and integrate Service distributed T&E infrastructure to the JMETC infrastructure. - Continue to support and upgrade the JMETC Reuse Repository to store software interfaces, tools, utilities, and test metadata making all available to the DoD test community for reuse. - Continue to sustain the JMETC persistent connectivity infrastructure and expand as necessary to meet customer requirements in full consideration of maximizing the potential for reuse. - Continue distributed test tools evaluation and selection process in coordination with the JMETC Users Group and complete plans and resource requirements determinations to sustain the “select” tools. - Continue to expand and sustain the JMETC persistent connectivity infrastructure to meet customer requirements in full consideration of maximizing the potential for reuse.			

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C. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012	FY 2013
- Initiate the plans and coordination to establish and improve the test infrastructure for cyber tests and assessments.			
Accomplishments/Planned Programs Subtotals	9.986	10.218	19.380

D. Other Program Funding Summary ($ in Millions)

N/A

E. Acquisition Strategy

N/A

F. Performance Metrics

- Expansion of initial capability to support acquisition program test requirements, providing distributed capability to test systems and demonstrating required joint capability.
- Successful use of integration software compatible with the JNTC and Joint Training infrastructure.
- Number of test sites/locations that are reused to support distributed tests using the JMETC infrastructure.