Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Defense Information Systems Agency										Date: March 2019	

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

COST ($ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	750.929	58.235	62.814	64.122	-	64.122	62.364	61.644	63.201	63.840	Continuing	Continuing
T30: *MRTFB Test and Evaluation*	174.304	10.757	7.809	7.584	-	7.584	7.713	7.712	7.927	7.964	Continuing	Continuing
T40: *Major Range Test Facility Base Operations*	576.625	47.478	55.005	56.538	-	56.538	54.651	53.932	55.274	55.876	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. Program Change Summary ($ in Millions)

	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	59.490	62.814	61.074	-	61.074
Current President's Budget	58.235	62.814	64.122	-	64.122
Total Adjustments	-1.255	0.000	3.048	-	3.048
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.928	-			
• Adjustment	-0.327	-	3.048	-	3.048

Exhibit R-2, **RDT&E Budget Item Justification:** PB 2020 Defense Information Systems Agency		**Date:** March 2019
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0208045K *I C4I Interoperability*	

<u>**Change Summary Explanation**</u>

The decrease of -$0.928 in FY 2018 reflects a transfer of funding to Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs and -$0.327 is for the reduction costs by employing automation technologies to include cloud services to conduct testing and data analysis in the operational environment.

The increase of +$3.048 in FY 2020 will provide additional infrastructure, network bandwidth and instrumentation to support development and testing of enterprise systems and Cyber capabilities in a replicated DODIN environment (+$2.748). This increase is offset by a reduction required to offset civilian personnel requirements for departmental priorities and a transfer of 2 FTEs to the DISA Working Capital Fund in support of the Fourth Estate IT Optimization.

Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Information Systems Agency										Date: March 2019	

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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
T30: *MRTFB Test and Evaluation*	174.304	10.757	7.809	7.584	-	7.584	7.713	7.712	7.927	7.964	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 one 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.

Exhibit R-2A, **RDT&E Project Justification:** PB 2020 Defense Information Systems Agency		**Date:** March 2019
Appropriation/Budget Activity 0400 *I* 7	**R-1 Program Element (Number/Name)** PE 0208045K *I C4I Interoperability*	**Project (Number/Name)** T30 *I MRTFB Test and Evaluation*

• Establishing the framework for the conduct of annual independent evaluations and the status of interoperability through DoD Interoperability Communications Exercises (DICE).

• 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.

• Including first responder local and federal communications as part of the task force.

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.

JITC designs Operational Test and Evaluation (OT&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.

JITC focuses its efforts towards core T&E improvements, better T&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.

The T&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:

• 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.

• Expand test infrastructure and operations to allow for rapid, on-demand provisioning, and federation across the DoD and Cyber integration with enterprise environments.

• Design consistent, repeatable test methodologies that ensure efficient T&E on changing or emerging technologies.

• Provide T&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.

B. Accomplishments/Planned Programs ($ in Millions)	**FY 2018**	**FY 2019**	**FY 2020**
Title: DoD's Joint Interoperability Certification Authority	9.837	6.889	6.664
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 2019 Plans:*			

Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Information Systems Agency		Date: March 2019
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 2018	FY 2019	FY 2020
Continue to evolve customer accessibility through enhanced T&E capabilities by employing automation technologies to include cloud services. Continue to reduce risk and identify/analyze trends by employing new technology and methodology to conduct data analysis in the operational environment. *FY 2020 Plans:* Continue to evolve customer accessibility through enhanced T&E capabilities by employing automation technologies to include cloud services. Continue to reduce risk and identify/analyze trends by employing new technology and methodology to conduct data analysis in the operational environment. *FY 2019 to FY 2020 Increase/Decrease Statement:* The decrease of -$0.225 from FY 2019 to FY 2020 is due to reduced costs resulting from employing automation technologies to include cloud services to conduct testing and data analysis in the operational environment.			
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. *FY 2019 Plans:* Will continue to enhance OT&E processes, procedures, training, and tools by increasing automation, data collection and management, and better analysis utilizing virtualization to better evaluate performance and to improve operational testing capabilities for evolving requirements. Will continue to provide OT&E support to COCOMs, Military Services, and Defense Agencies as requested. *FY 2020 Plans:* Will continue to enhance OT&E processes, procedures, and tools by increasing automation and utilizing virtualization as needed, to better evaluate performance and to improve operational testing capabilities for evolving requirements. Will continue to provide OT&E support to COCOMs, Military Services, and Defense Agencies as requested. *FY 2019 to FY 2020 Increase/Decrease Statement:* N/A	0.800	0.800	0.800
Title: Support to Warfighter *Description:* 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. *FY 2019 Plans:*	0.120	0.120	0.120

Exhibit R-2A, **RDT&E Project Justification:** PB 2020 Defense Information Systems Agency		**Date:** March 2019
Appropriation/Budget Activity 0400 *I* 7	**R-1 Program Element (Number/Name)** PE 0208045K *I C4I Interoperability*	**Project (Number/Name)** T30 *I MRTFB Test and Evaluation*

B. Accomplishments/Planned Programs ($ in Millions)	**FY 2018**	**FY 2019**	**FY 2020**
Support will continue to be focused primarily on the Asia Pacific region, consistent with the National Defense Strategy. Will sustain a Warfighter Support capability sufficient to respond to critical fielded system issues only. *FY 2020 Plans:* Support will continue to be focused primarily on the Asia Pacific region, consistent with the National Defense Strategy. Will sustain a Warfighter Support capability sufficient to respond to critical fielded system issues only. *FY 2019 to FY 2020 Increase/Decrease Statement:* N/A			
Accomplishments/Planned Programs Subtotals	10.757	7.809	7.584

C. Other Program Funding Summary ($ in Millions)
 N/A
Remarks

D. Acquisition Strategy

 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.

E. Performance Metrics

 JITC manages the Department's Joint Interoperability Test, Evaluation, and Certification process and Operational testing for Information Technology (IT)/National Security Systems (NSS) as well as test and evaluation activities for DISA's deliverables ensuring they have met operational requirements. JITC develops test and evaluation strategies, plan, and reports in the design, development, operational, integration and/or sustainment aspects of every program requiring support. Specific metrics are described below:

 1. Metric: Provide operational test plans prior to the start date of a test for all customers where JITC is the OTA.
 Measure/Goal: 90%
 FY18 Actual: 100%
 FY19 Target: 90%
 FY20 Target: 90%

 2. Metric: Provide operational test reports no later than 60 days after the completion of a test event when JITC is the responsible OTA.
 Measure/Goal: 90%
 FY18 Actual: 66%

Exhibit R-2A, **RDT&E Project Justification:** PB 2020 Defense Information Systems Agency		**Date:** March 2019
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0208045K / C4I Interoperability	**Project (Number/Name)** T30 / MRTFB Test and Evaluation

FY19 Target: 90%
FY20 Target: 90%

3. Provide a interoperability certification letter to customers (Joint Staff (JS), COCOMS, OUSD (R&E), etc) no later than 60 days from the completion of the test event/effort.
Measure/Goal: 80%
FY18 Actual: 83%
FY19 Target: 80%
FY20Target: 80%

4. JITC surveys customers for each product that is delivered (Plan of Action and Milestones (POA&Ms), Test Plans, Test Reports, etc.) in terms of cost, schedule, and overall performance on a 1-5 scale with 5 being the highest rating.
Measure/Goal: 4.5
FY18 Actual: 4.8
FY19 Target: 4.5
FY20 Target: N/A no longer reported on after FY19

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2020 Defense Information Systems Agency			**Date:** March 2019

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

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018 Cost	FY 2018 Award Date	FY 2019 Cost	FY 2019 Award Date	FY 2020 Base Cost	FY 2020 Base Award Date	FY 2020 OCO Cost	FY 2020 OCO Award Date	FY 2020 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	C/T&M	Northop Grumman Mission System : FT Huachuca, AZ	36.487	-		-		-		-		-	0.000	36.487	-
Test and Evaluation	C/T&M	Interop Joint Venture : FT Huachuca, AZ	44.342	-		-		-		-		-	0.000	44.342	-
Test and Evaluation	C/T&M	Northop Grumman Technology : FT Huachuca, AZ	25.831	-		-		-		-		-	0.000	25.831	-
Test and Evaluation	C/Various	Various : Various	15.076	-		-		1.529	Oct 2019	-		1.529	Continuing	Continuing	-
Test and Evaluation	Option/ CPFF	ALION SCIENCE & TECH CORP : Various	0.008	0.018	Oct 2017	0.010	Oct 2018	-		-		-	0.000	0.036	-
Test and Evaluation	Option/ CPFF	AMERICAN SYSTEMS CORP : Various	0.129	0.217	Oct 2017	0.080	Oct 2018	-		-		-	0.000	0.426	-
Test and Evaluation	Option/ CPFF	MANTECH TELECOMMUNICATIONS AND INFORMATION : Various	0.570	0.838	Oct 2017	0.305	Oct 2018	-		-		-	0.000	1.713	-
Test and Evaluation	Option/ CPFF	OBERON ASSOCIATES : Various	0.109	0.176	Oct 2017	0.072	Oct 2018	-		-		-	0.000	0.357	-
Test and Evaluation	Option/ CPFF	TASC, INC : Various	1.887	3.223	Oct 2017	1.132	Oct 2018	-		-		-	0.000	6.242	-
Subtotal			124.439	4.472		1.599		1.529		-		1.529	Continuing	Continuing	N/A

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2020 Defense Information Systems Agency		**Date:** March 2019
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 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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**
Managment Services	C/Various	Defense Information Systems Agency : Various	49.865	6.285	Oct 2017	6.210	Oct 2018	6.055	Oct 2019	-		6.055	Continuing	Continuing	-
		Subtotal	49.865	6.285		6.210		6.055		-		6.055	Continuing	Continuing	N/A

			Prior Years	**FY 2018**		**FY 2019**		**FY 2020 Base**		**FY 2020 OCO**		**FY 2020 Total**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
		Project Cost Totals	174.304	10.757		7.809		7.584		-		7.584	Continuing	Continuing	N/A

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2020 Defense Information Systems Agency		**Date:** March 2019
Appropriation/Budget Activity 0400 *I* 7	**R-1 Program Element (Number/Name)** PE 0208045K *I* C4I Interoperability	**Project (Number/Name)** T30 *I MRTFB Test and Evaluation*

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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
MRTFB Test and Evalauation																												
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 Link (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)																										■	■	

	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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
MRTFB Test and Evalauation																												
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 Link (TDL)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Operate 24/7 Interoperability Hotline	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Provide Joint/Combined Interoperability Test support to Combatant Commanders	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Exhibit R-4, **RDT&E Schedule Profile:** PB 2020 Defense Information Systems Agency		**Date:** March 2019
Appropriation/Budget Activity 0400 *I* 7	**R-1 Program Element (Number/Name)** PE 0208045K *I C4I Interoperability*	**Project (Number/Name)** T30 *I MRTFB Test and Evaluation*

	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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
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)																												

PE 0208045K: *C4I Interoperability*
Defense Information Systems Agency

R-1 Line #204

Exhibit R-4A, **RDT&E Schedule Details:** PB 2020 Defense Information Systems Agency		**Date:** March 2019
Appropriation/Budget Activity 0400 *I* 7	**R-1 Program Element (Number/Name)** PE 0208045K *I C4I Interoperability*	**Project (Number/Name)** T30 *I MRTFB Test and Evaluation*

Schedule Details

Events by Sub Project	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
MRTFB Test and Evalauation				
Provide Operational Test & Evaluation (OT&E) of DISA acquired systems	1	2017	4	2024
Conduct Joint interoperability test and certification on IT/NSS using the Joint Family of Tactical Data Link (TDL)	1	2017	4	2024
Operate 24/7 Interoperability Hotline	1	2017	4	2024
Provide Joint/Combined Interoperability Test support to Combatant Commanders	2	2017	4	2024
Provide JIE Compliance Test and Evaluation framework and infrastructure	1	2017	4	2024
Provide Cyberspace Test and Evaluation framework and infrastructure	1	2017	4	2024
Plan and conduct the Defense Interoperability Communications Exercise (DICE)	3	2017	1	2024

Exhibit R-2A, RDT&E Project Justification: PB 2020 Defense Information Systems Agency										Date: March 2019	
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
T40: *Major Range Test Facility Base Operations*	576.625	47.478	55.005	56.538	-	56.538	54.651	53.932	55.274	55.876	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 two geographic locations (Ft. Huachuca, AZ; Ft. Meade, MD).

• 116K square feet of raised floor space comprised of multiple test environments and test networks supporting over 100 programs on an annual basis.

• 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 a significant portfolio of reference implementations, test tools, and supporting IT systems to aid both test execution and data collection/analysis.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2018	FY 2019	FY 2020
Title: MRTFB Improvements and Operations	47.478	55.005	56.538
Description: 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. *FY 2019 Plans:* As an MRTFB, JITC will continue to operate the DISA IT Test infrastructure standarized test bed at Fort George G. Meade, MD and Fort Huachuca, AZ. JITC will continue to support the Agency and the Department by expanding the use of cloud technologies			

Exhibit R-2A, **RDT&E Project Justification:** PB 2020 Defense Information Systems Agency		**Date:** March 2019
Appropriation/Budget Activity 0400 *I* 7	**R-1 Program Element (Number/Name)** PE 0208045K *I C4I Interoperability*	**Project (Number/Name)** T40 *I Major Range Test Facility Base Operations*

B. Accomplishments/Planned Programs ($ in Millions)	**FY 2018**	**FY 2019**	**FY 2020**
to provide seamless distributed testing services and efficient use of testing equipment and resources. JITC will continue to maintain technical workforce, support base operations, communications, and operating expenses at each location. *FY 2020 Plans:* As an MRTFB, JITC will continue to operate the DISA IT Test infrastructure standarized test bed at Fort George G. Meade, MD and Fort Huachuca, AZ. JITC will continue to support the Agency and the Department by expanding the use of cloud technologies to provide seamless distributed testing services and efficient use of testing equipment and resources. JITC will continue to maintain technical workforce, support base operations, communications, and operating expenses at each location. *FY 2019 to FY 2020 Increase/Decrease Statement:* The increase of +$1.533 from FY 2019 to FY 2020 will provide additonal infrastructure, network bandwidth and instrumentation to support development and testing of enterprise systems and Cyber capabilities in a replicated DODIN environment.			
Accomplishments/Planned Programs Subtotals	47.478	55.005	56.538

C. Other Program Funding Summary ($ in Millions)

 N/A

Remarks

D. Acquisition Strategy

 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.

E. Performance Metrics

 Major Range Test Facility Base (MRTFB) Operations sustain the infrastructure, capabilities and services of DISA's MRTFB. While maintaining a focus on improving automation, instrumentation and virtualization, this MRTFB is working toward ensuring assets support customers with testing on demand services to enable rapid delivery of enhanced military capabilities. Specific metrics are described below:

 5. Provide configuration changes to the MRTFB infrastructure NLT 5 days after formal customer service request received.
 Measure/Goal: 90%
 FY 2018 Actual: 91%
 FY 2019 Target: 95%
 FY 2020 Target: 90%

Exhibit R-2A, **RDT&E Project Justification:** PB 2020 Defense Information Systems Agency		**Date:** March 2019
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*

6. Complete new configuration additions (equipment installs) NLT 14 days after receipt of customer requirements form.
Measure/Goal: 90%
FY 2018 Actual: 50%
FY 2019 Target: 95%
FY 2020 Target: 90%

7. Availability of enterprise service test capabilities T&E enclave.
Measure/Goal: 95%
FY 2018 Actual: 100%
FY 2019 Target: 95%
FY 2020 Target: 95%

8. Availability of the Tactical Data Link Standard Conformance test tool to various DoD platforms (e.g., weapons systems).
Measure/Goal: 100%
FY 2018 Actual: 95%
FY 2019 Target: 95%
FY 2020 Target: 95%

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Defense Information Systems Agency													Date: March 2019	
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)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018 Cost	FY 2018 Award Date	FY 2019 Cost	FY 2019 Award Date	FY 2020 Base Cost	FY 2020 Base Award Date	FY 2020 OCO Cost	FY 2020 OCO Award Date	FY 2020 Total 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	-		-		-		-		-	0.000	75.279	-
Test and Evaluation 2	C/T&M	Interop Joint Venture : Ft. Huachuca, AZ	99.188	-		-		-		-		-	0.000	99.188	-
Test and Evaluation 3	C/T&M	Northrop Grumman Information Technology : Ft. Huachuca, AZ	49.746	-		-		-		-		-	0.000	49.746	-
Test and Evaluation 4	C/Various	VARIOUS - pending development of query : VARIOUS	54.481	-		-		-		-		-	0.000	54.481	-
Test and Evaluation 5	Option/CPFF	ALION SCIENCE & TECHNOLOGY CORP : Various	0.410	0.207	Oct 2017	-		-		-		-	0.000	0.617	-
Test and Evaluation 6	Option/CPFF	AMERICAN SYSTEMS COPR : Various	1.036	0.523	Oct 2017	-		-		-		-	0.000	1.559	-
Test and Evaluation 7	Option/CPFF	MANTECH TELECOMMUNICATIONS AND INFORMATION : Various	6.583	3.320	Oct 2017	-		-		-		-	0.000	9.903	-
Test and Evaluation 8	Option/CPFF	OBERON ASSOCIATES : Various	9.957	3.023	Oct 2017	-		-		-		-	0.000	12.980	-
Test and Evaluation 9	Option/CPFF	TASC, INC. : Various	2.626	1.325	Oct 2017	-		-		-		-	0.000	3.951	-
Test and Evaluation 10	Option/CPFF	BEACON GROUP SW, INC : Various	16.193	5.170	Oct 2017	7.711	Oct 2018	-		-		-	0.000	29.074	-
Test and Evaluation 11	Option/CPFF	Multiple : Various	-	-		13.001	Oct 2018	30.226	Oct 2019	-		30.226	Continuing	Continuing	Continuing
Test and Evaluation 12	C/CPFF	Various : Various	16.728	8.658	Oct 2017	8.961	Oct 2018	-		-		-	0.000	34.347	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Defense Information Systems Agency		Date: March 2019

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)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			332.227	22.226		29.673		30.226		-		30.226	Continuing	Continuing	N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Management Services	Various	Defense Information Systems Agency : Ft. Huachuca, AZ	244.398	25.252	Oct 2017	25.332	Oct 2018	26.312	Oct 2019	-		26.312	Continuing	Continuing	Continuing
Subtotal			244.398	25.252		25.332		26.312		-		26.312	Continuing	Continuing	N/A

	Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	576.625	47.478		55.005		56.538		-		56.538	Continuing	Continuing	N/A

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2020 Defense Information Systems Agency		**Date:** March 2019
Appropriation/Budget Activity 0400 *I* 7	**R-1 Program Element (Number/Name)** PE 0208045K *I* C4I Interoperability	**Project (Number/Name)** T40 *I Major Range Test Facility Base Operations*

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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																											███	███

	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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	███	███	███	███	███	███	███	███	███	███	███	███	███	███	███	███	███	███	███	███	███	███	███	███	███	███	███	███

Exhibit R-4A, **RDT&E Schedule Details:** PB 2020 Defense Information Systems Agency		**Date:** March 2019
Appropriation/Budget Activity 0400 *I* 7	**R-1 Program Element (Number/Name)** PE 0208045K *I* *C4I Interoperability*	**Project (Number/Name)** T40 *I* *Major Range Test Facility Base Operations*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Develop and Implement Interoperability test systems to support warfighters	1	2017	4	2024