

**UNCLASSIFIED**

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2024 Defense Information Systems Agency **Date:** March 2023

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / <i>C4I Interoperability</i>
--	---

COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	21.516	60.883	69.636	66.152	-	66.152	66.300	75.821	76.204	77.727	Continuing	Continuing
T-30: <i>MRTFB Test and Evaluation</i>	21.516	7.312	2.154	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
T-40: <i>Major Range Test Facility Base Operations</i>	0.000	53.571	67.482	66.152	-	66.152	66.300	75.821	76.204	77.727	Continuing	Continuing

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

The Defense Information Systems Agency's (DISA) Joint Interoperability Test Command (JITC) serves as the only joint element of the Department of Defense's (DoD) Major Range and Test Facility Base (MRTFB) that operates 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). JITC is the DoD's Sole Interoperability Certifier and the only Non-Service Operational Test Agency in the DoD.

Interoperability is vital to the DoD's success as it allows forces, units and/or systems of military services, and U.S. partners to share data, information, materiel, and services required to operate collaboratively. Operational testing addresses critical issues of a system's effectiveness in combat-like environments. Additionally, operational testing provides decision makers an independent evaluation to better understand the risks and capabilities of a system's effectiveness, suitability, and cyber-security before fielding to the warfighters.

JITC's T&E efforts determine the degree to which the DoD is fielding interoperable, operationally effective, suitable, and cyber survivable joint warfighting capabilities to achieve DoD's goal of information superiority. JITC has the unique mission to provide consistent, structured, and effective T&E services that include operational, joint interoperability, and Test, Evaluation, and Certification (TE&C). JITC evaluates conformance to applicable Military Standards and technical specifications and performs Cyber T&E of DoD IT and NSS (including Cloud services and Mobility).

JITC is responsible for:

- Evaluating DoD IT/NSS for Joint/Coalition (involving two or more US military services and/or partner nations) interoperability
- Issuing Joint Interoperability Certifications and Assessments
- Conducting operational evaluations
- Maintaining a federated IT infrastructure which provides a shared ruleset for how networks interact (a MRTFB activity)
- Providing interoperability mission support to warfighters to enable effective communication and operations between US military services and other foreign nations

**UNCLASSIFIED**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2024 Defense Information Systems Agency	<b>Date:</b> March 2023
---	-------------------------

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide</i> / BA 6: <i>RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / <i>C4I Interoperability</i>
--	---

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	60.883	69.698	65.150	-	65.150
Current President's Budget	60.883	69.636	66.152	-	66.152
Total Adjustments	0.000	-0.062	1.002	-	1.002
• Congressional General Reductions	-	-0.062			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	0.000	1.002	-	1.002

**Change Summary Explanation**

The increase in FY 2024 is due to the evolving customer accessibility through enhanced T&E capabilities by integrating DevSecOps, employing automation technologies for cloud testing services, increasing cybersecurity survivability testing services, and expanding the occurrence of value-added Joint Interoperability Testing across the Service Test Agencies and Enterprise.

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2024 Defense Information Systems Agency **Date:** March 2023

<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / C4I Interoperability	<b>Project (Number/Name)</b> T-30 / MRTFB Test and Evaluation
--	--	--

COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
T-30: MRTFB Test and Evaluation	21.516	7.312	2.154	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The DISA, through JITC, manages the Department’s Joint Interoperability TE&C process structured to provide meaningful and independent test results. The TE&C process increases stakeholder confidence that capabilities fielded to the warfighter meet mission needs.

In support of JITC’s mission, this project provides strategy development and investments to maintain, operate, and improve joint interoperability T&E services by:

- Integrating evolving technologies that leverage efficiencies such as virtualization, enterprise elements, and the foundational Cyber assets mandated by the DoD’s Digital Modernization Strategy (DMS). The DMS is a DoD-wide IT infrastructure, system, and services modernization and optimization effort.
- Expanding test infrastructure and operations to allow for rapid, on-demand provisioning across the DoD and Cyber integration with enterprise environments.
- Designing consistent, repeatable test methodologies to ensure efficient T&E for changing or emerging technologies.
- Providing T&E guidance to DISA programs, creating synergy and efficiencies across the DISA IT portfolio, and gaining insight on new technologies and commercial best practices.

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

	FY 2022	FY 2023	FY 2024
<b>Title:</b> DoD’s Joint Interoperability Certification Authority	0.873	1.074	-
<b>Description:</b> This project plans and executes joint interoperability certifications for DoD IT/NSS by evaluating Joint Staff certified requirements and standards through participation in developmental, operational, and interoperability test events.			
<b>FY 2023 Plans:</b>			
<ul style="list-style-type: none"> <li>• Evolve customer accessibility through enhanced T&amp;E capabilities by employing automation technologies for cloud testing services to expand cybersecurity survivability testing services.</li> <li>• Reduce risk and identify/analyze trends by employing new technology and methodology to conduct data analysis in the operational environment.</li> </ul>			
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b>			
The decrease from FY 2023 to FY 2024 due to realignment of T-30 (MRTFB Test and Evaluation) funding and mission to T-40 (Major Range Test Facility Base Operations) to consolidate PE0208045K in one project for more efficient financial management.			
<b>Title:</b> Operational Test and Evaluation (OT&E)	6.368	0.999	-

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Defense Information Systems Agency		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / C4I Interoperability	<b>Project (Number/Name)</b> T-30 / MRTFB Test and Evaluation

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b>Description:</b> This project conducts operational testing of IT/NSS under realistic operational conditions to determine the operational effectiveness, suitability, interoperability, and security of a particular system. Additionally, this project independently assesses the operational impact of system issues on mission accomplishment.</p> <p><b>FY 2023 Plans:</b> Key FY 2023 efforts include:</p> <ul style="list-style-type: none"> <li>• Enhancements on OT&amp;E processes, procedures, and tools by increasing automation and utilizing virtualization to better evaluate performance and to improve operational testing capabilities.</li> <li>• Piloting the utilization of cyber tools early in a programs life cycle to buy down cyber risks and vulnerabilities typically found in the field. This is crucial because risks and vulnerabilities are very costly to fix after development.</li> <li>• Provide OT&amp;E support. Critical capabilities provided includes identity management, enhanced crypto, electronic health</li> </ul> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> The decrease from FY 2023 to FY 2024 due to realignment of T-30 (MRTFB Test and Evaluation) funding and mission to T-40 (Major Range Test Facility Base Operations) to consolidate PE0208045k in one project for more efficient financial management.</p>			
<p><b>Title:</b> Support to Warfighter</p> <p><b>Description:</b> Providing pre/post-production evaluations including collecting relevant data during continuous monitoring efforts, on-the-spot evaluations of problem areas, and viable mission-oriented solutions to warfighting COCOMs during exercises and contingency operations.</p> <p><b>FY 2023 Plans:</b> Continue to focus on the Geographic Combatant Commands and their regional partners consistent with the National Defense Strategy (NDS). Will sustain a Warfighter Support capability sufficient to respond to critical fielded system interoperability issues.</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> The decrease from FY 2023 to FY 2024 is due to realignment of T-30 (MRTFB Test and Evaluation) funding and mission to T-40 (Major Range Test Facility Base Operations) to consolidate PE0208045K in one project for more efficient financial management.</p>	0.071	0.081	-
<b>Accomplishments/Planned Programs Subtotals</b>	7.312	2.154	-

**C. Other Program Funding Summary (\$ in Millions)**

N/A

**Remarks**

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2024 Defense Information Systems Agency **Date:** March 2023

<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / <i>C4I Interoperability</i>	<b>Project (Number/Name)</b> T-30 / <i>MRTFB Test and Evaluation</i>
--	---	---

**D. Acquisition Strategy**

Test, Evaluation, and Certification (TECII) indefinite delivery/indefinite quantity contract provides T&E support by performing a wide range of non-personal services to encompass testing, scientific, engineering, administrative, and ancillary support of the DISA T&E missions. The TECII contract provides for expansion and contraction of staff years as workload dictates.

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Defense Information Systems Agency										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 0400 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0208045K / C4I Interoperability				<b>Project (Number/Name)</b> T-40 / Major Range Test Facility Base Operations			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
T-40: Major Range Test Facility Base Operations	0.000	53.571	67.482	66.152	-	66.152	66.300	75.821	76.204	77.727	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

For FY2024 and out years, T-30 MRTFB Test and Evaluation funding and mission are realigned to T-40 Major Range Test Facility Base Operations. This exhibit includes the combined T-30 and T-40 mission descriptions.

The DISA, through JITC, manages the Department’s Joint Interoperability TE&C process structured to provide meaningful and independent test results. The TE&C process increases stakeholder confidence that capabilities fielded to the warfighter meet mission needs. The T&E activities target evaluation strategies in the design, development, operational, integration and/or sustainment aspects of every program supported. JITC’s T&E efforts span a variety of test categories supporting Department-wide enterprise solutions. JITC’s T&E efforts also support Services, Agencies, and mission partners developmental, operational, cyber and interoperability testing, evaluation, and certification efforts. These efforts focus on T&E for IT to include the Digital Modernization Strategy (DMS), Cyber, Cloud services, and Mobility. Integrated application of JITC’s T&E services enables the Joint Force to gain and maintain information superiority in support of the National Defense Strategy (NDS).

As the DoD Joint Interoperability Certification Authority, JITC annually:

- Ensures interoperability test, evaluation, and certification standard practices and procedures are in accordance with DoD policy.
- Evaluates DoD’s IT/NSS for joint interoperability and issues Joint interoperability certifications and assessments.
- Manages the scheduling and executes interoperability test events. These events evaluate, certify, and re-certify Service/Agency systems.
- Reviews Joint Capabilities Integration and Development System documents, interoperability support plans, and interoperability policy waivers on behalf of the DoD Chief Information Officer (CIO) and the Joint Staff. These reviews ensure compliance with DoD interoperability testing policy and requirements.
- Serves as executive agent to DoD’s Interoperability Steering Group, in support of the DoD CIO, and uses forum to coordinate policy, adjudicate issues, and to process Interim Certificates to Operate.

JITC made significant strides in updating test and evaluation methodology to support new acquisition pathways resulting in increased integrated testing, conducting smaller events, and informing decision makers more often. This enables releasing capabilities to the warfighter more efficiently. On 4 OCT 2022, the Operational Test Agency (OTAs) for the military services and JITC jointly released an “Operational Test Agencies Six Core Test Principles” to encourage early engagement, increased agility, and flexibility to support continuous evaluations for programs and improved support for agile acquisition.

As the only non-Service OTA within DoD, JITC annually:

- Conducts operational testing of IT/NSS under realistic conditions to determine the operational effectiveness, suitability, interoperability, and cyber survivability. Additionally, JITC independently assesses the operational

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Defense Information Systems Agency		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / <i>C4I Interoperability</i>	<b>Project (Number/Name)</b> T-40 / <i>Major Range Test Facility Base Operations</i>
<p>impact of system issues on mission accomplishment.</p> <ul style="list-style-type: none"><li>• Serves as the OTA for DISA-managed programs, and upon request, serves as the OTA for other Agencies such as the Defense Logistics Agency, Department of Homeland Security, Defense Health Agency, Defense Counterintelligence and Security Agency, and the National Security Agency.</li></ul> <p>In direct support of the Warfighter, JITC participates in Joint, Coalition, and Allied operations in exercises designed to evaluate Joint, Coalition and Allied capabilities in, or planned to deploy to theater, by:</p> <ul style="list-style-type: none"><li>• Providing on-demand rapid response contingency support to Regional Combatant Commands (COCOMs) and conducting assessments during interoperability exercises.</li><li>• Maintaining a 24x7 Warfighter Command, Control, Communications, and Intelligence (C4I) Interoperability Hotline that connects warfighters to subject matter experts to resolve IT interoperability challenges.</li><li>• Establishing the framework for annual independent evaluations to determine the status of interoperability through the DoD Interoperability Communications Exercise (DICE). The DICE emulates a distributed Joint Task Force - which includes first responder, local, and federal communications networks - providing realism and operational significance during assessments and evaluations of data integrity, interfacing, and responsiveness coupled with efficient configuration tactics, techniques, and procedures.</li></ul> <p>JITC provides strategy development and investments to maintain, operate, and improve joint interoperability certification, operational, and warfighter T&amp;E services by:</p> <ul style="list-style-type: none"><li>• Integrating evolving processes and technologies that leverage efficiencies such as DevSecOps (a development practice that integrates security initiatives at every stage of the software development lifecycle to deliver robust and secure applications), virtualization, enterprise elements, and the foundational Cyber assets mandated by the DMS.</li><li>• Expanding test infrastructure and operations to enable rapid, on-demand provisioning across the DoD and Cyber integration with enterprise environments.</li><li>• Designing consistent, repeatable test methodologies to ensure efficient T&amp;E for changing or emerging technologies.</li><li>• Providing T&amp;E guidance/oversight to DISA programs, creating synergy and efficiencies across the DISA IT portfolio, and gaining insight in new technologies and commercial best practices.</li></ul> <p>As the only non-Service activity of the DoD Major Range and Test Facility Base (MRTFB), DISA provides a dedicated IT testing environment for a single end-to-end infrastructure. As an MRTFB, JITC provides tested IT infrastructure products to the DoD, Federal/non-Federal Government, Commercial vendors, and Allied partners. The DISA MRTFB:</p> <ul style="list-style-type: none"><li>• Encompasses two geographic locations (Ft. Huachuca, AZ; Ft. Meade, MD) and covers 116K square feet of raised floor space comprised of multiple test environments and test networks supporting over 100 programs on an annual basis.</li><li>• Evolves technologies that leverage efficiencies such as virtualization, IaaS, PaaS, and the foundational Cyber resources. These resources expand test infrastructure and operations to allow rapid, on-demand provisioning, and federation across the DoD and Cyber integration with enterprise environments.</li></ul>		

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Defense Information Systems Agency		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / C4I Interoperability	<b>Project (Number/Name)</b> T-40 / Major Range Test Facility Base Operations

- Complies multiple levels of security and supports approximately 1,000 annual testing events to evaluate the DoD's converged information environment, Cyber, Cloud services, Mobility, and NSS.
- Includes a significant portfolio of reference implementations, test tools, and supporting IT systems to aid both test execution and data collection/analysis.

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b>Title:</b> MRTFB Test, Evaluation and Operations</p> <p><b>Description:</b> Interoperability (IOP) - Plans and executes Joint Interoperability Certifications for DoD's IT/NSS by evaluating Joint Staff certified Net-Ready requirements for conformance to standards. This is completed through participation in developmental and/or operational testing and/or executing purposefully planned Interoperability TE&amp;C.</p> <p>Operational Test &amp; Evaluation (OT&amp;E) - Conducts operational testing of IT/NSS under realistic operational conditions to determine the operational effectiveness, suitability, interoperability, and cyber survivability of a particular system. Independently assesses the operational and suitability impact of system issues on mission accomplishment.</p> <p>Warfighter Support - Provides pre/post-production evaluations including collecting relevant data during a continuous monitoring effort. Additionally, this provides on-the-spot evaluations of problem areas and viable mission-oriented solutions to warfighting COCOMs during exercises and contingency operations.</p> <p>Major Range and Test Facility Base (MRTFB) - Maintains IT/NSS, Command and Control (C2), Defense reform initiatives, and the DoD's migration towards more agile development and acquisition of IT capabilities. This provides T&amp;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.</p> <p><b>FY 2023 Plans:</b> MRTFB - As an MRTFB, JITC will operate and sustain the DISA IT Test infrastructure standardized test bed at Fort George G. Meade, MD and Fort Huachuca, AZ. JITC will support the Agency and the Department with the use of cloud technologies to provide seamless distributed testing services and expand/modernize test automation and equipment. JITC will maintain a technical workforce, support base operations, communications, and operating expenses at each location.</p> <p><b>FY 2024 Plans:</b> IOP –</p> <ul style="list-style-type: none"> <li>• Continue to evolve customer accessibility through enhanced T&amp;E capabilities by integrating DevSecOps, employing automation technologies for cloud testing services, increasing cybersecurity survivability testing services, and expanding the occurrence of value-added Joint Interoperability Testing across the Service Test Agencies and Enterprise.</li> <li>• Persist with risk reduction and identify/analyze trends by employing new technology and methodology to conduct data analysis in the operational environment.</li> </ul>	53.571	67.482	66.152

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Defense Information Systems Agency		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / C4I Interoperability	<b>Project (Number/Name)</b> T-40 / Major Range Test Facility Base Operations

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<p><b>OT&amp;E –</b></p> <ul style="list-style-type: none"> <li>• Continue to enhance OT&amp;E processes, procedures, tools and leverage new acquisition pathways such as the software acquisition pathway to better support the release of capabilities to the warfighter. Increase automation and utilize virtualization to better evaluate performance and improve operational testing capabilities for evolving requirements.</li> <li>• Provide OT&amp;E support to COCOMs, Military Services, and Defense Agencies as requested. Key initiatives will include testing support to the Defense Health Agency for electronic health records, enhanced crypto and identity management for National Security Agency, and continuous vetting and trusted workforce for the Defense Counterintelligence and Security Agency</li> </ul> <p><b>Warfighter Support –</b></p> <ul style="list-style-type: none"> <li>• Sustain Warfighter Support capability sufficient to respond to critical fielded system interoperability issues. Provide secure testing capabilities, and accelerating capability delivery to warfighters through modernized infrastructure, state of the art cyber expertise, and innovative TE&amp;C services that capitalize on cutting edge technologies, platforms, and frameworks.</li> <li>• Maintain focus primarily on the Geographic Combatant Commands and their regional partners consistent with the National Defense Strategy</li> </ul> <p><b>MRTFB –</b></p> <ul style="list-style-type: none"> <li>• Operate and maintain the DISA IT Test infrastructure standardized test bed at Fort George G. Meade, MD and Fort Huachuca, AZ. JITC will support the Agency and the Department by reducing the need for manual processes in support of cloud technologies to provide seamless distributed testing services and expand/modernize test automation and equipment.</li> <li>• JITC will maintain a technical workforce, support base operations, communications, and operating expenses at each location.</li> </ul> <p><b><i>FY 2023 to FY 2024 Increase/Decrease Statement:</i></b> The decrease of -\$1.330 in FY 2023 to FY 2024 reflects prior year one-time increase supporting JITC MILCON Fitting Out Costs. FY 2024 funding includes the realignment \$2.154 from T30 project to T40 project.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	53.571	67.482	66.152

<b>C. Other Program Funding Summary (\$ in Millions)</b>
N/A
<b>Remarks</b>

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Defense Information Systems Agency		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 0400 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0208045K / <i>C4I Interoperability</i>	<b>Project (Number/Name)</b> T-40 / <i>Major Range Test Facility Base Operations</i>

**D. Acquisition Strategy**

Test, Evaluation, and Certification (TECII) indefinite delivery/indefinite quantity 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 TECII contract provides 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.