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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Defense Information Systems Agency **Date:** April 2022

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0303126K / <i>Long-Haul Communications - DCS</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	212.458	10.343	10.275	13.195	-	13.195	13.474	12.860	12.142	12.366	Continuing	Continuing
T82: <i>DISN Systems Engineering Support</i>	212.458	10.343	10.275	13.195	-	13.195	13.474	12.860	12.142	12.366	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Information Systems Network (DISN) is the Department of Defense's (DoD's) consolidated worldwide telecommunications capability that provides secure, end-to-end information transport for DoD operations. It also provides the warfighter and the Combatant Commands (COCOMs) with a robust Command, Control, Communications, Computing, and Intelligence infrastructure to support DoD net-centric missions and business requirements. The Defense Red Switch Network (DRSN) is a DoD Secure Voice, Command and Control Network that is controlled and directed by the Joint Staff and the Office of the Secretary of Defense. It provides multi-level secure, rapid, ad hoc, voice calling and conferencing capability to the President, Secretary of Defense, Services, COCOMs, subordinate organizations (military and civilian) and coalition allies. DRSN also supports the Presidential and National Voice Conferencing (PNVC) (formerly known as National Emergency Action Decision Network (NEADN)) and the Enhanced Pentagon Capability/Survivable Emergency Conferencing Network. These funds support three major efforts:

DISN Systems Engineering Support: This effort includes engineering for Networking capabilities and optical transport capabilities to ensure the essential operations of a robust and secure DISN; refreshing the systems that instrument and automate the operations, administration, maintenance and provisioning functions and creating a single DISN-wide view for network managers and operators.

DoD Mobility: The Mobility Program will lead the development of an Enterprise Solution to support Controlled Unclassified Information (CUI) and leverage commercial carrier infrastructure to provide entry points for both classified and unclassified wireless capabilities. Continued evolution and expansion, within the Department, of the DoD Mobility program will allow for increased mobile services in direct support of the warfighter and the COCOMs.

The FY23 funding request was reduced by $-\$(1.796)$ million to account for the availability of prior year execution balances.

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B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	10.343	10.275	0.000	-	0.000
Current President's Budget	10.343	10.275	13.195	-	13.195
Total Adjustments	0.000	0.000	13.195	-	13.195
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment to Budget Year	0.000	-	13.195	-	13.195

Change Summary Explanation

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

The increase of \$2.920 in FY2023 is to support the sustainment of the Defense Red Switch Network(DSRN) to include the protection of TS/SCI level communications between POTUS and national security leadership.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Defense Information Systems Agency										Date: April 2022		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0303126K / Long-Haul Communications - DCS				Project (Number/Name) T82 / DISN Systems Engineering Support			
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
T82: DISN Systems Engineering Support	212.458	10.343	10.275	13.195	-	13.195	13.474	12.860	12.142	12.366	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Defense Information Systems Network (DISN) Systems Engineering Support project encompasses four activities:

Next Generation Networking Technologies (formally known as Internet Protocol (IP) and Optical Transport Technology Refresh): Provides engineering technical expertise to support and integrate newer, more efficient technologies required to replace end of lifecycle equipment and to achieve more efficient Networking technologies. These new technologies provide protected and assured services for critical support to the warfighter as well as other DoD and federal customers.

Element Management System (EMS): Provides operational and network operating systems that instrument and automate the operations, administration, maintenance and provisioning functions creating a single DISN-wide view for network managers and operators. EMS is a component of the DISN Operational Support Systems (OSS).

Peripheral and Component Design (Secure Voice Switches): This equipment satisfies unique military requirements for multi-level security (i.e., extensive conferencing/conference management capabilities and features, and gateway functions) that are not available in commercial products.

DoD Mobility: Lead the research, development, and deployment of Enterprise controlled unclassified information (CUI) and classified mobile technologies, to increase information sharing and use of secure mobile devices across the global DoD. Continued evolution and expansion of mobility capabilities, within the Department, will revolutionized the way Combatant Commands, Services, and Agencies do work by enabling on-demand access to services and information anytime from anywhere.

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

	FY 2021	FY 2022	FY 2023
Title: Next Generation Networking Technologies (formally known as Internet Protocol (IP) and Optical Transport Technology Refresh)	5.866	4.583	3.737
Description: Provides engineering technical expertise to support and integrate newer, more efficient technologies required to replace end of lifecycle equipment and to achieve more efficient Networking technologies. These new technologies provide protected and assured services for critical support to the warfighter as well as other DoD and federal customers.			
FY 2022 Plans:			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2021	FY 2022	FY 2023
<p>Will continue to perform Research, Test and Evaluation activities in Software Environment, Next Generational Networking to include Gray networks and all associated encryption technologies.</p> <p>FY 2023 Plans: Will continue to perform Research, Test and Evaluation activities in Software Environment, Next Generational Networking to include Gray networks and all associated encryption technologies.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The decrease of -\$0.846 from FY 2022 FY 2023 is due to reduction in Network Architecture requirements.</p>				
<p>Title: Peripheral and Component Design</p> <p>Description: This equipment satisfies unique military requirements for multi-level security (i.e., extensive conferencing/conference management capabilities and features, and gateway functions) that are not available in commercial products.</p> <p>FY 2022 Plans: Continue to support replacement of obsolete equipment as it relates to Secure Voice Switches.</p> <p>FY 2023 Plans: Will continue to perform Research, Test and Evaluation activities in Software Environment, Next Generational Networking to include Gray networks and all associated encryption technologies as well as the development of CSSP.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The increase of \$2.959 from FY 2022 to FY 2023 is due to the projected cost associated with the implementation of CSSP across the DRSN network.</p>		0.002	1.547	4.506
<p>Title: Mobility</p> <p>Description: The Mobility Program lead the research, development, and deployment of Enterprise controlled unclassified information (CUI) and classified mobile technologies, to increase information sharing and use of secure mobile devices across the global DoD. Continued evolution and expansion of mobility capabilities, within the Department, will revolutionized the way Combatant Commands, Services, and Agencies do work by enabling on-demand access to services and information anytime from anywhere.</p> <p>FY 2022 Plans: Identify, assess, explore, and develop unclassified and classified mobile technologies enhancements that will increase information sharing and use of secure mobile devices across the global DoD. Support moving towards a desktop zero environment. Developmental and production testing of new-model commercial mobile devices per product baseline, carrier, and platform authenticated against the Mobile Device Manager. Security, interoperability, and functional evaluation of mobile</p>		4.475	4.145	4.952

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2021	FY 2022	FY 2023
<p>applications. Production testing of the applications development framework and integration testing for infrastructure components. The modernization of the Secure View capability will require prototype work to deliver a SIPR data at rest capability in a Windows environment. The development and deployment of the Unclassified and Classified Mobility Gold Core pre-production environments will support ongoing and future mobility prototype integration testing with various DMUC and DMCC applications/capabilities (i.e., email, purebred, etc.).</p> <p>FY 2023 Plans: Assess, test and expand the use of Derived Credentials capabilities to do continuous, multi-factor verification that leverages contextual attributes on a mobile device to make real-time security decisions within the device and when accessing remote systems; leveraging a device's innate functionality (e.g., application sandboxing, camera, GPS, etc.) to sense and measure the environment, user interaction and application interaction to ascertain risk. Develop mobile access control functionalities that leverage cloud-based technology to secure access to critical data without the need for resident data on the mobile device. Identify, assess, explore, and develop standardized, cost-effective automated methods and tools to develop, vet, deploy and manage mobile applications. Explore and test 5G capabilities and applications that can enable the use of 5G features such as network slicing and mobile edge cloud architectures. Modernize the current DoD Mobility Unclassified Capability (DMUC) applications and capabilities by acquire and deploying a cloud-based Next Generation Enterprise Mobile Management (EMM) capabilities, which will enable DoD-wide utilization of non-Government owned (i.e., personally, or corporately owned) mobile devices, enhanced threat protection for mobile applications, and integrated security monitoring. Evaluate and deploy a virtual/zero desktop infrastructure and applications that can deliver information to mobile devices using laptops, tablets, or smartphones. Developmental and production testing to enhance and expand the next generation Windows Data-At-Rest for Secret (WINDAR-S) capability. Assess, test, and deploy future DoD Mobility Classified Capability - Secret (DMUCC-S) technologies to enable access to secure classified voice/data communications through off-the-shelf products.</p> <p>FY 2022 to FY 2023 Increase/Decrease Statement: The increase of \$0.807 from FY 2022 to FY 2023 is due to increased support of technology innovation initiatives including Zero Trust and Enterprise Perimeter Protection (EPP); allowing for enterprise cloud access and security broker. Zero Trust and EPP establishes a protection barrier between the Internet, mission partner networks, and commercial cloud services, providing the ability to detect, inspect, block, and collect traffic in accordance with security policies.</p>			
Accomplishments/Planned Programs Subtotals	10.343	10.275	13.195

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

Line Item	FY 2021	FY 2022	FY 2023	FY 2023	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Cost To	
			Base	OCO	Total					Complete	Total Cost
• O&M/PE0303126K: <i>Operation & Maintenance, Defense-Wide</i>	127.029	128.714	-	-	-	-	-	-	-	Continuing	Continuing
• Procurement/PE0303126K: <i>Procurement, Defense-Wide</i>	28.141	26.982	-	-	-	-	-	-	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

Products acquired for Element Management System (EMS) requirements are professional services, network management software, supporting hardware, and development tools. Professional services will be procured through existing contracts available to DISA. The DISA Computing Services will be used for hardware and software leased managed services, as well as the National Aeronautics and Space Administration (NASA) enterprise equipment contracting vehicle when necessary and applicable.

The Internet Protocol (IP) enabling of the DRSN Digital Small Switch (DSS-2A) switch, Secure voice conference management improvements, High Altitude Electromagnetic Pulse (HEMP) Phone and related DRSN components will use an existing Air Force Command and Control Switching Systems (CCSS) Depot Support contract with the Secure Voice Switch systems manufacturer (Raytheon) to perform the development and modification work, system integration and testing support.

The Mobility initiative supports systems engineering and development of a DoD Mobility solution. The focus is on acquisitions to support the program across the DoD to include scheduling, delivery approach, and risk management. This also includes the vision and phased approach to unified capabilities for classified and unclassified wireless capabilities to meet DoD needs.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Defense Information Systems Agency **Date:** April 2022

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303126K / Long-Haul Communications - DCS	Project (Number/Name) T82 / DISN Systems Engineering Support
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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Systems Engineering for DSRN Components & Peripherals	Various	Raytheon : Florida	17.152	1.462	Mar 2021	1.462	Mar 2022	1.945	Mar 2023	-		1.945	Continuing	Continuing	Continuing
Systems Engineering for IP Enabling DSS-2A Secure Voice Switch	C/T&M	Raytheon : Florida	21.440	-		-		-		-		-	0.000	21.440	-
Engineering & Technical Services for Information Sharing Services for Voice	C/T&M	SAIC : VA	2.774	-		-		-		-		-	0.000	2.774	-
Engineering & Technical Services for Network Mgmt Solutions for New DISN Element Technologies	C/T&M	Various : VA	2.026	-		-		-		-		-	0.000	2.026	-
Single Sign On	C/T&M	SAIC : Various	1.397	-		-		-		-		-	0.000	1.397	-
System Engineering for VoSIP	C/T&M	Various : Various	1.218	-		-		-		-		-	0.000	1.218	-
Space Vehicle Upload	SS/CPFF	Iridium : McLean, VA	12.635	-		-		-		-		-	0.000	12.635	-
Gateway Improvement	SS/CPFF	Iridium : McLean, VA	13.565	-		-		-		-		-	0.000	13.565	-
Field Application Tool	MIPR	NSWC : Dahlgren	6.635	-		-		-		-		-	0.000	6.635	-
DTCS Handset	SS/CPFF	Iridium : McLean, VA	5.850	-		-		-		-		-	0.000	5.850	-
Command and Control Handset	SS/CPFF	Iridium : McLean, VA	7.275	-		-		-		-		-	0.000	7.275	-
Alt. Supplier Development	MIPR	NSWC : Dahlgren, VA	3.450	-		-		-		-		-	0.000	3.450	-
Radio Only Interface	MIPR	NSWC : Dahlgren, VA	2.525	-		-		-		-		-	0.000	2.525	-
Remote Control Unit	SS/CPFF	Iridium : McLean, VA	2.100	-		-		-		-		-	0.000	2.100	-
Type 1 Security	SS/CPFF	Iridium : McLean, VA	6.455	-		-		-		-		-	0.000	6.455	-
Vehicle Integration	MIPR	NSWC : Dahlgren, VA	3.185	-		-		-		-		-	0.000	3.185	-

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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Systems Engineering for IP and Optical Technology Refresh	Various	DITCO : Various	8.717	-		-		-		-		-	0.000	8.717	-
Engineering & Technical Services for Web Based Mediation	C/T&M	Apptis : VA	1.168	-		-		-		-		-	0.000	1.168	-
System Engineering and Technical Services for ISOM	Various	DITCO : Various	2.915	-		-		-		-		-	0.000	2.915	-
Serialized Asset Management - OSS	C/T&M	SAIC : VA	0.822	-		-		-		-		-	0.000	0.822	-
Gateways - Mobility	C/FFP	Various : Various	7.107	-		-		-		-		-	0.000	7.107	-
Thin Client Solution - Mobility	C/Various	Various : Various (MDM)	2.154	-		-		-		-		-	0.000	2.154	-
New Field Communications	C/FFP	Various : Various	0.550	-		-		-		-		-	0.000	0.550	-
National Conference Management	MIPR	USAF : Raytheon	4.514	-		-		-		-		-	0.000	4.514	-
IP Enable DRSN	MIPR	USAF : Raytheon	1.562	0.355	Mar 2021	0.355	Mar 2022	-		-		-	Continuing	Continuing	-
HEMP Phone Development	MIPR	USAF : Raytheon	0.869	-		-		-		-		-	0.000	0.869	-
100G Optical	Various	Various : Various	0.337	-		-		-		-		-	0.000	0.337	-
Defense Production Act III Optical Networking	Various	Various : Various	2.666	-		-		-		-		-	0.000	2.666	-
DoD Mobility Capability Service Assurance	C/FFP	Various (JITC, HYPHONI) : Various	2.316	-		-		-		-		-	0.000	2.316	-
System Engineering & Future Technology Support	SS/CPFF	SPAWAR : Charleston	2.420	-		-		-		-		-	0.000	2.420	-
System Engineering Support DMCC/DMUC	C/FFP	BAH : Annapolis Junction MD	4.530	1.449	Feb 2021	1.449	Feb 2022	-		-		-	Continuing	Continuing	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Defense Information Systems Agency **Date:** April 2022

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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
DIUx-Mobility APP Vetting and MSM tools (MTD)	MIPR	Zimperium : Dallas TX	2.237	-		-		-		-		-	0.000	2.237	-
MES-C-DMCC Buildout/ VDI	SS/CPFF	APRIVA/SPAWAR : APRIVA/SPAWAR	1.139	1.300	Oct 2020	0.736	Oct 2021	-		-		-	Continuing	Continuing	-
MES-(Unclassified) and MES-(Classified)/NEW Contract	C/FFP	BAH : Annapolis Junction MD	-	-		-		2.369	May 2023	-		2.369	Continuing	Continuing	-
Subtotal			155.705	4.566		4.002		4.314		-		4.314	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
IT Support - Mobility	C/FFP	Arieds, LLC : Ft. Meade	2.300	-		-		-		-		-	0.000	2.300	-
NS2 SE Support - Mobility	C/FFP	APPTIS : Ft. Meade	0.311	-		-		-		-		-	0.000	0.311	-
IT Support - Mobility	Various	Various : Various	4.050	1.050	Oct 2020	1.050	Oct 2021	2.241	Dec 2022	-		2.241	Continuing	Continuing	-
PNVC Software enhancements	C/CPFF	General Dynamics : NSA	5.900	-		-		-		-		-	0.000	5.900	-
Subtotal			12.561	1.050		1.050		2.241		-		2.241	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Certification Testing	Various	JITC : Various	8.242	-		-		-		-		-	0.000	8.242	-
Test & Evaluation Support - Mobility	Various	JITC : Ft. Meade	7.143	0.950	Oct 2020	0.950	Oct 2021	0.153	Nov 2022	-		0.153	Continuing	Continuing	-
Integration, Test and Modification - Mobility	Various	Various : Various	7.158	-		-		-		-		-	0.000	7.158	-
DISN Tech Refresh	Various	Various : Various	19.344	3.777	Dec 2020	4.273	Dec 2021	6.298	Nov 2022	-		6.298	Continuing	Continuing	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Defense Information Systems Agency		Date: April 2022
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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

DRSN	
DRSN	
OSS	
OSS	
Technology Refresh	
Technology Refresh	
DISN Tech Refresh	
Mobility	
Lab Purchase (Gateways, NIPR, SIPR, TS Enclave)	
DoD Mobility Gateways - Architecture Support	
NIPR Enclave (MDM, MAS)	
SIPR Enclave (MDM, MAS)	
TS Enclave (MDM, MAS)	
MDM & MAS Operational Testing	
Virtual Desktop Infrastructure (VDI)	
PNVC	
DISN Tech Refresh	

FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
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

DRSN	
DRSN	
OSS	

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Defense Information Systems Agency **Date:** April 2022

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	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	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
OSS																												
Technology Refresh																												
Technology Refresh																												
DISN Tech Refresh																												
Mobility																												
Lab Purchase (Gateways, NIPR, SIPR, TS Enclave)																												
DoD Mobility Gateways - Architecture Support																												
NIPR Enclave (MDM, MAS)																												
SIPR Enclave (MDM, MAS)																												
TS Enclave (MDM, MAS)																												
MDM & MAS Operational Testing																												
Virtual Desktop Infrastructure (VDI)																												
PNVC																												
DISN Tech Refresh																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Defense Information Systems Agency		Date: April 2022
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303126K / Long-Haul Communications - DCS	Project (Number/Name) T82 / DISN Systems Engineering Support

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
DRSN				
DRSN	1	2017	4	2024
OSS				
OSS	1	2017	4	2017
Technology Refresh				
Technology Refresh	1	2015	4	2021
DISN Tech Refresh	1	2017	4	2025
Mobility				
Lab Purchase (Gateways, NIPR, SIPR, TS Enclave)	1	2017	4	2027
DoD Mobility Gateways - Architecture Support	1	2017	4	2025
NIPR Enclave (MDM, MAS)	1	2017	4	2027
SIPR Enclave (MDM, MAS)	1	2017	4	2027
TS Enclave (MDM, MAS)	1	2017	4	2027
MDM & MAS Operational Testing	1	2017	4	2027
Virtual Desktop Infrastructure (VDI)	4	2018	3	2020
PNVC	4	2018	4	2019
DISN Tech Refresh	1	2019	3	2024