

**UNCLASSIFIED**

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2016 Defense Information Systems Agency **Date:** February 2015

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / <i>C4I Interoperability</i>
---	---

COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	501.178	67.027	63.558	64.921	-	64.921	59.675	61.896	65.145	65.856	Continuing	Continuing
T30: <i>MRTFB Test and Evaluation</i>	132.498	11.798	7.494	8.182	-	8.182	8.012	7.940	8.068	8.062	Continuing	Continuing
T40: <i>Major Range Test Facility Base Operations</i>	368.680	55.229	56.064	56.739	-	56.739	51.663	53.956	57.077	57.794	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

The Defense Information Systems Agency's Joint Interoperability Test Command (JITC) serves as the only joint element of the Department of Defense's (DoD's) Major Range and Test Facility Base (MRTFB) that is operated primarily for Information Technology and National Security Systems (IT/NSS) Test and Evaluation (T&E) support missions. JITC executes the T&E mission in support of Command, Control, Communications, Computers and Intelligence (C4I), and is the DoD's Sole Interoperability Certifier and the only Non-Service Operational Test Agency.

With a focus on T&E for IT, JITC has the unique mission to provide consistent, structured, and effective T&E services that include converged information environment, Cyber, Cloud services, Mobility and NSS. JITC also has the responsibility for ensuring Joint/Coalition interoperability; issuing Interoperability Certifications; conducting Operational Evaluations; maintaining a federated IT infrastructure as a MRTFB Activity and providing direct interoperability support to the warfighter by ensuring Joint warfighting capabilities are interoperable and support mission needs.

<b><u>B. Program Change Summary (\$ in Millions)</u></b>	<b><u>FY 2014</u></b>	<b><u>FY 2015</u></b>	<b><u>FY 2016 Base</u></b>	<b><u>FY 2016 OCO</u></b>	<b><u>FY 2016 Total</u></b>
Previous President's Budget	67.626	63.558	61.761	-	61.761
Current President's Budget	67.027	63.558	64.921	-	64.921
Total Adjustments	-0.599	-	3.160	-	3.160
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-0.599	-	3.160	-	3.160

**Change Summary Explanation**

The FY 2014 decrease of -\$0.599 is the result of reductions in Warfighter support, travel, training and infrastructure updates and replacements.

**UNCLASSIFIED**

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Defense Information Systems Agency		Date: February 2015
<b>Appropriation/Budget Activity</b> 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / C4I Interoperability	
<p>The FY 2016 increase of +\$3.160 will provide MRTFB infrastructure upgrades and improvements.</p>		

# UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Information Systems Agency										Date: February 2015		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0208045K / C4I Interoperability				Project (Number/Name) T30 / MRTFB Test and Evaluation			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
T30: MRTFB Test and Evaluation	132.498	11.798	7.494	8.182	-	8.182	8.012	7.940	8.068	8.062	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

## A. Mission Description and Budget Item Justification

The Defense Information Systems Agency (DISA), through the Joint Interoperability Test Command (JITC), manages the Department's Interoperability Test, Evaluation, and Certification process that is structured to provide meaningful and independent test results in order to increase stakeholder confidence. The objectives, of the Test and Evaluation (T&E) activities, are to validate that DISA's (and the Department's, where appropriate) deliverables have met operational requirements. The T&E activities target evaluation strategies in the design, development, operational, integration and/or sustainment aspects of every program requiring support. DISA's T&E efforts span a variety of test categories supporting DISA's delivery of Department-wide enterprise solutions as well as Service, Agency, and mission partner developmental, operational, Information Assurance, and interoperability testing, validation and certification efforts. These efforts are focused on T&E for Information Technology (IT) that includes the Joint Information Environment (JIE), Cyber, Cloud services, and Mobility.

As the Department of Defense (DoD) Joint Interoperability Certification Authority, JITC annually:

- Issues hundreds of interoperability testing and certification related products.
- Manages the scheduling and executes multiple annual distributed Joint Tactical Data Link hardware in the loop interoperability test events. These events are designed to evaluate, certify and re-certify Service/Agency Tactical Data systems.
- Reviews hundreds of Joint Capabilities Integration and Development System documents, interoperability support plans and Legacy Waiver requests on behalf of the DoD Chief Information Officer (CIO) and the Joint Staff.
- Serves as executive agent to DoD Interoperability Steering Group, in support of the DoD CIO, and uses this forum to coordinate policy, adjudicate issues, and to process Interim Certificates to Operate.
- Ensures interoperability test and certification standard practices and procedures are in accordance with DoD policy, and reviews and issues over 600 Joint interoperability certifications annually for DoD's Information Technology and National Security Systems (IT/NSS).
- Manages the scheduling and prioritization of multiple annual distributed Joint Tactical Data Link simulated test events using real components (hardware in the loop interoperability test events) designed to evaluate, certify and re-certify Service/Agency Tactical systems.

JITC provides interoperability test support to Joint, Coalition and Allied operations in theater by providing Interoperability test support within the area of responsibility and supports exercises intended to evaluate Joint, Coalition and Allied operations in, or planning to deploy to theater by:

- Providing on-demand rapid response contingency support to Regional Combatant Commands (COCOMs) as required, and conducting assessments of interoperability exercises.
- Conducting assessments during three of the largest interoperability exercises (the Endeavors).
- Broadening its support to the Joint Staff and functional COCOMs with a multitude of interoperability assessment services.
- Maintaining a 24x7 Warfighter Command, Control, Communications, Computers and Intelligence (C4I) Interoperability Hotline that connects warfighters to subject matter experts to resolve IT interoperability challenges.

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Information Systems Agency		Date: February 2015		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0208045K / C4I Interoperability	Project (Number/Name) T30 / MRTFB Test and Evaluation		
<ul style="list-style-type: none"><li>Establishing the framework for the conduct of annual independent evaluations and the status of interoperability through DoD Interoperability Communications Exercises (DICE).</li><li>Emulating a distributed Joint Task Force network, providing realism and operational significance during the assessments and evaluations of data integrity, interfacing and responsiveness coupled with efficient configuration tactics, techniques, and procedures.</li><li>Including first responder local and federal communications as part of the task force.</li></ul> <p>As the only non-Service Operational Test Agency (OTA) within DoD, JITC conducts operational testing of IT/NSS under realistic conditions to determine the operational effectiveness, suitability, interoperability, and security; and independently assesses the operational impact of system issues on mission accomplishment. JITC is the OTA for DISA-managed programs, and also upon request serves as the OTA for other Agencies such as the Defense Logistics Agency, Department of Homeland Security, and the National Security Agency.</p> <p>JITC designs Operational Test and Evaluation (OT&amp;E) events to determine if IT/NSS meet user requirements, offering sustaining support services to users to assist Acquisition Program Managers with meeting their overall milestone objectives.</p> <p>JITC focuses its efforts towards core T&amp;E improvements, better T&amp;E policy for IT/NSS and designing new test methodologies to better assess Enterprise Service systems, aligning with the Information Technology Service Management model evaluating fulfillment services for suitability.</p> <p>The T&amp;E project supports the strategy development and investment plans in support of maintaining, improving and operating the DISA Major Range and Test Facility Base (MRTFB). Specific goals for DISA's MRTFB each year are to:</p> <ul style="list-style-type: none"><li>Integrate evolving technologies that are able to leverage efficiencies such as virtualization, enterprise elements such as Infrastructure as a Service and Platform as a Service, and the foundational Cyber assets mandated by the JIE.</li><li>Expand test infrastructure and operations to allow for rapid, on-demand provisioning, and federation across the DoD and Cyber integration with enterprise environments.</li><li>Design consistent, repeatable test methodologies that ensure efficient T&amp;E on changing or emerging technologies.</li><li>Provide T&amp;E guidance/oversight to nearly 130 DISA programs, creating synergy and efficiencies across the large DISA IT portfolio, gaining insight in new technologies and commercial best practices.</li></ul>				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
Title: DoD's Joint Interoperability Certification Authority		8.991	6.449	7.064
Description: Plans and executes interoperability certifications for Department of Defense's (DoD)) Information Technology and National Security Systems (IT/NSS) by evaluating joint military operations, conformance to standards, and participating in developmental testing or executing purposefully planned Interoperability Test Events.				
FY 2014 Accomplishments: Assured interoperability controls are were met by conducting Test and Evaluation (T&E)on IT/NSS, Cyber, and acquisition programs. Provided interoperability test support for the DoD's migration to the Defense Enterprise Services and cloud services				

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Information Systems Agency		Date: February 2015		
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0208045K / C4I Interoperability	Project (Number/Name) T30 / MRTFB Test and Evaluation		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
environments. Continued to evolve test policies and processes to proactively support the DoD’s migration towards more agile development and acquisition of IT capabilities. Supported DoD mobility communications efforts by performing early assessments to evaluate mobility devices, infrastructure, and enterprise-level classified and secure unclassified services. Refined the testing methodology and executed additional test events in line with the Joint Information Environment (JIE) capability increments and phases.  <b>FY 2015 Plans:</b> Will assure interoperability controls are met by conducting T&E on IT/NSS and acquisition programs. Will provide interoperability test support for the DoD’s migration to a converged enterprise environment. Will support JIE by providing interoperability test, evaluation and certification support.  Will support the secure operationalized interoperability of the JIE by developing policies and methodologies for the conduct of T&E on enterprise services, cyber security capabilities, cloud computing and brokering, and mobile devices and applications. Will provide interoperability test, evaluation and certification support for JIE capabilities from the infrastructure to applications and continue to refine policies and test and evaluation methodologies as new technologies and approaches for JIE migration are developed and deployed.  The decrease of -\$2.542 from FY 2014 to FY 2015 will require Joint Interoperability Test Command (JITC) to conduct very limited Joint Tactical Data Link events; reduce other interoperability certification and support capacity; limit contractor support, travel and training costs; and eliminate DoD Interoperability Communications Exercise (DICE) support.  <b>FY 2016 Plans:</b> Will focus on new T&E capabilities designed to add flexibility and enhance collaboration with partners to improve T&E services. Will leverage cloud and virtual technologies to provide automation and services that are more agile than physical test environments. Will continue to capitalize on big data analytics and tools to conduct data analysis in the operational environment allowing for continuous assessment of overall performance. This will provide a means to define trends, focus test events, as well as reduce risk through continuous monitoring and evaluation.  The increase of +\$0.615 from FY 2015 to FY 2016 is for interoperability certifications support for DoD’s migration to the Defense Enterprise Services and cloud services environments.				
Title: Operational Test and Evaluation  Description: Conduct operational testing of IT/NSS under realistic operational conditions to determine the operational effectiveness, suitability, interoperability, and security of a particular system. Independently assesses the operational impact of system issues on mission accomplishment.		1.080	0.783	0.856

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Defense Information Systems Agency			<b>Date:</b> February 2015		
<b>Appropriation/Budget Activity</b> 0400 / 7		<b>R-1 Program Element (Number/Name)</b> PE 0208045K / C4I Interoperability		<b>Project (Number/Name)</b> T30 / MRTFB Test and Evaluation	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>			<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>
<p><b>FY 2014 Accomplishments:</b> Continued to develop and pilot test methodologies to address OT&amp;E of DODIN/JIE enabling capabilities (Enterprise Services) and DISA IT/NSS acquisition programs to determine systems' operational effectiveness, suitability, interoperability, and security. Emphasis is was placed on correlating this information to IT Infrastructure Library best practices and International Organization for Standardization 20000 standards. Provided continuing continued OT&amp;E support to COCOMs, Military Services, and Defense Agencies with focus on improving core capabilities, OT&amp;E policy, operational evaluation, centralized data management, and agile test methodologies.</p> <p><b>FY 2015 Plans:</b> Will provide OT&amp;E for the JIE to ensure IT capabilities are effective, suitable, and secure. Provide continuing OT&amp;E support to COCOMs, Military Services, and Defense Agencies, as requested.</p> <p>The decrease of -\$0.297 from FY 2014 to FY 2015 is due to reductions in operational T&amp;E capacity and a delay in the evolution of OT&amp;E policy and new methodologies for the conduct of OT&amp;E, reduced contractor support and travel and training costs.</p> <p><b>FY 2016 Plans:</b> Will continue OT&amp;E processes, procedures, and tool improvement to evolve operational testing capabilities through the use of virtualization to emulate users and devices to better evaluate performance. Will provide OT&amp;E for JIE to ensure capabilities are effective, suitable, interoperable, and secure. Provide continuing OT&amp;E support to COCOMs, Military Services, and Defense Agencies, as requested.</p> <p>The increase of +\$0.073 from FY 2015 to FY 2016 is for development of new methodologies for the conduct of OT&amp;E.</p>					
<p><b>Title:</b> Support to Warfighter</p> <p><b>Description:</b> Provides pre/post-production evaluations including: collecting relevant data during a continuous monitoring effort, and providing on-the-spot evaluations of problem areas and viable mission-oriented solutions to warfighting COCOMs during exercises and contingency operations.</p> <p><b>FY 2014 Accomplishments:</b> Continued to support the warfighter in all regions, prioritizing efforts in the Asia Pacific region, consistent with the National Defense Strategy. This shift in focus includes included an effort to reestablish a liaison at the PACOM headquarters to help identify and coordinate the resolution of theater United States (US)/Coalition interoperability issues. Continued to provide on-demand rapid response contingency support to Regional COCOMs and streamline assessment support for the three largest COCOM interoperability exercises across Europe, Africa, and the Pacific. Addressed Hotline requests rapidly and aggressively. Continued</p>			1.727	0.262	0.262

# UNCLASSIFIED

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Defense Information Systems Agency			<b>Date:</b> February 2015		
<b>Appropriation/Budget Activity</b> 0400 / 7		<b>R-1 Program Element (Number/Name)</b> PE 0208045K / C4I Interoperability		<b>Project (Number/Name)</b> T30 / MRTFB Test and Evaluation	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>			<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>
efforts to refine its consultation and interoperability assessment services to the Joint Staff and functional COCOMs while seeking innovative means to deliver cost-effective, operationally-focused support across the full-spectrum of interoperability challenges.					
<b>FY 2015 Plans:</b> Warfighter support will be eliminated in some regions and will focus support primarily on the Asia Pacific region, consistent with the National Defense Strategy and will only sustain a Warfighter capability to respond to critical fielded system issues.					
The decrease of -\$1.465 from FY 2014 to FY 2015 is due to Budget Control Act reductions and will require result in a reduction to Warfighter support (including civilian and contractor Hotline and COCOM support) and travel and training costs.					
<b>FY 2016 Plans:</b> Will continue its focus support primarily on the Asia Pacific region, consistent with the National Defense Strategy and will only sustain a Warfighter Support capability to respond to critical fielded system issues.					
<b>Accomplishments/Planned Programs Subtotals</b>			11.798	7.494	8.182
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A					
<b>Remarks</b>					
<b>D. Acquisition Strategy</b> T&E Mission Support Services (MSS) cost plus and firm fixed price contract provides T&E support by performing a wide range of non-personal services to encompass testing, scientific, engineering, logistic, administrative, and ancillary support of the DISA T&E missions. The T&E MSS contract provides for expansion and contraction of staff years as workload dictates.					
<b>E. Performance Metrics</b> JITC performance for interoperability and operational test events is measured by customer satisfaction specific to capacity and quality as described below:  JITC issued over 952 interoperability testing and certification related products, and processed 82 ICTO requests for the ISG. JITC conducted 40 desk top reviews and conducted 60 new Unified Capabilities evaluations, adding 30 new products to the Unified Capabilities Approved Products List. Additionally, JITC responded to approximately 177 hotline calls from across the DoD, other federal Agencies and DoD supporting commercial sectors. One hundred percent were responded to within the requisite timelines which is two hours for responding to critical, exercise operational, or contingency related interoperability problems, and next business day for routine troubleshooting requests. Support levels are expected to remain steady in FY14 and FY15.					

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Information Systems Agency		Date: February 2015
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0208045K / C4I Interoperability	Project (Number/Name) T30 / MRTFB Test and Evaluation
<p>In FY 2016, JITC will continue to measure percent (%) of OT&amp;E test plans approved by DOT&amp;E prior to start of test and percent (%) of OT&amp;E test reports delivered within 60 days after test event ended with a target value of 95%. Measurement of customer satisfaction continues for T&amp;E and Hotline Services with a target rating of 5 on a 5-point scale with 5 being the best rating.</p>		



**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Defense Information Systems Agency												Date: February 2015			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 0208045K / C4I Interoperability				Project (Number/Name) T30 / MRTFB Test and Evaluation					
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	C/T&M	Northrop Grumman Mission System : Ft. Huachuca, AZ	36.487	-		-		-		-		-	-	36.487	36.487
Test and Evaluation	C/T&M	Interop Joint Venture : Ft. Huachuca, AZ	44.342	-		-		-		-		-	-	44.342	44.342
Test and Evaluation	C/T&M	Northrop Grumman Information Technology : Ft. Huachuca, AZ	25.831	-		-		-		-		-	-	25.831	25.831
Test and Evaluation	C/Various	Various : Various	3.229	7.881	Oct 2013	3.966	Oct 2014	-		-		-	Continuing	Continuing	Continuing
Test and Evaluation	Option/CPFF	ALION SCIENCE & TECHNOLOGY CORP : Various	-	-		-		0.004	Oct 2015	-		0.004	Continuing	Continuing	Continuing
Test and Evaluation	Option/CPFF	AMERICAN SYSTEMS CORP : Various	-	-		-		0.066	Oct 2015	-		0.066	Continuing	Continuing	Continuing
Test and Evaluation	Option/CPFF	MANTECH TELECOMMUNICATIONS AND INFORMATION : Various	-	-		-		0.293	Oct 2015	-		0.293	Continuing	Continuing	Continuing
Test and Evaluation	Option/CPFF	OBERON ASSOCIATES : Various	-	-		-		0.056	Oct 2015	-		0.056	Continuing	Continuing	Continuing
Test and Evaluation	Option/CPFF	TASC, INC. : Various	-	-		-		1.174	Oct 2015	-		1.174	Continuing	Continuing	Continuing
Test and Evaluation	Option/FFP	Multiple : Various	-	-		-		0.776		-		0.776	Continuing	Continuing	Continuing
Subtotal			109.889	7.881		3.966		2.369		-		2.369	-	-	-

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Defense Information Systems Agency												Date: February 2015			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 0208045K / C4I Interoperability				Project (Number/Name) T30 / MRTFB Test and Evaluation					
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Services	Various	Defense Information Systems Agency : Ft. Huachuca, AZ	22.609	3.917	Oct 2013	3.528	Oct 2014	5.813	Oct 2015	-		5.813	Continuing	Continuing	Continuing
Subtotal			22.609	3.917		3.528		5.813		-		5.813	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			132.498	11.798		7.494		8.182		-		8.182	-	-	-
Remarks															

**UNCLASSIFIED**

**Exhibit R-4, RDT&E Schedule Profile:** PB 2016 Defense Information Systems Agency **Date:** February 2015

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / C4I Interoperability	<b>Project (Number/Name)</b> T30 / MRTFB Test and Evaluation
--	--	---

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>MRTFB Test and Evaluation</b>																												
Provide Operational Test & Evaluation (OT&E) of DISA acquired systems																												
Conduct joint interoperability test and certification on IT/NSS using the Joint Family of Tactical Data Links (TDL)																												
Operate 24/7 Interoperability Hotline																												
Provide Joint/Combined Interoperability Test support to Combatant Commanders																												
Provide JIE Compliance Test and Evaluation framework and infrastructure																												
Provide Cyberspace Test and Evaluation framework and infrastructure																												
Plan and conduct the Defense Interoperability Communications Exercise (DICE)																												

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2016 Defense Information Systems Agency			<b>Date:</b> February 2015
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / <i>C4I Interoperability</i>	<b>Project (Number/Name)</b> T30 / <i>MRTFB Test and Evaluation</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>MRTFB Test and Evaluation</i></b>				
Provide Operational Test & Evaluation (OT&E) of DISA acquired systems	1	2014	4	2020
Conduct joint interoperability test and certification on IT/NSS using the Joint Family of Tactical Data Links (TDL)	1	2014	4	2020
Operate 24/7 Interoperability Hotline	1	2014	4	2020
Provide Joint/Combined Interoperability Test support to Combatant Commanders	1	2014	4	2020
Provide JIE Compliance Test and Evaluation framework and infrastructure	1	2014	4	2020
Provide Cyberspace Test and Evaluation framework and infrastructure	1	2014	4	2020
Plan and conduct the Defense Interoperability Communications Exercise (DICE)	3	2014	2	2015

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2016 Defense Information Systems Agency										Date: February 2015		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0208045K / C4I Interoperability				Project (Number/Name) T40 / Major Range Test Facility Base Operations			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
T40: Major Range Test Facility Base Operations	368.680	55.229	56.064	56.739	-	56.739	51.663	53.956	57.077	57.794	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

As the only non-Service activity of the Department of Defense (DoD) Major Range and Test Facility Base (MRTFB), Defense Information Systems Agency (DISA) provides the only dedicated Information Technology (IT) environment investing in a single end-to-end infrastructure for testing the Enterprise Edge to the Tactical Edge. As an MRTFB, Joint Interoperability Test Command (JITC) provides tested IT infrastructure products to the DoD, Federal/non-Federal Government, Commercial vendors, and Allied partners.

The DISA MRTFB infrastructure:

- Encompasses three geographic locations (Ft. Huachuca, AZ; Indian Head, MD; Ft. Meade, MD).
- Comprises 140K square feet of raised floor space and four acres of outdoor IT range space that is divided into 47 unique environments reachable through eight different communication networks.
- Complies with multiple levels of security and is scaled to support approximately 1,000 annual testing events to evaluate the DoD's converged information environment, Cyber, Cloud services, Mobility, and National Security Systems (NSS).
- Encompasses more than 200 IT systems, reference implementations, and testing tools to aid both test execution and data collection/analysis.

**B. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>
<b>Title:</b> MRTFB Improvements and Operations	55.229	56.064	56.739
<b>Description:</b> Information Technology and National Security Systems (IT/NSS), Command and Control (C2), Defense reform initiatives, and the Department of Defense's (DoD's) migration towards more agile development and acquisition of IT capabilities by providing Test and Evaluation (T&E) support, including infrastructure, testing capabilities and events, policies and processes to Regional Combatant Commands (COCOMS), Military Services, DoD Agencies, other Federal Government agencies, private industry, Coalition partners and allies.			
<b>FY 2014 Accomplishments:</b> Developed the strategies and implementation plans to evolve testing infrastructure, capabilities and services into Testing as a Service (TaaS), which will ensure repeatable, automated, selectable, consistent, and affordable services to all MRTFB customers. Supported DoD strategic initiatives by: providing the test capabilities and facilities infrastructure, process tracking and reporting systems, as well as hardware and software maintenance to enable direct test support to DoD's major IT/NSS acquisitions (e.g.,			

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Defense Information Systems Agency		<b>Date:</b> February 2015	
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / C4I Interoperability	<b>Project (Number/Name)</b> T40 / Major Range Test Facility Base Operations	
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2014</b>	<b>FY 2015</b>
<p>Joint Information Environment (JIE), Enterprise core services, Defense Enterprise Email, DoD Mobility Program, Global Combat Support System, Joint Tactical Data Links, C2, global/terrestrial/satellite/tactical communications systems). Continued efforts to provision a Joint T&amp;E Environment that meets the requirements of the entire spectrum of DoD's IT acquisition process and life cycle needs.</p> <p><b>FY 2015 Plans:</b> As an MRTFB, Joint Interoperability Test Command (JITC) will continue to provide the testing infrastructure and capabilities that are used when evaluating the Department's IT/NSS. Will continue sustainment of the infrastructure, laboratory and testing hardware/software to enable T&amp;E of a converged information environment, Cyber, Cloud services, Mobility, and NSS. Will continue to maintain technical workforce skills, support base operations, communications, automation, operating expenses at Indian Head, MD; Fort Huachuca, AZ; and Fort George G. Meade, MD.</p> <p>The increase of +\$0.835 from FY 2014 to FY 2015 is due to FY 2014 Budget Control Act reductions from the Budget Control Act, resulting in reduced infrastructure updates and replacements.</p> <p><b>FY 2016 Plans:</b> As an MRTFB, JITC operates the DISA IT test infrastructure. JITC will standardize testbed infrastructure at Fort George G. Meade, MD; Fort Huachuca, AZ; and Indian Head, MD and leverages cloud technologies to provide seamless distributed testing services and efficient use of testing equipment and resources for use across the Agency and the Department. The expanded use of automation, virtualization, and access to big data will enable the reduction of the MRTFB IT footprint. Will continue to maintain technical workforce skills, support base operations, communications, automation, operating expenses at each location.</p> <p>The increase of +\$0.675 from FY 2015 to FY 2016 is due to infrastructure renewal and replacement.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>		55.229	56.064
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A			
<b>Remarks</b>			
<b>D. Acquisition Strategy</b> A T&E Mission Support Services (MSS) cost plus and firm fixed price contract provides T&E support by performing a wide range of non-personal services to encompass testing, scientific, engineering, logistic, administrative, and ancillary support of the DISA T&E missions. The T&E MSS contract provides maximum flexibility and allow for expansion and contraction of staff years as workload dictates. An additional contract is a Federal Preferential Sole Source Procurement set-aside which provides consolidated facilities support.			

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 Defense Information Systems Agency		<b>Date:</b> February 2015
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / <i>C4I Interoperability</i>	<b>Project (Number/Name)</b> T40 / <i>Major Range Test Facility Base Operations</i>
<b>E. Performance Metrics</b> <p>Metrics include: Percentage of time T&amp;E networks service capabilities are available to support core mission areas, with a target availability rate of 98%. Beginning in FY15, JITC will monitor the percentage of all T&amp;E services provided through one or more of their DISA TaaS catalog offerings. JITC will also establish the ability to scale based on customer demand signal, on an annual basis at first, and gain more efficiencies over time scaling twice annually, and ultimately quarterly. Target customer fulfillment rate is 100%. Future metrics will also begin to capture elements of the aging MRTFB infrastructure and its ability to support the Department by measuring the availability of T&amp;E network infrastructure with a target availability rate of 99%.</p>		

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Defense Information Systems Agency												Date: February 2015			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 0208045K / C4I Interoperability				Project (Number/Name) T40 / Major Range Test Facility Base Operations					
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation 1	C/T&M	Northrop Grumman Mission System : Ft. Huachuca, AZ	75.279	-		-		-		-		-	-	75.279	75.279
Test and Evaluation 2	C/T&M	Interop Joint Venture : Ft. Huachuca, AZ	99.188	-		-		-		-		-	-	99.188	99.188
Test and Evaluation 3	C/T&M	Northrop Grumman Information Technology : Ft. Huachuca, AZ	49.746	-		-		-		-		-	-	49.746	49.746
Test and Evaluation 4	C/Various	VARIOUS - pending development of query : VARIOUS	18.240	17.703	Oct 2013	18.538	Oct 2014	-		-		-	Continuing	Continuing	Continuing
Test and Evaluation 5	Option/CPFF	ALION SCIENCE & TECHNOLOGY CORP : Various	-	-		-		0.218	Oct 2015	-		0.218	Continuing	Continuing	Continuing
Test and Evaluation 6	Option/CPFF	AMERICAN SYSTEMS COPR : Various	-	-		-		0.551	Oct 2015	-		0.551	Continuing	Continuing	Continuing
Test and Evaluation 7	Option/CPFF	MANTECH TELECOMMUNICATIONS AND INFORMATION : Various	-	-		-		3.502	Oct 2015	-		3.502	Continuing	Continuing	Continuing
Test and Evaluation 8	Option/CPFF	OBERON ASSOCIATES : Various	-	-		-		5.297	Oct 2015	-		5.297	Continuing	Continuing	Continuing
Test and Evaluation 9	Option/CPFF	TASC, INC. : Various	-	-		-		1.397	Oct 2015	-		1.397	Continuing	Continuing	Continuing
Test and Evaluation 10	Option/CPFF	BEACON GROUP SW, INC : Various	-	-		-		8.614	Oct 2015	-		8.614	Continuing	Continuing	Continuing
Test and Evaluation 11	Option/CPFF	Multiple : Various	-	-		-		9.178	Oct 2015	-		9.178	Continuing	Continuing	Continuing
Subtotal			242.453	17.703		18.538		28.757		-		28.757	-	-	-



**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Defense Information Systems Agency												Date: February 2015			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 0208045K / C4I Interoperability				Project (Number/Name) T40 / Major Range Test Facility Base Operations					
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Services	Various	Defense Information Systems Agency : Ft. Huachuca, AZ	126.227	37.526	Oct 2013	37.526	Oct 2014	27.982	Oct 2015	-		27.982	Continuing	Continuing	Continuing
Subtotal			126.227	37.526		37.526		27.982		-		27.982	-	-	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			368.680	55.229		56.064		56.739		-		56.739	-	-	-
Remarks															

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2016 Defense Information Systems Agency										Date: February 2015			
Appropriation/Budget Activity					R-1 Program Element (Number/Name)					Project (Number/Name)			
0400 / 7					PE 0208045K / C4I Interoperability					T40 / Major Range Test Facility Base Operations			

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Develop and Implement Interoperability test systems to support warfighters																												

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2016 Defense Information Systems Agency			<b>Date:</b> February 2015
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / <i>C4I Interoperability</i>	<b>Project (Number/Name)</b> T40 / <i>Major Range Test Facility Base Operations</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Develop and Implement Interoperability test systems to support warfighters	1	2014	4	2020