Department of Defense
Fiscal Year (FY) 2022 Budget Estimates

May 2021

Defense Information Systems Agency

Defense-Wide Justification Book Volume 5 of 5

Research, Development, Test & Evaluation, Defense-Wide

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Table of Volumes

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Footnotes

FY 2020 Actuals

Includes Division A, Title IX and X of the Consolidated Appropriations Act, 2020 (P.L. 116-93), Division F, Title IV and V from the Further Consolidated Appropriations Act, 2020 (P.L. 116-94) and the Coronavirus Aid, Relief, and Economic Security Act (P.L. 116-136).

FY 2021 Enacted

Includes Division C, Title IX and Division J, Title IV of the Consolidated Appropriations Act, 2021 (P.L. 116-260).

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Department of Defense
FY 2022 President's Budget
Exhibit R-1 FY 2022 President's Budget
Total Obligational Authority
(Dollars in Thousands)

04 May 2021

Appropriation	FY 2020 Actual*	FY 2021 Enacted**	FY 2022 Request
Research, Development, Test & Eval, DW	510,009	390,750	377,812
Total Research, Development, Test & Evaluation	510,009	390,750	377,812

R-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 4, 2021 at 09:07:38

Department of Defense
FY 2022 President's Budget
Exhibit R-1 FY 2022 President's Budget
Total Obligational Authority
(Dollars in Thousands)

04 May 2021

Summary Recap of Budget Activities	FY 2020 Actual*	FY 2021 Enacted**	FY 2022 Request
System Development & Demonstration	1,262		
Management Support	61,757	96,823	76,775
Operational Systems Development	446,990	218,177	81,624
Software And Digital Technology Pilot Programs		75,750	219,413
Total Research, Development, Test & Evaluation	510,009	390,750	377,812

Summary Recap of FYDP Programs			
General Purpose Forces	67,128	59,813	55,361
Intelligence and Communications	249,054	185,848	121,444
Research and Development	183,834	137,058	196,672
Central Supply and Maintenance	1,361	1,654	1,690
Administration and Associated Activities	3,090	3,138	2,645
Space	5,542	3,239	
Total Research, Development, Test & Evaluation	510,009	390,750	377,812

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Defense-Wide
FY 2022 President's Budget
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Operational Systems Development	446,990	218,177	81,624
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Total Research, Development, Test & Evaluation	510,009	390,750	377,812

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Total Obligational Authority
(Dollars in Thousands)

04 May 2021

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2020 Actual*	FY 2021 Enacted**	FY 2022 Request	Sec
146	0303141K	Global Combat Support System	05	1,262			U
		System Development & Demonstration		1,262			
184	0208045K	C4I Interoperability	06		59,813	55,361	U
190	0305172K	Combined Advanced Applications	06	58,667	30,824	15,696	U
192	0305208K	Distributed Common Ground/Surface Systems	06		3,048	3,073	U
198	0903235K	Joint Service Provider (JSP)	06	3,090	3,138	2,645	U
		Management Support		61,757	96,823	76,775	
201	0604532K	Joint Artificial Intelligence	07	183,834	137,058	10,033	U
209	0208045K	C4I Interoperability	07	67,128			U
213	0302019K	Defense Info Infrastructure Engineering and Integration	07	10,798	16,324	16,233	U
214	0303126K	Long-Haul Communications - DCS	07	11,749	11,884	10,275	U
215	0303131K	Minimum Essential Emergency Communications Network (MEECN)	07	17,699	5,560	4,892	U
219	0303140K	Information Systems Security Program	07	39,798	8,922	5,707	U
220	0303150K	Global Command and Control System	07	14,534	3,695	4,150	U
221	0303153K	Defense Spectrum Organization	07	19,212	20,113	19,302	U
222	0303228K	Joint Regional Security Stacks (JRSS)	07	16,869	9,728	9,342	U
223	0303430K	Federal Investigative Services Information Technology	07	44,001			U
225	0303467K	SENSR Spectrum Pipeline SRF	07	11,484			U
241	0305208K	Distributed Common Ground/Surface Systems	07	2,981			U
253	0708012K	Logistics Support Activities	07	1,361	1,654	1,690	U

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Defense-Wide
FY 2022 President's Budget
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(Dollars in Thousands)

04 May 2021

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2020 Actual*	FY 2021 Enacted**	FY 2022 Request	Sec
269	1203610K	Teleport Program	07	5,542	3,239		U
		Operational Systems Development		446,990	218,177	81,624	
270	0604532K	Joint Artificial Intelligence	08			186,639	U
273	0303150K	Global Command and Control System	08		75,750	32,774	U
		Software And Digital Technology Pilot Programs			75,750	219,413	
Total Research, Development, Test & Eval, DW				510,009	390,750	377,812	

R-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 4, 2021 at 09:07:38

Defense Information Systems Agency
FY 2022 President's Budget
Exhibit R-1 FY 2022 President's Budget
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(Dollars in Thousands)

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	System Development & Demonstration			1,262			
184	0208045K	C4I Interoperability	06		59,813	55,361	U
190	0305172K	Combined Advanced Applications	06	58,667	30,824	15,696	U
192	0305208K	Distributed Common Ground/Surface Systems	06		3,048	3,073	U
198	0903235K	Joint Service Provider (JSP)	06	3,090	3,138	2,645	U
	Management Support			61,757	96,823	76,775	
201	0604532K	Joint Artificial Intelligence	07	183,834	137,058	10,033	U
209	0208045K	C4I Interoperability	07	67,128			U
213	0302019K	Defense Info Infrastructure Engineering and Integration	07	10,798	16,324	16,233	U
214	0303126K	Long-Haul Communications - DCS	07	11,749	11,884	10,275	U
215	0303131K	Minimum Essential Emergency Communications Network (MEECN)	07	17,699	5,560	4,892	U
219	0303140K	Information Systems Security Program	07	39,798	8,922	5,707	U
220	0303150K	Global Command and Control System	07	14,534	3,695	4,150	U
221	0303153K	Defense Spectrum Organization	07	19,212	20,113	19,302	U
222	0303228K	Joint Regional Security Stacks (JRSS)	07	16,869	9,728	9,342	U
223	0303430K	Federal Investigative Services Information Technology	07	44,001			U
225	0303467K	SENSR Spectrum Pipeline SRF	07	11,484			U
241	0305208K	Distributed Common Ground/Surface Systems	07	2,981			U
253	0708012K	Logistics Support Activities	07	1,361	1,654	1,690	U
269	1203610K	Teleport Program	07	5,542	3,239		U

R-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 4, 2021 at 09:07:38

Defense Information Systems Agency
FY 2022 President's Budget
Exhibit R-1 FY 2022 President's Budget
Total Obligational Authority
(Dollars in Thousands)

04 May 2021

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2020 Actual*	FY 2021 Enacted**	FY 2022 Request	Sec
		Operational Systems Development		446,990	218,177	81,624	
270	0604532K	Joint Artificial Intelligence	08			186,639	U
273	0303150K	Global Command and Control System	08		75,750	32,774	U
		Software And Digital Technology Pilot Programs			75,750	219,413	
		Total Defense Information Systems Agency		510,009	390,750	377,812	

R-122BAS: FY 2022 President's Budget (Total Base Published Version), as of May 4, 2021 at 09:07:38

Program Element Table of Contents (by Budget Activity then Line Item Number)

Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

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Program Element Table of Contents (Alphabetically by Program Element Title)

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0303141K / *Global Combat Support System*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	270.621	1.262	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing
CS01: *Global Combat Support System*	270.621	1.262	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing

Program MDAP/MAIS Code: 483

A. Mission Description and Budget Item Justification

Global Combat Support System - Joint (GCSS-J), is a key enabler for achieving Focused Logistics and is essential during peace, contingency, crisis, and war in support of the joint warfighter across the full range of military operations. GCSS-J, the Logistics System of Record, provides a Joint Logistics Common Operational Picture to ensure the right personnel, equipment, supplies, and support are in the right place at the right time and in the right quantities to mobilize, move, and sustain all elements of operating forces within a theater or operational area.

GCSS-J gathers data from authoritative sources to provide a fused, integrated, near real-time, multidimensional view of combat support and combat service support across joint capability areas. These efforts provide situational awareness of the battlespace and logistics pipeline (e.g., supply, deployment and distribution, engineering, etc.). Using GCSS-J, the joint logistics warfighter no longer needs to log into multiple legacy systems and manually gather data to compile reports. GCSS-J provides real time actionable information in the form of watchboards (e.g., fuels and munitions watchboards) and near real time information in the form of reports and mapping visualizations.

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	1.262	0.000	0.000	-	0.000
Current President's Budget	1.262	0.000	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

No vertical statement required.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0303141K / *Global Combat Support System*	Project (Number/Name) CS01 / *Global Combat Support System*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
CS01: *Global Combat Support System*	270.621	1.262	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Global Combat Support System – Joint (GCSS-J) provides the warfighter with a single, end-to-end capability to manage and monitor personnel and equipment through the mobilization process. GCSS-J, the Logistics' System of Record, provides a Joint Logistics Common Operational Picture (JLogCOP), ensuring the right personnel, equipment, supplies, and support are in the right place, at the right time, and in the right quantities across the full spectrum of military operations.

GCSS-J gathers data from authoritative sources to provide fused, integrated, near real-time multidimensional view of combat support and combat service support across joint capability areas. These efforts provide situational awareness of the battlespace and logistics pipeline (e.g., Supply, Deployment and Distribution, Engineering, etc.). Using GCSS-J, the joint logistics warfighter no longer needs to log into multiple legacy systems and manually gather data to compile reports. GCSS-J provides real-time in the form of reports and mapping visualizations.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Global Combat Support System-Joint	1.262	-	-
Description: GCSS-J is a key enabler for achieving Focused Logistics and is essential during peace, contingency, crisis, and war in support of the joint warfighter across the full range of military operations. GCSS-J, the Logistics System of Record, provides a Joint Logistics Common Operational Picture (LogCOP) to ensure the right personnel, equipment, supplies, and support are in the right place at the right time and in the right quantities to mobilize, move, and sustain all elements of operating forces within a theater or operational area.			
Accomplishments/Planned Programs Subtotals	1.262	-	-

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• O&M, DW/PE 0303141K: *O&M, DW*	14.717	-	-	-	-	-	-	-	-	14.717	0.000

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 5	**R-1 Program Element (Number/Name)** PE 0303141K / *Global Combat Support System*	**Project (Number/Name)** CS01 / *Global Combat Support System*

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0303141K / *Global Combat Support System*	Project (Number/Name) CS01 / *Global Combat Support System*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development 1	C/T&M	Enterworks : Sterling, VA	8.745	-		-		-		-		-	0.000	8.745	8.745
Product Development 2	C/T&M	WFI (DSI) : Manassas, VA	4.125	-		-		-		-		-	0.000	4.125	4.125
Product Development 3	C/CPAF	NGIT : Herndon, VA	127.849	-		-		-		-		-	0.000	127.849	127.849
Product Development 4	C/T&M	SAIC : Falls Church, VA	17.061	-		-		-		-		-	0.000	17.061	17.061
Product Development 5	C/FFP	NGIT, : Reston, VA	27.051	-		-		-		-		-	0.000	27.051	27.051
Product Development 6	SS/FFP	UNISYS, : Falls Church, VA	16.472	-		-		-		-		-	0.000	16.472	16.472
Product Development 7	MIPR	FGM, : Reston, VA	5.482	-		-		-		-		-	0.000	5.482	5.482
Product Development 8	SS/FFP	Merlin, : McLean, VA	1.664	-		-		-		-		-	0.000	1.664	1.664
Product Development 9	MIPR	JDTC, : Ft. Eustis, VA	2.423	-		-		-		-		-	0.000	2.423	2.423
Product Development 10	MIPR	CSC, : Norfolk, VA	0.300	-		-		-		-		-	0.000	0.300	0.300
Product Development 11	C/FFP	Pragmatics : Reston, VA	15.968	0.722	May 2020	-		-		-		-	0.000	16.690	17.266
		Subtotal	227.140	0.722		-		-		-		-	0.000	227.862	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test & Evaluation 1	C/CPFF	COMTEK, : Sterling,VA	3.902	-		-		-		-		-	0.000	3.902	3.902
Test & Evaluation 2	MIPR	SSO, : Montgomery	0.500	-		-		-		-		-	0.000	0.500	0.500
Test & Evaluation 3	MIPR	DIA : WDC	3.785	-		-		-		-		-	0.000	3.785	3.785
Test & Evaluation 4	C/CPFF	Pragmatics : Pragmatics	1.684	-		-		-		-		-	0.000	1.684	1.684
Test & Evaluation 5	C/CPFF	AAC, Inc., : Vienna, VA	2.790	-		-		-		-		-	0.000	2.790	2.790

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0303141K / *Global Combat Support System*	Project (Number/Name) CS01 / *Global Combat Support System*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test & Evaluation 6	MIPR	JITC, : Ft. Huachuca, AZ	8.718	0.300	Oct 2019	-		-		-		-	0.000	9.018	9.018
Test & Evaluation 7	MIPR	STRATCOM (DAA) : Bolling AFB, DC	1.289	0.170	Oct 2019	-		-		-		-	0.000	1.459	1.459
Test & Evaluation 8	MIPR	DISA (TE LAB Support) : Fort Meade, MD	1.659	0.070	Oct 2019	-		-		-		-	0.000	1.729	1.729
Test & Evaluation 9	MIPR	DISA FSO Security Testing Support : Fort Meade, MD	0.350	-		-		-		-		-	0.000	0.350	0.350
		Subtotal	24.677	0.540		-		-		-		-	0.000	25.217	N/A

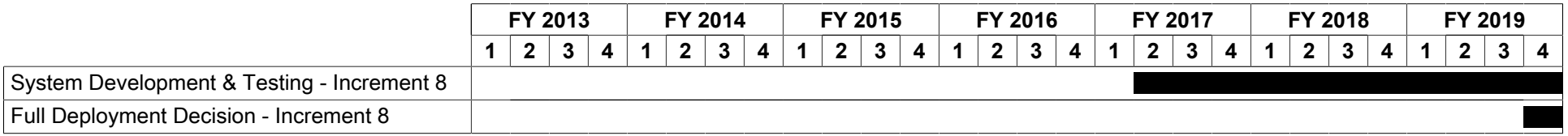
Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Services 1	FFRDC	MITRE, : Vienna, VA	16.934	-		-		-		-		-	0.000	16.934	16.934
Management Services 2	SS/CPFF	UMD, : Eastern Shore, MD	1.021	-		-		-		-		-	0.000	1.021	1.021
Management Services 3	MIPR	IDA, : Alexandria, VA	0.749	-		-		-		-		-	0.000	0.749	0.749
Management Services 4	MIPR	JFCOM, : Norfolk, Va	0.100	-		-		-		-		-	0.000	0.100	0.100
		Subtotal	18.804	-		-		-		-		-	0.000	18.804	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	270.621	1.262		0.000		-		-		-	0.000	271.883	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 5	**R-1 Program Element (Number/Name)** PE 0303141K / *Global Combat Support System*	**Project (Number/Name)** CS01 / *Global Combat Support System*



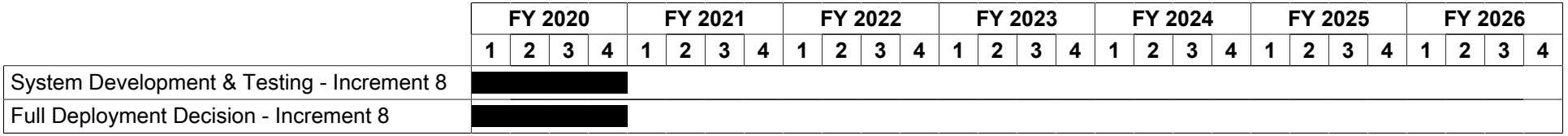


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 5	**R-1 Program Element (Number/Name)** PE 0303141K / *Global Combat Support System*	**Project (Number/Name)** CS01 / *Global Combat Support System*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
System Development & Testing - Increment 8	2	2017	4	2020
Full Deployment Decision - Increment 8	4	2019	4	2020

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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0208045K / *C4I Interoperability*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	59.813	55.361	-	55.361	-	-	-	-	Continuing	Continuing
T-30: *MRTFB Test and Evaluation*	0.000	0.000	7.831	1.790	-	1.790	-	-	-	-	Continuing	Continuing
T-40: *Major Range Test Facility Base Operations*	0.000	0.000	51.982	53.571	-	53.571	-	-	-	-	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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	0.000	59.813	55.938	-	55.938
Current President's Budget	0.000	59.813	55.361	-	55.361
Total Adjustments	0.000	0.000	-0.577	-	-0.577
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	-0.577	-	-0.577

Change Summary Explanation

The decrease in FY 2022 of -0.577 is due to a reduction in technical contract support.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0208045K / *C4I Interoperability*	Project (Number/Name) T-30 / *MRTFB Test and Evaluation*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
T-30: *MRTFB Test and Evaluation*	0.000	0.000	7.831	1.790	-	1.790	-	-	-	-	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 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0208045K / *C4I Interoperability*	**Project (Number/Name)** T-30 / *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 2020	FY 2021	FY 2022
Title: DoD's Joint Interoperability Certification Authority	-	6.911	0.870
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 2021 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0208045K / *C4I Interoperability*	**Project (Number/Name)** T-30 / *MRTFB Test and Evaluation*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Will 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 2022 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 2021 to FY 2022 Increase/Decrease Statement:*** The decrease of -$6.041 from FY 2021 to FY 2022 is due to the realignment of 1) civilian pay from T-30 (MRTFB Test and Evaluation) to T-40 (Major Range Test Facility Base Operations) to reflect civilian pay in one project (-$5.781). A decrease of -$0.260 is a result of a delay in deployment of automation technologies.			
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 2021 Plans:*** Will 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. Provide OT&E support to COCOMs, Military Services, and Defense Agencies as requested. ***FY 2022 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 2021 to FY 2022 Increase/Decrease Statement:*** N/A	-	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 2021 Plans:***	-	0.120	0.120

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0208045K / *C4I Interoperability*	**Project (Number/Name)** T-30 / *MRTFB Test and Evaluation*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Support will focus 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 2022 Plans:*** Support will focus 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 2021 to FY 2022 Increase/Decrease Statement:*** N/A			
Accomplishments/Planned Programs Subtotals	-	7.831	1.790

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Test, Evaluation, and Certification (TEC) 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 TEC 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.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0208045K / *C4I Interoperability*	Project (Number/Name) T-40 / *Major Range Test Facility Base Operations*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
T-40: *Major Range Test Facility Base Operations*	0.000	0.000	51.982	53.571	-	53.571	-	-	-	-	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 2020	FY 2021	FY 2022
Title: MRTFB Improvements and Operations	-	51.982	53.571
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 2021 Plans: As an MRTFB, JITC will operate 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 expanding the use of cloud technologies to provide seamless			

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0208045K / *C4I Interoperability*	**Project (Number/Name)** T-40 / *Major Range Test Facility Base Operations*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
distributed testing services and efficient use of testing equipment and resources. JITC maintain technical workforce, support base operations, communications, and operating expenses at each location. ***FY 2022 Plans:*** As an MRTFB, JITC will operate 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 efficient use of testing equipment and resources. JITC maintain technical workforce, support base operations, communications, and operating expenses at each location. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The increase of +$1.589 in FY 2021 to FY 2022 is attributed to 1) civilian pay from T-30 (MRTFB Test and Evaluation) to T-40 (MRTFB Operations) to reflect civilian pay in one project.(+$5.781) and 2.) decrease of -$4,192 due to delay in test infrastructure enhancements.			
Accomplishments/Planned Programs Subtotals	-	51.982	53.571

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Test, Evaluation, and Certification (TEC) 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 TEC 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.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0305172K / *Combined Advanced Applications*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	50.561	58.667	30.824	15.696	-	15.696	-	-	-	-	Continuing	Continuing
CA1: *Combined Advanced Applications*	50.561	48.667	30.824	5.696	-	5.696	-	-	-	-	Continuing	Continuing
FM1: *Financial Management Systems*	0.000	10.000	0.000	10.000	-	10.000	-	-	-	-	0.000	20.000

A. Mission Description and Budget Item Justification

Combined Advanced Applications is classified and exhibit will be provided under a separate cover.

Financial Management Systems will acquire support for the modernization of the financial account management information system capability. The new procurement will use a single step to full capability approach and execute in accordance with the Component Acquisition Executive (CAE) Guideline for Projects. This Acquisition Strategy provides the business and technical management approach to achieve program objectives within resource constraints. The financial business area is currently supported by multiple legacy systems operating on platforms with associated performance issues such as high cost, technology support issues, unsupportable interoperability, and high risk of failure. In addition, various federal financial management and Department of Defense requirements (e.g., Business Enterprise Architecture (BEA)); the Treasury Department's Invoice Processing Platform).

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	58.667	30.824	6.472	-	6.472
Current President's Budget	58.667	30.824	15.696	-	15.696
Total Adjustments	0.000	0.000	9.224	-	9.224
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	9.224	-	9.224

Change Summary Explanation

Increase of +$9.224 in FY 2022 is due to the development of a financial management system for sensitive activities in support of the Defense-Wide (TI-97) and the Army (TI-21) (+$10.000) and includes a net decrease (-$0.776) that is classified and exhibit will be provided under a separate cover.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0305172K / *Combined Advanced Applications*	Project (Number/Name) CA1 / *Combined Advanced Applications*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
CA1: *Combined Advanced Applications*	50.561	48.667	30.824	5.696	-	5.696	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Program is classified and exhibit will be provided under a separate cover.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Combined Advanced Applications	48.667	30.824	5.696
Description: Classified. ***FY 2021 Plans:*** Classified. ***FY 2022 Plans:*** Classified. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** Classified.			
Accomplishments/Planned Programs Subtotals	48.667	30.824	5.696

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Classified

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0305172K / *Combined Advanced Applications*	Project (Number/Name) FM1 / *Financial Management Systems*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
FM1: *Financial Management Systems*	0.000	10.000	0.000	10.000	-	10.000	-	-	-	-	0.000	20.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Financial Management Systems will acquire support for the modernization of the financial account management information system capability. The new procurement will use a single step to full capability approach and execute in accordance with the Component Acquisition Executive (CAE) Guideline for Projects. This Acquisition Strategy provides the business and technical management approach to achieve program objectives within resource constraints. The financial business area is currently supported by multiple legacy systems operating on platforms with associated performance issues such as high cost, technology support issues, unsupportable interoperability, and high risk of failure. In addition, various federal financial management and Department of Defense requirements (e.g., Business Enterprise Architecture (BEA); the Treasury Department's Invoice Processing Platform).

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Financial Management Systems - Test and Development	10.000	-	10.000
Description: Provides development, testing, piloting and pre-deployment for integrated business solution for the modernization of the sensitive financial information platform capability for the DoD users. ***FY 2022 Plans:*** Provides development, testing, piloting and pre-deployment for integrated business solution for the modernization of the sensitive financial information platform capability for the DoD users. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** Increase of +$10.000 from FY 2021 to FY 2022 is additional funding to continue the development of a financial management system for sensitive activities in support of the Defense-Wide (TI-97) and the Army (TI-21).			
Accomplishments/Planned Programs Subtotals	10.000	-	10.000

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0305208K / *Distributed Common Ground/Surface Systems*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	3.048	3.073	-	3.073	-	-	-	-	Continuing	Continuing
NF1: *Distributed Common Ground/Surface Systems*	0.000	0.000	3.048	3.073	-	3.073	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

As the sole joint interoperability certification agent, the Joint Interoperability Test Command (JITC) established and maintains a Distributed Development and Test Enterprise (T&E) for the Department of Defense (DoD) Distributed Common Ground/Surface System (DCGS) program, as directed by the Office of the Under Secretary of Defense Intelligence (OUSD(I)). DCGS is an integral and critical component of the overall DoD Intelligence, Surveillance, and Reconnaissance interoperability and data integration strategy which provides world-wide capabilities to receive, process, exploit, and disseminate data from airborne and national reconnaissance sensors/ platforms and commercial sources.

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	0.000	3.048	3.110	-	3.110
Current President's Budget	0.000	3.048	3.073	-	3.073
Total Adjustments	0.000	0.000	-0.037	-	-0.037
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	-0.037	-	-0.037

Change Summary Explanation

The decrease of -$0.037 in FY 2022 is due to a non-fuel technical adjustment.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0305208K / *Distributed Common Ground/Surface Systems*	Project (Number/Name) NF1 / *Distributed Common Ground/Surface Systems*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
NF1: *Distributed Common Ground/Surface Systems*	0.000	0.000	3.048	3.073	-	3.073	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Joint Interoperability Test Command (JITC) coordinates with the Military Services and Defense Intelligence Agencies to conduct Joint/Distributed Common Ground/ Surface System (DCGS) testing and analysis, including event coordination, configuration, instrumentation and integration functions on the Distributed Development and Test Enterprise (DDTE). Under the DCGS Governance, this effort, referred to as the DCGS Test and Evaluation (T&E) Focus Team (FT), is composed of three parts: the DDTE Focus Group, providing and sustaining a distributed development network; the Strategy Focus Group, looking at current and future net-enabled enterprise T&E methods; and the Execution Focus Group, which leverages the Strategy Focus Group's methodologies in executing DCGS Enterprise assessment events, such as the annual DCGS demonstration, ENTERPRISE CHALLENGE. These efforts improve systems engineering and T&E throughout all phases of the DCGS life-cycle, resulting in improved capabilities to share net-centric data and services between the DCGS Programs of Record (PoRs) and the overarching Defense Intelligence Information Enterprise (DI2E).

Operates and maintains the DDTE, providing DCGS PoRs a virtual, operationally-relevant assessment environment maintaining connectivity between Service facilities, National Agency capabilities, and Coalition partners. DDTE allows robust integration of modeling and simulation T&E capabilities across Joint DCGS events without introducing vulnerabilities to operational Command and Control networks and has enabled improvements in systems engineering, instrumentation and T&E throughout all phases of the DCGS life cycle.

DCGS PoRs and Coalition partners use the DDTE network, which supports the net-centric maturity assessment of the DCGS Enterprise under the DCGS Governance, to integrate architecture, standards, and capabilities for implementation of the DCGS Integration Backbone and support the migration to net-centricity, including DCGS Enterprise services for the Military Departments, DCGS-Special Operations Forces and the DCGS Intelligence Community. National Agency capabilities supporting DCGS include Geospatial Intelligence, Signals Intelligence, Measurement and Signature Intelligence and Human Intelligence, which are integrated and tested in the DDTE domain.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Distributed Common Ground/Surface Systems (DCGS)	-	3.048	3.073
Description: Joint Interoperability Test Command (JITC) coordinates with the Military Services and Defense Intelligence Agencies to conduct Joint/Distributed Common Ground/Surface System (DCGS) testing and analysis, including event coordination, configuration, instrumentation and integration functions on the Distributed Development and Test Enterprise (DDTE). Under the DCGS Governance, this effort, referred to as the DCGS Test and Evaluation (T&E) Focus Team (FT), is composed of three parts: the DDTE Focus Group, providing and sustaining a distributed development network; the Strategy Focus Group, looking at current			

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0305208K / *Distributed Common Ground/Surface Systems*	**Project (Number/Name)** NF1 / *Distributed Common Ground/Surface Systems*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
and future net-enabled enterprise T&E methods; and the Execution Focus Group, which leverages the Strategy Focus Group's methodologies in executing DCGS Enterprise assessment events, such as the annual DCGS demonstration, ENTERPRISE CHALLENGE. These efforts improve systems engineering and T&E throughout all phases of the DCGS life-cycle, resulting in improved capabilities to share net-centric data and services between the DCGS Programs of Record (PoRs) and the overarching Defense Intelligence Information Enterprise (DI2E). ***FY 2021 Plans:*** Will revise and evolve test and evaluation (T&E) data collection techniques and analysis strategies in support of DCGS Enterprise community members acquisition programs' interoperability as they integrate capabilities and services solutions to address the operational gaps identified in the OUDS(I) sponsored Distributed Common Ground/Surface System Enterprise Capabilities Based Assessment. Continue to plan, develop and execute enterprise-level data collection during multiple yearly test events. Continue to support DDTE, provide enhanced functionality, expand T&E capability, and perform automated evaluations of net-centric capabilities with improved assessment methodologies and practices due to incorporating new technologies such as cloud computing, mobile technology, and "big data". Continue enhancement of instrumentation and automated data collection tools to support testing on multiple network domains and enclaves where the DCGS PoRs, National Agencies and Coalition Partners test and operate. Continue to develop T&E methodology and tools to support testing of enterprise cybersecurity solutions to determine if they comply with standards, support interoperability between the DCGS PoRs, and meet the DCGS Enterprise cybersecurity requirements. Continue to conduct compliance testing of data, metadata, and web services against established standards to enhance the sharing and promote reuse of net centric solutions. Continuing to expand TaaS capabilities that enable DCGS entities and other COIs to test for standards compliance during the development and acquisition processes. All data collected by these assessment efforts are reflected in an annual DCGS Enterprise Assessment Report that delineates how well the DCGS Enterprise shows progress over time in meeting the capabilities and closing the gaps reflected in the 2016 DCGS Enterprise Initial Capabilities Document. ***FY 2022 Plans:*** Will revise and evolve test and evaluation (T&E) data collection techniques and analysis strategies in support of DCGS Enterprise community members acquisition programs' interoperability as they integrate capabilities and services solutions to address the operational gaps identified in the OUDS(I) sponsored Distributed Common Ground/Surface System Enterprise Capabilities Based Assessment. Continue to plan, develop and execute enterprise-level data collection during multiple yearly test events. Continue to support DDTE, provide enhanced functionality, expand T&E capability, and perform automated evaluations of net-centric capabilities with improved assessment methodologies and practices due to incorporating new technologies such as cloud computing, mobile technology, and "big data". Continue enhancement of instrumentation and automated data collection tools to support testing on multiple network domains and enclaves where the DCGS (Program of Record) PoRs, National Agencies and Coalition Partners test and operate. Continue to develop T&E methodology and tools to support testing of enterprise			

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0305208K / *Distributed Common Ground/Surface Systems*	**Project (Number/Name)** NF1 / *Distributed Common Ground/Surface Systems*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
cybersecurity solutions to determine if they comply with standards, support interoperability between the DCGS PoRs, and meet the DCGS Enterprise cybersecurity requirements. Continue to conduct compliance testing of data, metadata, and web services against established standards to enhance the sharing and promote reuse of net centric solutions. Continuing to expand TaaS capabilities that enable DCGS entities and other COIs to test for standards compliance during the development and acquisition processes. All data collected by these assessment efforts are reflected in an annual DCGS Enterprise Assessment Report that delineates how well the DCGS Enterprise shows progress over time in meeting the capabilities and closing the gaps reflected in the 2016 DCGS Enterprise Initial Capabilities Document. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The increase of +$0.025 from FY 2021 to FY 2022 will provide implementation of enhanced data analytics for DCGS.			
Accomplishments/Planned Programs Subtotals	-	3.048	3.073

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Test, Evaluation, and Certification (TEC) 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 TEC 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.

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0903235K / *Joint Service Provider*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	9.193	3.090	3.138	2.645	-	2.645	-	-	-	-	Continuing	Continuing
JSP: *Joint Service Provider*	9.193	3.090	3.138	2.645	-	2.645	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Joint Service Provider (JSP) provides Information Technology (IT) infrastructure and office automation systems, components, supporting software, and IT support services for the Office of the Secretary of Defense (OSD), Joint Staff, Headquarters Department of the Army (HQDA), Washington Headquarters Services (WHS), Pentagon Force Protection Agency (PFPA), DoD Consolidated Adjudication Facility (DoD CAF), and other JSP-supported 4th Estate users and communities supported within the Pentagon Reservation and other areas in the National Capitol Region (NCR). RDT&E provides for the test, pilot, and development of new integrated business tools to enhance the JSP business processes and improve the delivery of IT services and capabilities. This activity executes JSP's testing environment to allow insertion of commercial off-the-shelf and government-managed software for all supported JSP services to include network transport, storage, compute, defensive cyber operations, Pentagon Installation Processing Node (IPN), and other components of the NCR's core network infrastructure. These efforts also provide mobile classified computing and communications platforms technology test and development for the immediate Office of the Secretary of Defense, enabling secured computing at residence, temporary and mobile locations around the world.

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	3.090	3.138	2.992	-	2.992
Current President's Budget	3.090	3.138	2.645	-	2.645
Total Adjustments	0.000	0.000	-0.347	-	-0.347
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	-0.347	-	-0.347

Change Summary Explanation

The decrease of -$0.347 in FY 2022 is due to a reduction in technical evaluation activities.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0903235K / *Joint Service Provider*	Project (Number/Name) JSP / *Joint Service Provider*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
JSP: *Joint Service Provider*	9.193	3.090	3.138	2.645	-	2.645	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Joint Service Provider (JSP) provides mobile classified computing and communications platforms technology test and development for the immediate Office of the Secretary of Defense, enabling secured computing at residence, temporary and mobile locations around the world.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: SECDEF Communications	0.105	0.107	0.108
Description: Provides mobile classified computing and communications platforms technology test and development for the immediate Office of the Secretary of Defense, enabling secured computing at residence, temporary and mobile locations around the world. ***FY 2021 Plans:*** Continue to provide mobile classified computing and communications platforms technology test and development for the immediate Office of the Secretary of Defense, enabling secured computing at residence, temporary and mobile locations around the world. ***FY 2022 Plans:*** Continue to provide mobile classified computing and communications platforms technology test and development for the immediate Office of the Secretary of Defense, enabling secured computing at residence, temporary and mobile locations around the world. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The increase of +$0.001 from FY 2021 to FY 2022 is attributed to an increase to technical contract support.			
Title: Enterprise Initiative Test & Development	2.985	3.031	2.537
Description: This activity executes JSP's testing environment to allow insertion of commercial off the shelf and government managed software for all supported JSP services to include network transport, storage, compute, defensive cyber operations, Pentagon Installation Processing Node (IPN), and other components of the NCR's core network infrastructure. This effort allows informed investment in cyber defense, resilience, and the continued integration of cyber capabilities into the full spectrum of military operational needs required by the JSP supported user base and prioritize developing capabilities enabling a more resilient and survivable Department of Defense Information Network (DODIN) in the face of a dynamic and increasingly sophisticated threat environment.			

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 6	**R-1 Program Element (Number/Name)** PE 0903235K / *Joint Service Provider*	**Project (Number/Name)** JSP / *Joint Service Provider*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
FY 2021 Plans: Develop, pilot, and test integrated capabilities and solutions to support the operational requirements of the JSP user base. Supports such efforts as adaptive security architecture, threat intelligence machine learning, runtime application self protection and Desktop as a Service. Improve delivery of IT services and capabilities of an increasingly mobile, application centric knowledge workforce JSP supports in a dynamic environment with advanced persistent cyber threats targeting DoD information networks (DODIN). ***FY 2022 Plans:*** Develop, pilot, and test integrated capabilities and solutions to support the operational requirements of the JSP user base. Supports such efforts as adaptive security architecture, threat intelligence machine learning, runtime application self protection and Desktop as a Service. Improve delivery of IT services and capabilities of an increasingly mobile, application centric knowledge workforce JSP supports in a dynamic environment with advanced persistent cyber threats targeting DoD information networks (DODIN). ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The decrease of -$0.493 from FY 2021 to FY 2022 is due to a reduction in technical evaluation activities.			
Accomplishments/Planned Programs Subtotals	3.090	3.138	2.645

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0604532K / *Joint Artificial Intelligence Center (JAIC)*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	0.000	183.834	137.058	10.033	-	10.033	-	-	-	-	Continuing	Continuing
JA1: *Joint Artificial Intelligence Center (JAIC)*	0.000	183.834	137.058	10.033	-	10.033	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The JAIC was established to preserve and expand our military advantage in support of the Department's 2018 National Defense Strategy (NDS). As a primarily executing body it will accelerate the delivery of Artificial Intelligence (AI) enabled capabilities, scale the Department-wide impact of AI, and synchronize Department of Defense (DoD) AI activities to expand Joint Force advantages. The JAIC mission is to accelerate the delivery of AI to achieve impact scaled across the DoD at relevant speed to transform the DoD and ensure the nation maintains a competitive advantage. JAIC capitalizes on Project Maven's efforts as the pathfinder AI initiative for the DoD to further critical AI architecture and prototyping to rapidly expand AI to other mission areas. As JAIC efforts prove relevant, they will expedite technology transition from the laboratory to operational use, and increase Joint Force capability. Most military data storage, utilization, and analytic tools and systems were designed pre-AI and require specialized integration to enable the insertion of algorithms into their software baseline. JAIC capabilities are commercial technology initiatives that insert commercial AI into existing programs of record.

JAIC will execute an initial sequence of cross-functional use cases to demonstrate value and create momentum, called National Mission Initiatives (NMI). NMIs will rapidly develop and deploy AI across the Joint Force for selected high-priority, pressing operational or business reform challenges. Additionally, JAIC will work closely with individual components to help identify, shape, and accelerate component-specific AI deployments. NMI efforts will include selecting commercial and academic partners for prototypes, and develop standardized processes with respect to data, testing and evaluation, and cybersecurity. JAIC will use lessons learned from these initial projects to establish new processes and standards that will be repeatable across additional projects and immediately relevant to the Joint Force. This will be done in collaboration with partners across technology companies, consulting firms, academia, government labs, Federally Funded Research and Development Centers (FFRDC), services, and international partners.

To support NDS, the JAIC will catalyze and develop AI capabilities to enhance readiness and lethality and ensure DoD maintains an advantage over adversaries. JAIC will spearhead this unique opportunity to expand the competitive space across all domains with AI. JAIC efforts will directly contribute to increased military readiness towards a more lethal Joint Force, it will strengthen alliances and attract new partners by focusing on global problems, and it will enable Departmental reform to increase performance and affordability. JAIC will cultivate workforce talent by recruiting, developing, and retaining high-quality personnel to enable the development and delivery of AI. This will bring critical skills into the department by drawing outside expertise, and leveraging small companies, start-ups, and universities. Implementing AI at a speed of relevance hinges on the ability to integrate AI better than our adversaries, and the JAIC will enable the Department to adapt AI into how it fights. JAIC will focus on speed of delivery, continuous adaptation, and frequent capability delivery sprints. To fully realize this potential, the JAIC will pioneer AI approaches across the full scale of the global enterprise in a manner that is jointly interoperable with allies, partners, military Services, and agencies. Specifically, JAIC will identify and implement new organizational approaches, establish key AI building blocks and standards, develop and attract AI talent, and introduce new operational models that will enable DoD to systematically take advantage of AI at enterprise scale. The JAIC will fulfill the National Security Strategy and NDS to ensure conventional overmatch through dual-use commercial technology and partnered DoD-developed AI. The JAIC will collaborate with non-governmental organizations, corporations, strategic influencers,

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0604532K *I Joint Artificial Intelligence Center (JAIC)*

and partners and allies. JAIC will seize the initiative to lead the world in the development and adoption of transformative defense AI solutions that are safe, ethical, and secure. JAIC will spearhead this effort, engaging with the best minds in government, the private sector, academia, and international community.

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	183.834	132.058	128.049	-	128.049
Current President's Budget	183.834	137.058	10.033	-	10.033
Total Adjustments	0.000	5.000	-118.016	-	-118.016
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	5.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	-118.016	-	-118.016

Change Summary Explanation

The decrease of -$118.010 in FY 2022 reflects a realignment from RDT&E BA 7 (-$106.434) to the newly created BA 8: Software and Digital Technology for the Software Pilot Program. Additional decrease of $-11.582 for re-phasing adjustment (-$10.375) and technical adjustments (-$1.207).

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0604532K / *Joint Artificial Intelligence Center (JAIC)*	Project (Number/Name) JA1 / *Joint Artificial Intelligence Center (JAIC)*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
JA1: *Joint Artificial Intelligence Center (JAIC)*	0.000	183.834	137.058	10.033	-	10.033	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The JAIC was established to preserve and expand our military advantage in support of the Department's 2018 National Defense Strategy. As a primarily executing body it will accelerate the delivery of Artificial Intelligence (AI) enabled capabilities, scale the Department-wide impact of AI, and synchronize DoD AI activities to expand Joint Force advantages. The JAIC mission is to accelerate the delivery of AI to achieve impact scaled across the DoD at relevant speed to transform the DoD and ensure the nation maintains a competitive advantage. JAIC capitalizes on Project Maven's efforts as the pathfinder AI initiative for the DoD to further critical AI architecture and prototyping to rapidly expand AI to other mission areas. As JAIC efforts prove relevant, they will expedite technology transition from the laboratory to operational use, and increase Joint Force capability. Most military data storage, utilization, and analytic tools and systems were designed pre-AI and require specialized integration to enable the insertion of algorithms into their software baseline. JAIC capabilities are commercial technology initiatives that insert commercial AI into existing programs of record.

JAIC will execute an initial sequence of cross-functional use cases to demonstrate value and create momentum, called National Mission Initiatives (NMI). NMIs will rapidly develop and deploy AI across the Joint Force for selected high-priority, pressing operational or business reform challenges. Additionally, JAIC will work closely with individual components to help identify, shape, and accelerate component-specific AI deployments. NMI efforts will include selecting commercial and academic partners for prototypes, and develop standardized processes with respect to data, testing and evaluation, and cybersecurity. JAIC will use lessons learned from these initial projects to establish new processes and standards that will be repeatable across additional projects and immediately relevant to the Joint Force. This will be done in collaboration with partners across technology companies, consulting firms, academia, government labs, Federally Funded Research and Development Centers (FFRDC), services, and international partners.

To support the National Defense Strategy (NDS), the JAIC will catalyze and develop AI capabilities to enhance readiness and lethality and ensure DoD maintains an advantage over adversaries. JAIC will spearhead this unique opportunity to expand the competitive space across all domains with AI. JAIC efforts will directly contribute to increased military readiness towards a more lethal Joint Force, it will strengthen alliances and attract new partners by focusing on global problems, and it will enable Departmental reform to increase performance and affordability. JAIC will cultivate workforce talent by recruiting, developing, and retaining high-quality personnel to enable the development and delivery of AI. This will bring critical skills into the department by drawing outside expertise, and leveraging small companies, start-ups, and universities. Implementing AI at a speed of relevance hinges on the ability to integrate AI better than our adversaries, and the JAIC will enable the Department to adapt AI into how it fights. JAIC will focus on speed of delivery, continuous adaptation, and frequent capability delivery sprints. To fully realize this potential, the JAIC will pioneer AI approaches across the full scale of the global enterprise in a manner that is jointly interoperable with allies, partners, military Services, and agencies. Specifically, JAIC will identify and implement new organizational approaches, establish key AI building blocks and standards, develop and attract AI talent, and introduce new operational models that will enable DoD to systematically take advantage of AI at enterprise scale. The JAIC will fulfill the National Security Strategy and NDS to ensure conventional overmatch through dual-use commercial technology and partnered DoD-developed AI. The JAIC will collaborate with non-

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0604532K / *Joint Artificial Intelligence Center (JAIC)*	**Project (Number/Name)** JA1 / *Joint Artificial Intelligence Center (JAIC)*

governmental organizations, corporations, strategic influencers, and partners and allies. JAIC will seize the initiative to lead the world in the development and adoption of transformative defense AI solutions that are safe, ethical, and secure. JAIC will spearhead this effort, engaging with the best minds in government, the private sector, academia, and international community.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Joint Artificial Intelligence Center (JAIC)	183.834	137.058	10.033

Description: JAIC develops, tests, prototypes and demonstrates innovative AI, Machine Learning (ML), data infrastructure, and model/algorithm test and assessment capabilities to integrate AI capabilities across numerous domains and technical areas including maintenance and supply chain, personnel recovery, infrastructure assessment, geospatial monitoring during disaster, and cyber sense making. JAIC develops and evaluates integrated prototype technologies in realistic operating environments with DoD entities to assess the performance or cost reduction potential of applying such advanced technology to scale across multiple services. JAIC does this by aligning rapid prototype projects under NMIs and leverages existing commercial technology for DoD use, built upon a common architecture that enables the DoD to rapidly scale AI capability.

FY 2021 Plans:
JAIC will begin to transition the lines of effort in the areas of Joint Logistics Operations formally Predictive Maintenance (PMx) and Humanitarian Assistance and Disaster Relief (HA/DR) to service and component partners. These capabilities are expected to be available on the Joint Common Foundation (JCF) for reuse by many. As soon as an NMI has fully transitioned ongoing lines of effort, those JAIC resources will be aligned to kick off new AI Capability lines of effort in accordance with the direction of the DOD AI ESG. The JAIC will mature AI enabled capabilities in the National Mission Initiative Areas of Joint Information Warfare formally Cyber Sense-making, Business Process Transformation formally Intelligence Business Automation, Joint Warfighting Opearations and Warfighter Health and will begin to plan and prepare for their transition to component transition partners. The JAIC will begin up to 5 new lines of effort within the six National Mission areas. By FY21, 90% of NMIs Development and Test will be accomplished in the JCF. The JCF will provide a collaboration portal for the DoD, a registry for DoD AI Projects and optimized JCF virtual environments provisioned with the right tools, suited to the users and developers assigned to given project. In FY21 the JCF will begin testing capabilities on the SIPR domain.
In FY21 the JAIC will continue the Joint Information Warfare formally Cyber Sense-making NMI that was begun in FY20 to shrink timelines for cyber-threat situational awareness using AI anomaly detection and network exploration techniques. In FY21 the NMI will leverage the CSSP gold standard benchmark dataset, and the completed GOTS assessments o AI-enabled cyber threat detection applications to deploy the highest performing tools and models, along with the lessons learned, to the Joint Common Foundation for wide-spread adoption.
In FY21 the JAIC will begin the Business Process Transformation formally Intelligent Business Automation (IBA) NMI to increase the effectiveness and efficiency of routine tasks by enabling DoD staff to use robotic process automation (RPA) and other AI tools. In FY21, based on the most promising RPA technologies and workflows, this NMI will gain temporary authority to operate (ATO) and authority to connect (ATC), and will conduct operational experiments. The Intelligent Business Automation (IBA) will deliver

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0604532K / *Joint Artificial Intelligence Center (JAIC)*	**Project (Number/Name)** JA1 / *Joint Artificial Intelligence Center (JAIC)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
a platform of Robotic Process Automation (RPA) services and platform to save manhours, reduce routine errors in back-office processes. In FY21 the JAIC will continue the Joint Warfighting NMI started in FY20 to increase the speed, precision and agility of warfighting through improved Joint All-Domain Command and Control (JADC2), the autonomous application of systems, sensors, and targeting solutions, and accelerated AI-enabled mission command. The Joint Warfighting NMI will continue to develop and mature the application platform for JADC2 using open-API tools to automate the fusion and curation of a unified purpose-built information set. Based on the FY20 assessment of current tools, techniques and data sources within scope for the JADC2 platform, the approved architecture and a repeatable data curation and fusion pipeline, the JW NMI will design and build AI enabled workflows related to the identification, tracking and targeting within a well understood and appropriately governed data-driven command and control eco system. In FY21 the JAIC will continue the Warfighter Health NMI to accelerate health classification, individual diagnoses, and enable resilient field medicine. In FY21, this NMI will leverage the structured Medical Readiness repository of data created in FY20 to reduce the time it takes to perform Readiness and Disability Adjudications hours to minutes per warfighter. In FY21 this NMI will expand on early successes dynamically classifying disabling conditions. The NMI will leverage the Medical Readiness data, architecture, and repeatable AI pipeline to train a machine to recognize all 50 categorically disabling conditions, in anticipation of wide deployment during subsequent fiscal years. ***FY 2022 Plans:*** In FY22, Joint Information Warfare formally Cyber Sensemaking/ JAIC will further support integration of AI/ML MISO solutions for effective understanding, messaging, and influencing within the changing information environment. The JAIC will also align resources to kick off new AI capability lines of effort in accordance with the direction of the DOD AI Executive Steering Group (ESG). The JAIC will continue development of AI/ML products ANMVIS, BlueVector, MADHAT, Cyber Data Framework, Analytic Support Officers (ASO) Ecosystem Concept, and Medifor. The Threat Reduction and Protection formally the Humanitarian Assistance/Disaster Relief (HA/DR) will continue efforts building AI Capability in the areas of Damage Assessment, Full Motion Video, and Search and Rescue and continue development of Damage Assessment and Road Obstruction Product Line. JAIC will continue development efforts and work towards a Joint Common Foundation (JCF) Enterprise Environment and Full Operating Capability (FOC) by FY22. In FY22, the Joint Warfighting Operations Initiative will continue to develop and begin to transition AI/ML products lines Target Development, Wargaming, Gargoyle, Precision Targeting, and The Assistant Secretary of the Air Force (Acquisition, Technology and Logistics) (SAF/AQ) to mission partners. The JAIC will also continue resourcing AI/ML products in the areas of Electromagnetic Spectrum Operations (EMSO) and Strategic Mobility in accordance with the direction of the DOD AI Wxecutive Steering Group (ESG). In FY22, The Joint Warfighting Operations mission initiative will deliver the Terrestrial Reconnaissance and Surveillance and sUAS product to partners for field testing, complete field testing and deliver to Army G-Boss Program office and service program. Integrate Strategy Robot into ATO, Joint Staff J8 - User Interface for existing air-to-air Force Structure			

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0604532K / *Joint Artificial Intelligence Center (JAIC)*	**Project (Number/Name)** JA1 / *Joint Artificial Intelligence Center (JAIC)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Planning Tool and Joint Staff J8 - All-Domain Force Structure Planning Tool. Project Smart Sensor - Full- onboard processing and navigation and transition to U.S. Air Force Special Operations Command Program Executive Office Fixed Wing (AFSCO PEO FW) and MQ-9 Reaper Drone (MQ-9) System Program Office (SPO). In FY22, The Warfighter Health mission initiative will work with the Defense Health Agency (DHA) to transition the initial rollout of Medical Imagery Analysis to Military medical diagnosis facilities. The JAIC will continue work in Medical Imaging, Suicide Intervention & Prevention, Point of Injury Decision Support, and Data Commons AI/ML products. In FY22, The JAIC's Business Process Transformation initiatve will work with the DoD Comptroller's Advanced Analytics (ADVANA) Team, Office of Chief Management Officer (OCMO)/Washington Headquarters Services, OCMO/Data Insights Directorate, and Undersecretary Defense for Intelligence USD(I) and will begin to test and integrate GAMECHANGER with multiple user groups. The JAIC will also continue to development of Humanless Unmatched Transactions (HUnT), Acquisition Alert, MyNavy HR, and Army Talent Assignment Recommender and begin transition efforts to partners. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The decrease of -$127.025 from FY 2021 to FY 2022 reflects a realignment from RDT&E BA 7 (-$106.434) to the newly created BA 8: Software and Digital Technology for the Software Pilot Program. A decrease of $-11.582 for re-phasing adjustment (-$10.375) and technical adjustments (-$1.207). Also a decrease of $-5.000 is due to the one-time cost for the geo-analytics effort in FY 2021, additional decrease attributed to the transition of two Predictive Maintenance/Joint Logistics Operations AI products, the H-60 Engine Health Model to the US Army 160th SOAR and Fort Rucker Aviation Center of Excellence. (-$4.009).			
Accomplishments/Planned Programs Subtotals	183.834	137.058	10.033

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The JAIC acquisition, management, and contracting strategy follows guidance outlined in the DoD 5000 series directives, Federal Acquisition Regulation (FAR) and FAR supplement policies and procedures. Management uses project management tools and meetings to ensure delivery of stated capabilities and performance criteria.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0604532K / *Joint Artificial Intelligence Center (JAIC)*	Project (Number/Name) JA1 / *Joint Artificial Intelligence Center (JAIC)*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development	C/Various	TBD : TBD	-	183.834	Mar 2020	137.058	Mar 2021	10.033	Mar 2022	-		10.033	Continuing	Continuing	Continuing
		Subtotal	-	183.834		137.058		10.033		-		10.033	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	183.834		137.058		10.033		-		10.033	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0604532K / *Joint Artificial Intelligence Center (JAIC)*	**Project (Number/Name)** JA1 / *Joint Artificial Intelligence Center (JAIC)*

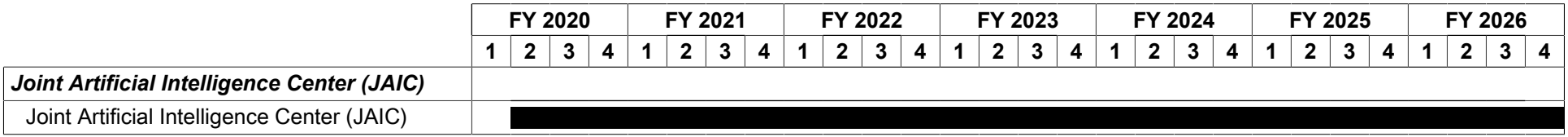

Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0604532K / *Joint Artificial Intelligence Center (JAIC)*	**Project (Number/Name)** JA1 / *Joint Artificial Intelligence Center (JAIC)*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Joint Artificial Intelligence Center (JAIC)				
Joint Artificial Intelligence Center (JAIC)	2	2020	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0208045K / *C4I Interoperability*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	870.372	67.128	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing
T30: *MRTFB Test and Evaluation*	192.870	7.584	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing
T40: *Major Range Test Facility Base Operations*	677.502	59.538	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing
COVID: *COVID-19*	0.000	0.006	0.000	0.000	-	0.000	-	-	-	-	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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	67.128	0.000	0.000	-	0.000
Current President's Budget	67.128	0.000	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

No vertical statement required.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
T30: *MRTFB Test and Evaluation*	192.870	7.584	0.000	0.000	-	0.000	-	-	-	-	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 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0208045K / *C4I Interoperability*	**Project (Number/Name)** T30 / *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 2020	FY 2021	FY 2022
Title: DoD's Joint Interoperability Certification Authority ***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.	6.664	-	-
Title: Operational Test and Evaluation	0.800	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
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 2020	FY 2021	FY 2022
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.			
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.	0.120	-	-
Accomplishments/Planned Programs Subtotals	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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
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 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 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	-		-		-		-	0.000	16.605	-
Test and Evaluation	Option/ CPFF	ALION SCIENCE & TECH CORP : Various	0.036	-		-		-		-		-	0.000	0.036	-
Test and Evaluation	Option/ CPFF	AMERICAN SYSTEMS CORP : Various	0.426	-		-		-		-		-	0.000	0.426	-
Test and Evaluation	Option/ CPFF	MANTECH TELECOMMUNICATIONS AND INFORMATION : Various	1.713	-		-		-		-		-	0.000	1.713	-
Test and Evaluation	Option/ CPFF	OBERON ASSOCIATES : Various	0.357	-		-		-		-		-	0.000	0.357	-
Test and Evaluation	Option/ CPFF	TASC, INC : Various	6.242	-		-		-		-		-	0.000	6.242	-
		Subtotal	130.510	1.529		-		-		-		-	0.000	132.039	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0208045K / *C4I Interoperability*	Project (Number/Name) T30 / *MRTFB Test and Evaluation*	

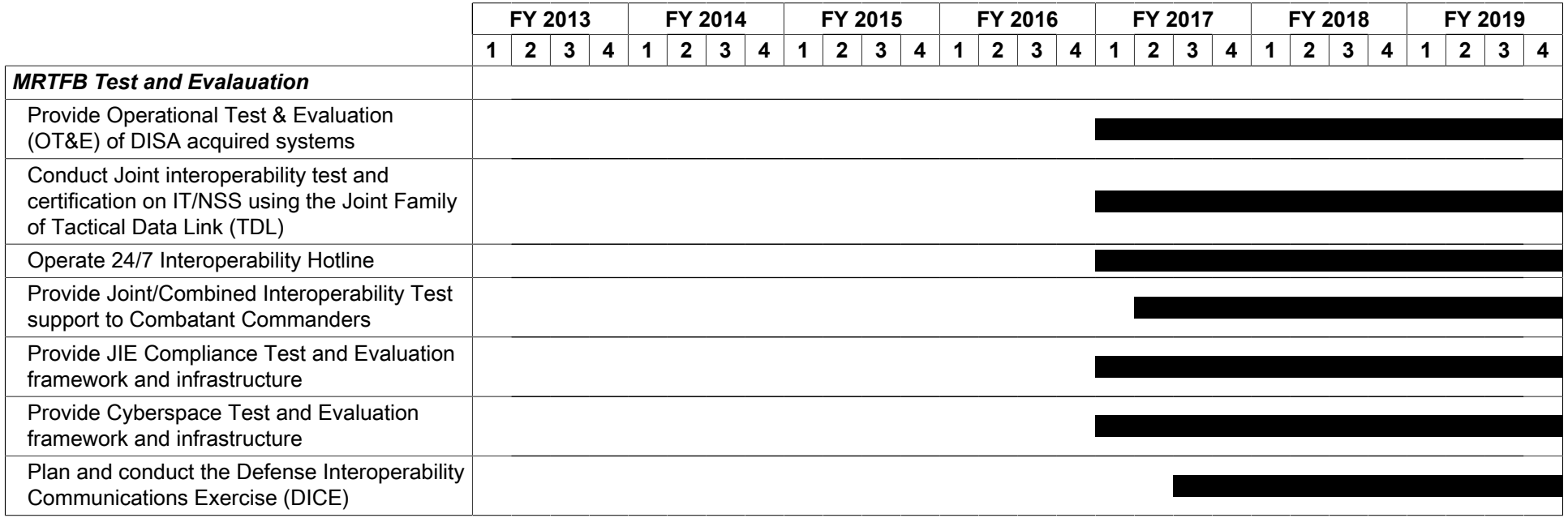
Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Managment Services	C/Various	Defense Information Systems Agency : Various	62.360	6.055	Oct 2019	-		-		-		-	0.000	68.415	-
		Subtotal	62.360	6.055		-		-		-		-	0.000	68.415	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	192.870	7.584		0.000		-		-		-	0.000	200.454	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0208045K / *C4I Interoperability*	**Project (Number/Name)** T30 / *MRTFB Test and Evaluation*



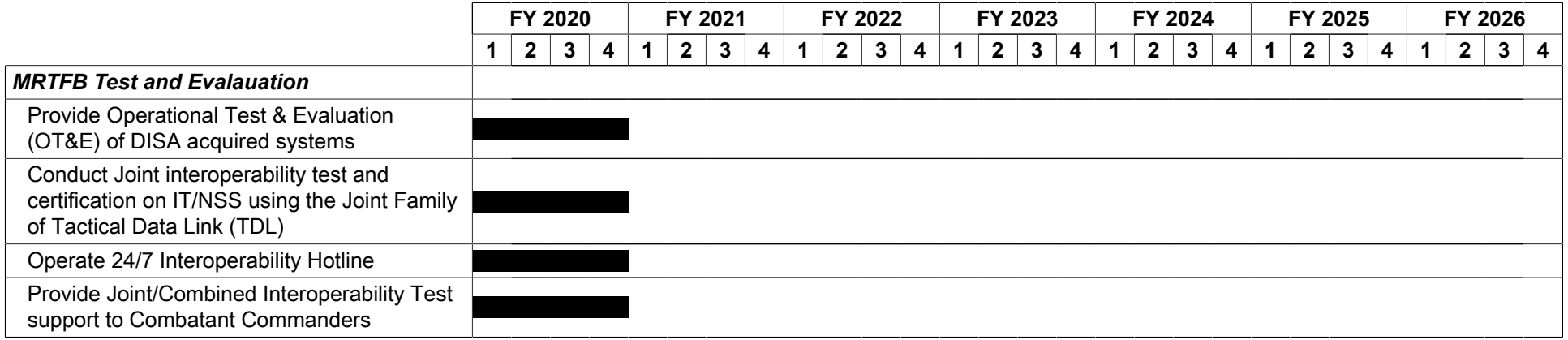


Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0208045K / *C4I Interoperability*	**Project (Number/Name)** T30 / *MRTFB Test and Evaluation*

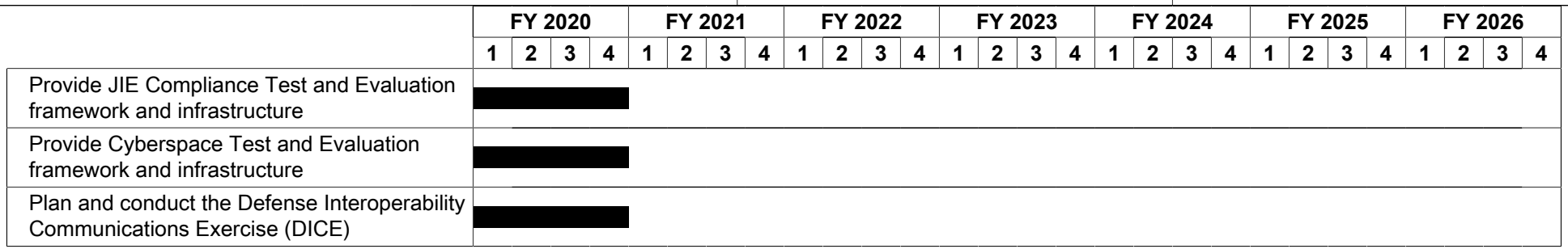


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0208045K / *C4I Interoperability*	**Project (Number/Name)** T30 / *MRTFB Test and Evaluation*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
MRTFB Test and Evalauation				
Provide Operational Test & Evaluation (OT&E) of DISA acquired systems	1	2017	4	2020
Conduct Joint interoperability test and certification on IT/NSS using the Joint Family of Tactical Data Link (TDL)	1	2017	4	2020
Operate 24/7 Interoperability Hotline	1	2017	4	2020
Provide Joint/Combined Interoperability Test support to Combatant Commanders	2	2017	4	2020
Provide JIE Compliance Test and Evaluation framework and infrastructure	1	2017	4	2020
Provide Cyberspace Test and Evaluation framework and infrastructure	1	2017	4	2020
Plan and conduct the Defense Interoperability Communications Exercise (DICE)	3	2017	4	2020

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
T40: *Major Range Test Facility Base Operations*	677.502	59.538	0.000	0.000	-	0.000	-	-	-	-	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 2020	FY 2021	FY 2022
Title: MRTFB Improvements and Operations	59.538	-	-
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.			
Accomplishments/Planned Programs Subtotals	59.538	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
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*

C. Other Program Funding Summary ($ in Millions)

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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency		Date: May 2021
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 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 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	0.617	-		-		-		-		-	0.000	0.617	-
Test and Evaluation 6	Option/ CPFF	AMERICAN SYSTEMS COPR : Various	1.559	-		-		-		-		-	0.000	1.559	-
Test and Evaluation 7	Option/ CPFF	MANTECH TELECOMMUNICATIONS AND INFORMATION : Various	9.903	-		-		-		-		-	0.000	9.903	-
Test and Evaluation 8	Option/ CPFF	OBERON ASSOCIATES : Various	12.980	-		-		-		-		-	0.000	12.980	-
Test and Evaluation 9	Option/ CPFF	TASC, INC. : Various	3.951	-		-		-		-		-	0.000	3.951	-
Test and Evaluation 10	Option/ CPFF	BEACON GROUP SW, INC : Various	29.074	-		-		-		-		-	0.000	29.074	-
Test and Evaluation 11	Option/ CPFF	Multiple : Various	12.001	-		-		-		-		-	0.000	12.001	-
Test and Evaluation 12	C/CPFF	Various : Various	33.741	33.226	Nov 2020	-		-		-		-	0.000	66.967	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency		Date: May 2021
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 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	382.520	33.226		-		-		-		-	0.000	415.746	N/A

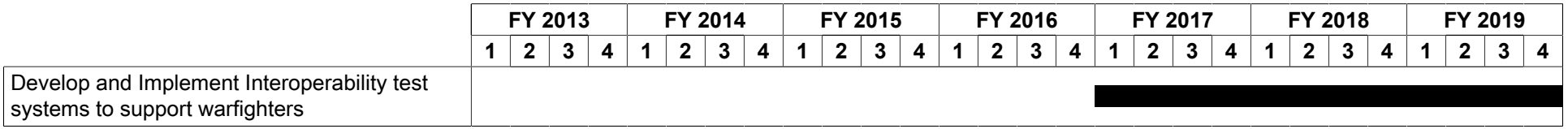
Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Services	Various	Defense Information Systems Agency : Ft. Huachuca, AZ	294.982	26.312	Oct 2019	-		-		-		-	0.000	321.294	-
		Subtotal	294.982	26.312		-		-		-		-	0.000	321.294	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	677.502	59.538		0.000		-		-		-	0.000	737.040	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
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*



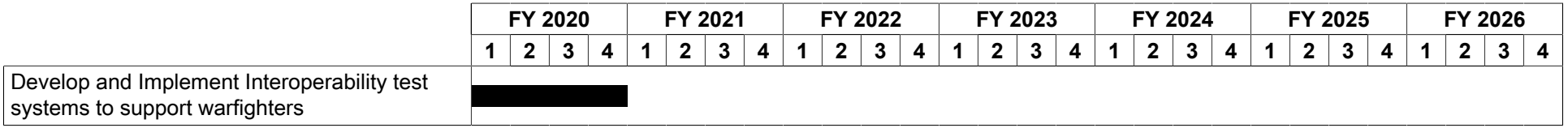


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0208045K / *C4I Interoperability*	**Project (Number/Name)** T40 / *Major Range Test Facility Base Operations*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
Develop and Implement Interoperability test systems to support warfighters	1	2017	4	2020

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0208045K / *C4I Interoperability*	Project (Number/Name) COVID / *COVID-19*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
COVID: *COVID-19*	0.000	0.006	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: COVID-IT-0069 ***Description:*** Provide a secure means of mobile communication for JITC's leadership to maintain situational awareness as well as to coordinate and direct the organization's response to higher headquarters taskings and to local situations that arise in preparation for or in response to the ongoing pandemic. Much of the required information exchange will be via secure email as it involves unit readiness or the PHI of affected personnel. Without the DMCC phones, the command's only option will be to keep more personnel on-site risking each to unnecessary exposure to the virus.	0.006	-	-
Accomplishments/Planned Programs Subtotals	0.006	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0208045K / *C4I Interoperability*	Project (Number/Name) COVID / *COVID-19*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
COVID-19	Option/ FFP	TBD : TBD	-	0.006	Sep 2020	-		-		-		-	Continuing	Continuing	-
		Subtotal	-	0.006		-		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	0.006		0.000		-		-		-	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0208045K / *C4I Interoperability*	**Project (Number/Name)** COVID / *COVID-19*

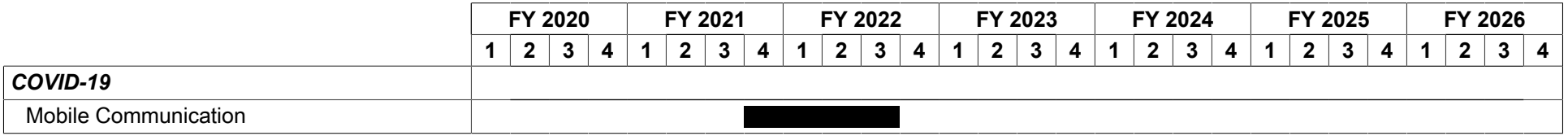


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0208045K / *C4I Interoperability*	**Project (Number/Name)** COVID / *COVID-19*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
COVID-19				
Mobile Communication	4	2021	3	2022

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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	179.181	10.798	16.324	16.233	-	16.233	-	-	-	-	Continuing	Continuing
E65: *Modeling and Simulation*	107.075	2.109	4.068	4.101	-	4.101	-	-	-	-	Continuing	Continuing
T62: *DoD Information Network (DODIN) Systems Engineering and Support*	72.106	8.689	12.256	9.997	-	9.997	-	-	-	-	Continuing	Continuing
T-0010: *Enterprise Messaging*	0.000	0.000	0.000	2.135	-	2.135	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Information Infrastructure Engineering and Integration effort encompasses two projects: Modeling and Simulation and DoD Information Network (DODIN) Systems Engineering and Support. There are two major activities under the Modeling and Simulation project: Modeling and Simulation and DODIN Enterprise Wide Systems Engineering (EWSE).

The DODIN EWSE activity resolves near term (one to three years) high-priority technical issues defined by DoD Chief Information Officer (DoD CIO) and Defense Information Systems Agency (DISA), that impact operational capabilities affecting DODIN End-to-End (E2E) interoperability and performance.

The Modeling and Simulation project provides architecture, systems engineering and E2E analytical functions for DISA and its customers, ensuring integrated capabilities to fulfill warfighter mission requirements. Ongoing beneficiaries of these capabilities include DoD CIO, the DISA Network Services Directorate, the DISA Enterprise Services Directorate, Program Executive Office-Mission Assurance, the Defense Information Systems Network Command Center and Joint Communications Simulation System users in DoD.

The DODIN Systems Engineering and Support project performs discovery, research, development and experimentation of emerging and commercial technologies through the Office of the Chief Technology Officer (OCTO) Emerging Technology Directorate (EM) (formerly OCTO) to fill capability shortfalls and technology gaps across the Future Years Defense Program (FYDP). EM identifies these gaps/shortfalls, pursues leading innovative solutions from industry, academia, and the Federal sector, and engages industry partners for commercial best practices. EM conducts technical system engineering reviews and oversight of DISA and DoD enterprise products and services. EM resolves mission partner gaps and agency challenges requiring technical and/or process innovation in Machine Learning/Artificial Intelligence (AI), Mobility, Assured Identity, Rapid Transition, Cyber Defense, and Blockchain among other technologies.

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	10.798	16.324	16.538	-	16.538
Current President's Budget	10.798	16.324	16.233	-	16.233
Total Adjustments	0.000	0.000	-0.305	-	-0.305
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	-0.305	-	-0.305

Change Summary Explanation

The decrease of -$0.305 in FY 2022 is due a reduction in technical contract support.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	Project (Number/Name) E65 / *Modeling and Simulation*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
E65: *Modeling and Simulation*	107.075	2.109	4.068	4.101	-	4.101	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Modeling and Simulation project provides architecture, systems engineering and end-to-end (E2E) analytical functions for the Defense Information Systems Agency (DISA) and its customers, ensuring integrated capabilities to fulfill warfighter mission requirements. Modeling and Simulation activities support the Department of Defense (DoD) communications planning and investment strategy, including: application performance assessments, contingency planning, network capacity planning and diagnostics, and systems-level modeling and simulation. Project efforts provide across-theater information awareness for Combatant Commands through application solutions for integrated networks, including DoD's missions in Afghanistan and the Defense Information Systems Network (DISN) by: (1) supporting the development and implementation of DoD Information Network (DODIN) Enterprise Wide Systems Engineering (EWSE) processes essential to evolving the DODIN in a manner that enables interoperability and E2E performance for critical DODIN programs; (2) developing standardized DISA systems analyses and integration processes to improve systems integration across DISA for all DISA developed communication systems and services; and (3) providing the underlying modeling and simulation and analytical support for E2E DISA and DoD systems engineering and assessment.

Project efforts provide DoD decision makers with services and a suite of tools capable of identifying key points of impact on DoD command and control information systems and recommending trade-offs within the DODIN configuration with regard to prioritized performance, availability, and security. This effort will reduce the risk in products deployed to the warfighter through improved network performance and traffic analysis, and an efficient means of troubleshooting and subsequent redesign.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Modeling and Simulation	2.109	4.068	4.101
Description: The Modeling and Simulation project provides architecture, systems engineering and end-to-end (E2E) analytical functions for the Defense Information Systems Agency (DISA) and its customers, ensuring integrated capabilities to fulfill warfighter mission requirements. Modeling and Simulation activities support the Department of Defense (DoD) communications planning and investment strategy, including: application performance assessments, contingency planning, network capacity planning and diagnostics, and systems-level modeling and simulation. Project efforts provide across-theater information awareness for Combatant Commands through application solutions for integrated networks, including DoD's missions in Afghanistan and the Defense Information Systems Network (DISN) by: (1) supporting the development and implementation of DoD Information Network (DODIN) Enterprise Wide Systems Engineering (EWSE) processes essential to evolving the DODIN in a manner that enables interoperability and E2E performance for critical DODIN programs; (2) developing standardized DISA systems analyses and integration processes to improve systems integration across DISA for all DISA developed communication systems and services; and (3) providing the underlying modeling and simulation and analytical support for E2E DISA and DoD systems engineering and assessment.			

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** E65 / *Modeling and Simulation*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
FY 2021 Plans: Revision of DoD Cybersecurity Analysis and Review (DoDCAR) analysis tools and testing of implementations of DoDCAR based cyber architecture and system assessment methods. This effort will develop add Mil-Cloud networking, and the evaluation of network security solutions. Will expand the testing of Mil-Cloud access point solutions with government and contracted labor support. Will perform additional product and solution testing. Will evaluate performance monitoring framework to support reliable operation of enterprise services and applications. This task will develop continued assessment, testing, prototype improvement and implementation of DoDCAR processes. This includes portfolio management against threat coverage of DoD Networks. Will continue fielding modeling tools integrated with the DISN for automated DISN views and troubleshooting tools. Will develop modeling and simulation tools to analyze planned changes to the DISN optical and IP core network, data centers, internet and commercial cloud computing gateways, and network security solutions. Will develop capabilities for analysis of software defined networking. Will perform test and evaluation of DISN Internet Access Point security solutions with government and contracted labor support. Will research technologies and solutions that can be transitioned to operations and will demonstrate feasibility through solutions analysis and proof-of-concept development and test. Will perform product and solution assessments using developed modeling tools to provide technical solutions for IT capabilities to ensure compatibility and interoperability with the DISN, on-premise and cloud data centers, and JIE solution architectures. Will develop application performance monitoring to support reliable operation of enterprise services and applications.			
FY 2022 Plans: Will continue fielding modeling tools integrated with the DISN for automated DISN views and troubleshooting tools and begin migration to cloud based development and monitoring tools. Will develop modeling and simulation tools to analyze planned changes to the DISN optical and IP core network, data centers, internet and commercial cloud computing gateways, universal gateways, enterprise services, and network security solutions. Will develop capabilities for analysis of software defined networking. Will perform test and evaluation of DISN Internet Access Point security solutions with government and contracted labor support. Will research technologies and solutions that can be transitioned to operations and will demonstrate feasibility through solutions analysis and proof-of-concept development and test. Will perform product and solution assessments using developed modeling tools to provide technical solutions for IT capabilities to ensure compatibility and interoperability with the DISN, on-premise and cloud data centers, and JIE solution architectures. Will develop application performance monitoring to support reliable operation of enterprise services and applications.			
FY 2021 to FY 2022 Increase/Decrease Statement: The increase of +$0.033 from FY 2021 to FY 2022 is due to additional efforts to develop and test cloud defensive cyber operations performance metrics.			
Accomplishments/Planned Programs Subtotals	2.109	4.068	4.101

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** E65 / *Modeling and Simulation*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• PE 0302019K: *Operation & Maintenance, Defense-Wide*	16.579	16.911	-	-	-	-	-	-	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

Enterprise Wide Systems Engineering (EWSE) uses contractors to assist/supplement the Government lead/team for technical activities. Subject matter experts in both large and small businesses are sought for the engineering support. Firm fixed price contracts with one option year are typically used in open competition. Furthermore, technical work with Federally Funded Research and Development Centers (FFRDCs) such as MITRE and MIT Lincoln Lab are established and coordinated when the Government can leverage their expertise and R&D in the key technology.

Modeling and Simulation uses a range of contractors for modeling support to the various projects. Contractors range from small to large business, predominantly using open competition methods and Firm Fixed Price (FFP) tasks and utilizing multi-year (base plus option years) contracts where possible. Support includes network modeling tool and processes development to adapt to ever-evolving DoD programs and projects, analyses, capacity planning, and network redesign using the models. Some specific support (e.g., integration with proprietary software) will require contracting with OPNET (e.g., sole source). Federally Funded Research and Development Centers (FFRDCs) are also considered depending upon the task.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** E65 / *Modeling and Simulation*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development 1	SS/FFP	OPNET Tech, Inc : Bethesda, MD	10.245	0.218	Feb 2020	0.276	Feb 2021	0.276	Feb 2022	-		0.276	Continuing	Continuing	Continuing
Product Development 2	C/CPFF	APPTIS : Chantilly, VA	3.851	0.087	Feb 2020	0.187	Feb 2021	0.187	Feb 2022	-		0.187	Continuing	Continuing	Continuing
Product Development 3	SS/FFP	Falls Church, VA : Falls Church, VA	1.312	-		-		-		-		-	0.000	1.312	-
Product Development 4	C/FFP	Booz Allen, Hamilton : McLean, VA	5.193	0.170	Feb 2020	0.250	Feb 2021	0.250	Feb 2022	-		0.250	Continuing	Continuing	Continuing
Product Development 5	C/FFP	NRL : Washington, DC	0.100	-		-		-		-		-	0.000	0.100	-
Product Development 6	C/CPFF	Soliel, LLC : Reston, VA	3.862	-		-		-		-		-	0.000	3.862	-
Product Development 7	C/FFP	COMPTEL : Arlington, VA	2.805	-		-		-		-		-	0.000	2.805	-
Product Development 8	C/CPFF	COMPTEL : Arlington, VA	0.926	-		-		-		-		-	0.000	0.926	-
Product Development 9	C/CPFF	MIT Lincoln Labs : Cambridge, MA	13.299	-		-		-		-		-	0.000	13.299	-
Product Development 10	MIPR	Various : Various	11.268	-		-		-		-		-	0.000	11.268	-
Enterprise Wide Systems Engineering 11	C/FFP	Northrop Grumman : Fairfax, VA	1.784	-		-		-		-		-	0.000	1.784	-
Clear Sky Pilot	C/CPFF	AFRL Terremark : Various	24.083	-		-		-		-		-	0.000	24.083	-
Narus	C/CPFF	AFRL : Rome, NY	1.450	-		-		-		-		-	0.000	1.450	-
Cyber Accelerator	C/CPFF	DTIC : Alexandria, VA	7.516	-		-		-		-		-	0.000	7.516	-
Commercial Integration Demonstration	C/CPFF	DTIC : Alexandria, VA	2.750	-		-		-		-		-	0.000	2.750	-
Web Content Filtering: Perimeter Defense Integration	C/FFP	Oberon Associates : Ft. Meade, MD	1.854	-		-		-		-		-	0.000	1.854	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** E65 / *Modeling and Simulation*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Host Based Security Ops Assessment	C/FFP	Summit Technologies, Inc : Ft Meade, MD	0.700	-		-		-		-		-	0.000	0.700	-
Secure Configuration Management Ops Assessment	C/FFP	Cyber Security research and Solutions Corp : Ft Meade	0.964	-		-		-		-		-	0.000	0.964	-
Product Development 11	C/CPFF	Johns Hopkins University Applied Physics : Laurel, MD	0.861	-		-		-		-		-	0.000	0.861	-
Engineering Technical Services	MIPR	Axom Technologies : Fort Meade	1.150	-		-		-		-		-	0.000	1.150	-
Requirements Analysis/ Program Management: Civilian Pay	MIPR	Various : Various	1.537	0.520	Feb 2020	-		-		-		-	Continuing	Continuing	Continuing
Cloud Hosted Shared Services	C/FFP	Nisga's Data Systems LLC : Herndon, VA	1.350	-		-		-		-		-	0.000	1.350	-
Cloud/ Gateway Pilot	C/FFP	Alvarez and Associates : Tysons Corner, VA	0.304	-		-		-		-		-	0.000	0.304	-
Cloud/ Gateway Pilot	C/FFP	BY Light Professional IT Services : : Arlington, VA	0.413	-		-		-		-		-	0.000	0.413	-
DoDCAR	C/FFP	TBD : TBD	-	-		-		-		-		-	Continuing	Continuing	-
		Subtotal	99.577	0.995		0.713		0.713		-		0.713	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** E65 / *Modeling and Simulation*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
IP Network Modeling	SS/FFP	Riverbed : Bethesda, MD	2.073	0.588	Sep 2020	1.504	Sep 2021	2.036	Sep 2022	-		2.036	Continuing	Continuing	-
JCSS/JRSS Modeling	C/FFP	Booz Allen, Hamilton : McLean, VA	2.377	0.251	May 2020	1.210	May 2021	1.210	May 2022	-		1.210	Continuing	Continuing	-
JRSS Modeling	C/FFP	IPKEYS : Annapolis Junction, MD	0.373	-		-		-		-		-	0.000	0.373	-
E2E Performance	C/FFP	Tapestry : Chambersburg, PA	0.251	-		0.499	Oct 2020	-		-		-	0.000	0.750	-
E2E Performance	C/FFP	Various : Various	0.352	0.275	Oct 2019	0.142	Oct 2020	0.142	Oct 2021	-		0.142	Continuing	Continuing	-
		Subtotal	5.426	1.114		3.355		3.388		-		3.388	Continuing	Continuing	N/A

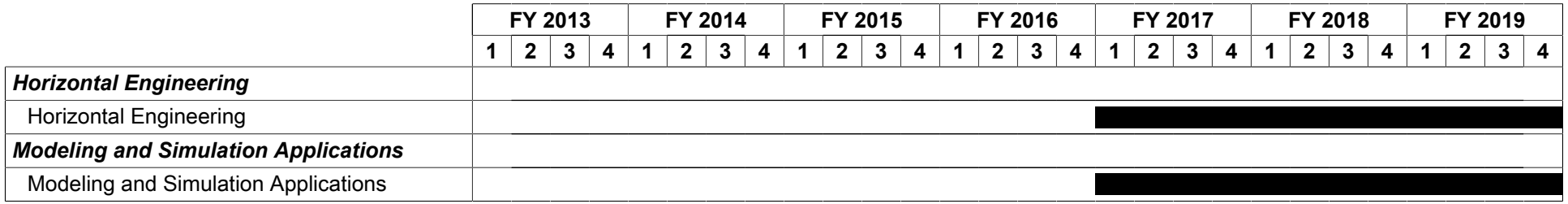
Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	SS/CPFF	Comptel : Arlington, VA	2.072	-		-		-		-		-	0.000	2.072	-
		Subtotal	2.072	-		-		-		-		-	0.000	2.072	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	107.075	2.109		4.068		4.101		-		4.101	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** E65 / *Modeling and Simulation*



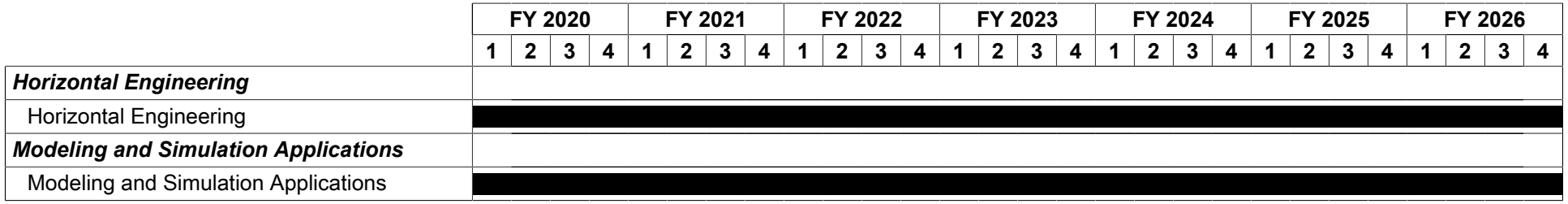


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** E65 / *Modeling and Simulation*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Horizontal Engineering				
Horizontal Engineering	1	2017	4	2026
Modeling and Simulation Applications				
Modeling and Simulation Applications	1	2017	4	2026

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	Project (Number/Name) T62 / *DoD Information Network (DODIN) Systems Engineering and Support*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
T62: *DoD Information Network (DODIN) Systems Engineering and Support*	72.106	8.689	12.256	9.997	-	9.997	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The DoD Information Network (DODIN) Systems Engineering and Support project identifies key technology areas that are essential for Defense Information Systems Agency (DISA) including: Machine Learning/Artificial Intelligence (AI), Mobility, Assured Identity, Rapid Transition, Cyber Defense, and Blockchain among other technologies.

The DODIN Systems Engineering and Support Project ensure the technical strategies for the Defense Information Systems Agency (DISA) are in line with the DoD IT Efficiency strategy and the latest Department of Defense Chief Information Office (DoD CIO) Capabilities Planning Guidance (CPG) through the Emerging Technology Directorate (EM). These strategies will establish the foundation for DISA's technology investments and technical development. The EM leverages emerging technology to drive efficiencies and cost savings to the DoD, the Warfighter, and other Federal Agencies, and provides actionable, decision-oriented information to the Secretary of Defense, Joint Staff, Military Services, Combatant Commands, and other mission partners in satisfying DoD mission objectives.

Cyber security and cloud computing present critical near term challenges, especially the ability to securely leverage commercial cloud service offerings. The EM's partnership with Defense Advanced Research Projects Agency (DARPA) will assess and transition technologically relevant and mature solutions. Included are applications with a security wrapper that detect and mitigate cyberattacks; smart routing and managed reputation capability; embedded system defense capabilities; and resilient and intrusion-tolerant network capabilities.

Partnerships with industry, academia, and the Federal sectors will produce requisite cyber measures and ensure optimal use of commercial cloud services. The EM will conduct technology assessments, process improvements, as well as the analysis and review of potential technology solutions, products, capabilities and services to ensure consistency with DODIN architecture and standards. Enabled by the Technology Assessment Framework (TAF) and the DISA Technology Information Repository (DTIR), the EM will perform "quick looks" and deeper technology evaluations to provide critical awareness, characterization, and suitability of specific technologies. These include the assessments of advanced cloud management capabilities; physical containers to enable mobile data center; emerging open source Storage Service Application Programming Interfaces (APIs) and/or abstractions and global standards for storage services; analytic platform performance baselines of emerging commercial analytic platform products; advanced approaches to Continuity of Operations (COOP) in a hybrid cloud environment; and the next generation software defined networks for automating and virtualizing the DODIN.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Department of Defense Information Network (DODIN) Systems Engineering and Support	8.689	12.256	9.997

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T62 / *DoD Information Network (DODIN) Systems Engineering and Support*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022

Description: The DoD Information Network (DODIN) Systems Engineering and Support project aligns with the updated DISA Strategic Plan, which includes the Chief Technology Officer's Outlook and a Technology Watchlist. The Watchlist identifies key technology areas that are essential for Defense Information Systems Agency (DISA) including: Process/Automation, Cloud, Cyber Security, End-User Devices, and Communication (DODIN, Mobile/End-User Devices).

The DODIN Systems Engineering and Support Project ensure the technical strategies for the Defense Information Systems Agency (DISA) are in line with the DoD IT Efficiency strategy and the latest Department of Defense Chief Information Office (DoD CIO) Capabilities Planning Guidance (CPG) through the Office of the Chief Technology Officer (OCTO). These strategies will establish the foundation for DISA's technology investments and technical development. The OCTO leverages emerging technology to drive efficiencies and cost savings to the DoD, the Warfighter, and other Federal Agencies, and provides actionable, decision-oriented information to the Secretary of Defense, Joint Staff, Military Services, Combatant Commands, and other mission partners in satisfying DoD mission objectives.

Cyber security and cloud computing present critical near term challenges, especially the ability to securely leverage commercial cloud service offerings. The OCTO's partnership with Defense Advanced Research Projects Agency (DARPA) will assess and transition technologically relevant and mature solutions. Included are applications with a security wrapper that detect and mitigate cyberattacks; smart routing and managed reputation capability; embedded system defense capabilities; and resilient and intrusion-tolerant network capabilities.

Partnerships with industry, academia, and the Federal sectors will produce requisite cyber measures and ensure optimal use of commercial cloud services. The OCTO will conduct technology assessments, process improvements, as well as the analysis and review of potential technology solutions, products, capabilities and services to ensure consistency with DODIN architecture and standards. Enabled by the Technology Assessment Framework (TAF) and the DISA Technology Information Repository (DTIR), the OCTO will perform "quick looks" and deeper technology evaluations to provide critical awareness, characterization, and suitability of specific technologies. These include the assessments of advanced cloud management capabilities; physical containers to enable mobile data center; emerging open source Storage Service Application Programming Interfaces (APIs) and/or abstractions and global standards for storage services; analytic platform performance baselines of emerging commercial analytic platform products; advanced approaches to Continuity of Operations (COOP) in a hybrid cloud environment; and the next generation software defined networks for automating and virtualizing the DODIN. The Agency's internal innovation suggestion program, DISAruptive, previously resourced by available government civilian time, will be revamped in FY2019 with relaunch by FY20 to deliver technical expertise and including training for potential innovators and innovation suggestion technical support including limited test conduct, instrumentation, or test materials.

FY 2021 Plans:

Identify and deliver innovative processes, services, and capabilities across all facets of DISA's operating model. Accelerate the transition of emerging technology through collaboration, outreach, and cooperative research and development agreements

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T62 / *DoD Information Network (DODIN) Systems Engineering and Support*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
(CRADA's) among agency, mission, and industry partners. Work with mission partners to discover, test, and deploy appropriate technological solutions/processes, including efforts in development, security and operations (DevSecOps), Next-Generation Endpoint, Machine Learning/Artificial Intelligence (AI), Assured Identity, Universal Transport, Internet Browser Isolation, Blockchain, Commercial Solutions for Classified (CSfC) , SIPR/NIPR Single Device and Multiple Access Reduced Sign-on. Further Operationalize DISAruptive enhancements, continue training support curriculum, and enhance R&D support to innovative ideas received through the DISAruptive portal.			
FY 2022 Plans: Work with mission partners to discover, test, and deploy appropriate technology solutions/processes, including efforts in Multi-Class Mobile endpoint, End-User Devices, Assured Identity, Machine Learning/Artificial Intelligence (AI), Cyber Defense, Cloud Computing, and Process Automation. Perform discovery, research, development and experimentation of emerging and commercial technologies to fill capability shortfalls and technology gaps across the Future Years Defense Program (FYDP). Collaborate and influence commercial leaders in innovative technology and practices in an effort to guide the Department towards the 21st century warfighting Domain. Pursue leading innovative solutions from industry, academia, and the Federal sector, and engage industry partners for commercial best practices. Conduct technical system engineering reviews and oversight of DISA and DoD enterprise products and services. Further Operationalize DISAruptive enhancements, continue training support curriculum, and enhance R&D support to innovative ideas received through the DISAruptive portal.			
FY 2021 to FY 2022 Increase/Decrease Statement: The decrease of -$2.259 from FY 2021 to FY 2022 is due to a reduction in technology research partnerships with Universities, and University affiliations, in order to develop deeper expertise in fewer core technology areas (-$0.124) and a realignment of -$2.135 to a establish the ISO ST-0100 project that will be moving to Operation & Maintenance in FY 2022.			
Accomplishments/Planned Programs Subtotals	8.689	12.256	9.997

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• O&M, DW/PE 0302019K: *Operation & Maintenance, Defense-Wide*	2.899	2.962	3.035	-	3.035	-	-	-	-	Continuing	Continuing

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T62 / *DoD Information Network (DODIN) Systems Engineering and Support*

D. Acquisition Strategy

Market research during the acquisition process includes a review of DISA contracts, other DoD contract vehicles, and other Federal Government agency contracts which are advertised for Government-wide usage. This market research also includes consideration of small businesses including minority/women owned (8A) businesses, Historically Black Colleges and Universities, mentor/protégé and other specialized contract vehicles and processes. Market research evaluates all contractors available from DISA sources for their ability to deliver the products specifically required for the unique program efforts. The program works collaboratively with vendors to obtain generic cost data for planning and analysis purposes. Past and current contract prices for similar work and other government-wide agency contracts provide additional sources of information. Quotes from multiple sources help provide averages for more realistic cost estimates. DISA makes a concerted effort to award many of its contracts to small businesses. Additionally, many of the DISA contracts are awarded with multiple option periods. These have the benefit of fixing labor costs over an extended period and minimizing the administrative costs associated with re-issuing short-term contracts.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T62 / *DoD Information Network (DODIN) Systems Engineering and Support*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering and Technical Services	FFRDC	MITRE : McLean, VA	14.233	0.505	Oct 2019	0.505	Oct 2020	0.671	Nov 2021	-		0.671	Continuing	Continuing	Continuing
Industry Tech Res	C/FFP	Gartner : Various	0.249	-		-		-		-		-	0.000	0.249	-
GIG Technical Insertion Engineering	C/FFP	SRA, Inc. : Fairfax, VA	1.211	-		-		-		-		-	0.000	1.211	-
Product Development	C/Various	Raytheon : Various	1.601	-		-		-		-		-	0.000	1.601	-
DAMA-C	MIPR	Defense Micro-electronics Activity : Various	11.794	-		-		-		-		-	0.000	11.794	-
Thin Engineering Support	MIPR	MIT Lincoln Labs : Lexington, MA	4.260	-		-		-		-		-	0.000	4.260	-
Engineering and Technical Support	C/FFP	Moya Technologies, Inc. : Various	1.212	-		-		-		-		-	0.000	1.212	-
Engineering Technical Services	MIPR	Various : Chambersburg, PA	4.399	1.000	Jan 2020	1.967	Jan 2021	-		-		-	Continuing	Continuing	Continuing
Product Development	C/FFP	Science and Technology Associates, Inc : Arlington, VA	2.091	-		-		-		-		-	0.000	2.091	-
Product Development	MIPR	SPAWAR : Charleston, SC	0.376	-		-		1.300	Mar 2022	-		1.300	Continuing	Continuing	Continuing
Product Development	MIPR	NSA : Ft. Meade, MD	0.691	-		-		-		-		-	0.000	0.691	-
Engineering Technical Services	C/FFP	TWM : Falls Church, VA	0.202	-		-		-		-		-	0.000	0.202	-
Product Development	C/FFP	SOLERS : Arlington, VA	3.023	-		-		-		-		-	0.000	3.023	-
Product Development	C/FFP	Booz Allen Hamilton : McLean, VA	1.062	-		-		-		-		-	0.000	1.062	-
Product Development	MIPR	JITC : Ft. Meade, MD	0.351	-		-		-		-		-	0.000	0.351	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T62 / *DoD Information Network (DODIN) Systems Engineering and Support*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering Technical Services	MIPR	Various : Ft. Meade, MD	4.481	-		-		-		-		-	0.000	4.481	-
Engineering Technical Services	C/Various	IV2: IT Consulting Services, LLC : Jackson, WY	1.674	-		-		-		-		-	0.000	1.674	-
Engineering Technical Services	C/FFP	Information Assurance TWM Follow On : Various	0.741	-		-		-		-		-	0.000	0.741	-
Engineering Technical Services	C/CPFF	TIE NEMS: B&D Consulting : Various	0.564	-		-		-		-		-	0.000	0.564	-
Engineering Technical Services	C/Various	Tapestry Technologies, INC : Various	3.173	-		-		-		-		-	0.000	3.173	-
Management Services - Civilian Pay	Various	Various : Ft. Meade, MD	6.428	-		-		-		-		-	0.000	6.428	-
Engineering Technical Services	C/FFP	PMPC-Itility LLC : Ft. Meade, MD	0.807	-		-		-		-		-	Continuing	Continuing	Continuing
Information Assurance	C/CPFF	Tapestry Tech : Chambersburg, PA	0.583	0.600	Jan 2020	0.600	Jan 2021	1.061	Dec 2021	-		1.061	Continuing	Continuing	Continuing
Sys Engineering	C/CPFF	Various : Ft. Meade, MD	4.911	4.897	Mar 2020	5.114	Dec 2020	1.057	Mar 2022	-		1.057	Continuing	Continuing	Continuing
Management Services - Civilian Pay	C/CPFF	Various : Ft. Meade	1.989	1.417	Oct 2019	3.570	Mar 2021	3.955	Nov 2021	-		3.955	Continuing	Continuing	Continuing
Program Management and Knowledge Management	C/FFP	TBD : TBD	-	-		-		1.453	Mar 2022	-		1.453	Continuing	Continuing	Continuing
(DODIN) Systems Engineering and Support	C/FFP	TBD : TBD	-	0.270	Mar 2020	0.500	Mar 2021	0.500	Mar 2022	-		0.500	Continuing	Continuing	Continuing
		Subtotal	72.106	8.689		12.256		9.997		-		9.997	Continuing	Continuing	N/A

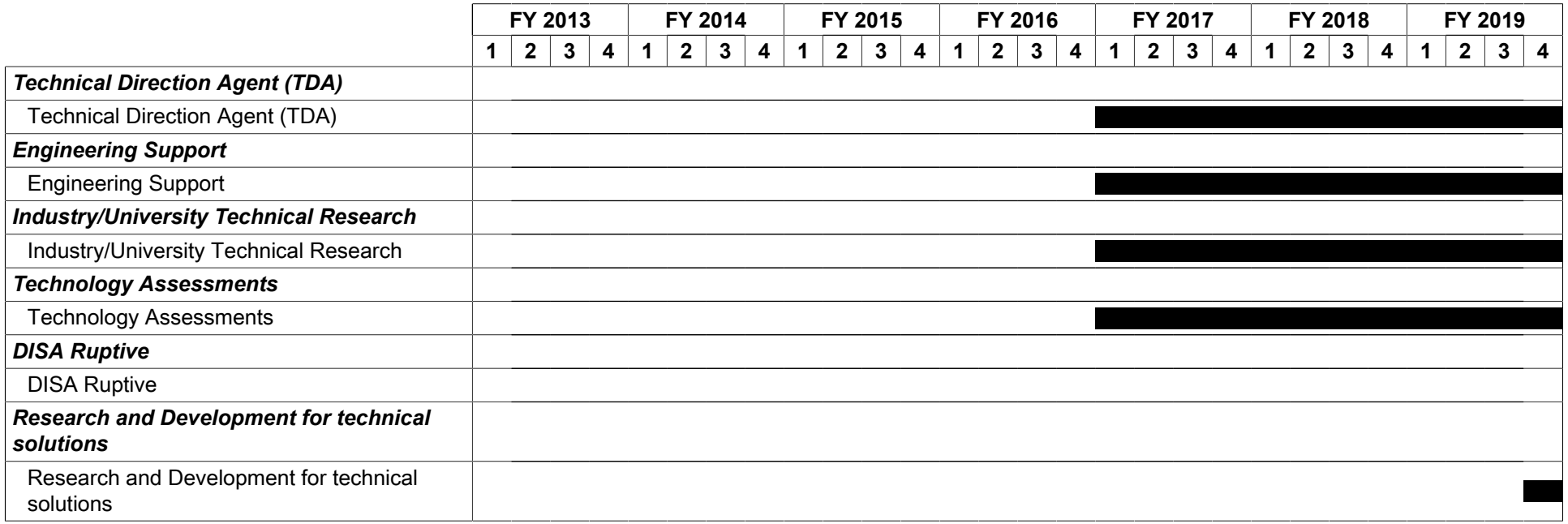
	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	72.106	8.689		12.256		9.997		-		9.997	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	Project (Number/Name) T62 / *DoD Information Network (DODIN) Systems Engineering and Support*	

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T62 / *DoD Information Network (DODIN) Systems Engineering and Support*



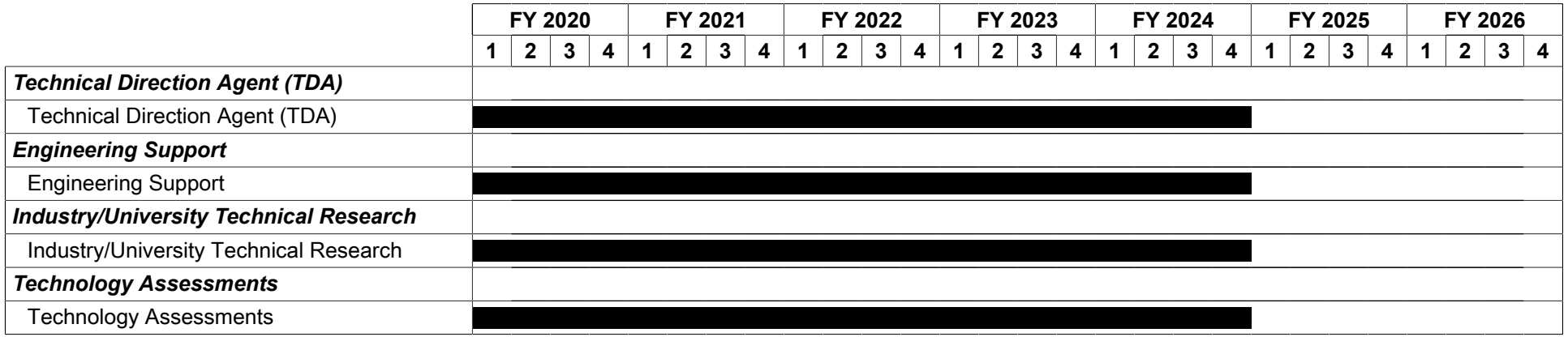


Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T62 / *DoD Information Network (DODIN) Systems Engineering and Support*

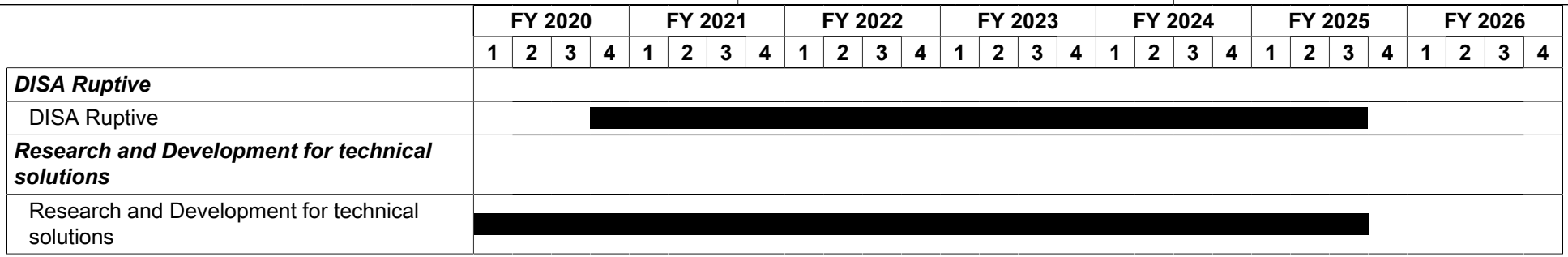


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T62 / *DoD Information Network (DODIN) Systems Engineering and Support*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Technical Direction Agent (TDA)				
Technical Direction Agent (TDA)	1	2017	4	2024
Engineering Support				
Engineering Support	1	2017	4	2024
Industry/University Technical Research				
Industry/University Technical Research	1	2017	4	2024
Technology Assessments				
Technology Assessments	1	2017	4	2024
DISA Ruptive				
DISA Ruptive	4	2020	3	2025
Research and Development for technical solutions				
Research and Development for technical solutions	4	2019	3	2025

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	Project (Number/Name) T-0010 / *Enterprise Messaging*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
T-0010: *Enterprise Messaging*	0.000	0.000	0.000	2.135	-	2.135	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Enterprise Messaging (EM) is an infrastructure service providing standardized mechanisms to exchange critical and globally visible data between applications/machines and provides the infrastructure for joint information sharing across the entire DoD. DISA Tasking Order (DTO) 15-544: Cybersecurity Risk Management Data Sharing mandates use of EM for messaging-to-messaging (M2M) data exchanges.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Enterprise Messaging (EM)	0.000	-	2.135
Description: Define and deploy a distributed EM capability that is highly available, secure, and scalable with redundancy, built-in self-recovery, and zero downtime for updates for the next major version of the EM capability. ***FY 2022 Plans:*** Build the test environments on Secure Internet Protocol Router/Non-Secure Internet Protocol Router (SIPR/NIPR) and developing new Enterprise Messaging technology to replace the current deployed systems. These systems will run in parallel until fully operational capability (FOC) is achieved. To achieve FOC an operational assessment of the new infrastructure, software, security requirements, and user functional testing will be completed. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The increase of +$2.135 from FY 2021 to FY 2022 will be used for support, new infrastructure, software, testing, and to establish a robust risk management process that meets federal agency information security standards and achieve Full Operational Capability (FOC) of Enterprise Messaging (EM) Version 5.0 (EM V5.0) for JEON ST-0010. EM is an automated machine to machine messaging system which automatically communicates DoD system status and other operational information across DoD networks. Data is used to evaluate the readiness and capability of U.S. armed forces to carry out assigned and potential tasks. This JEON project will be moving to Operation & Maintenance in FY 2022.			
Accomplishments/Planned Programs Subtotals	0.000	-	2.135

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T-0010 / *Enterprise Messaging*

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T-0010 / *Enterprise Messaging*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering Technical Services	C/FFP	TBD : TBD	-	-		-		2.135	Jul 2022	-		2.135	Continuing	Continuing	-
		Subtotal	-	-		-		2.135		-		2.135	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		0.000		2.135		-		2.135	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T-0010 / *Enterprise Messaging*

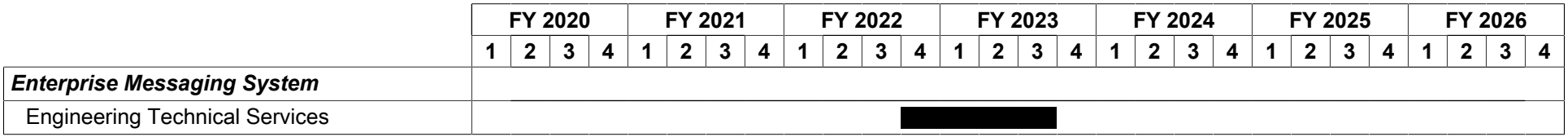


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0302019K / *Defense Info. Infrastructure Engineering and Integration*	**Project (Number/Name)** T-0010 / *Enterprise Messaging*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Enterprise Messaging System				
Engineering Technical Services	4	2022	3	2023

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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303126K / *Long-Haul Communications - DCS*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	201.292	11.749	11.884	10.275	-	10.275	-	-	-	-	Continuing	Continuing
T82: *DISN Systems Engineering Support*	201.292	11.166	11.884	10.275	-	10.275	-	-	-	-	Continuing	Continuing
COVID: *COVID*	-	0.583	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Information Systems Network (DISN) is the Department of Defenses (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.

PNVC: The PVNC provides selected system engineering for continued development and testing of the PNVC equipment for senior leaders. The PNVC system provides a military, satellite-based, survivable, secure, and near toll-quality voice conferencing capability for the President, Secretary of Defense, Chairman, Joint Chiefs of Staff, and other senior national/military leaders anywhere in the world as needed. Funding supports the acquisition activities for the PNVC baseband equipment, including critical and essential engineering required to develop new vocoder and cryptographic and audio-summing equipment.

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.

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303126K *I Long-Haul Communications - DCS*

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	11.749	11.884	11.674	-	11.674
Current President's Budget	11.749	11.884	10.275	-	10.275
Total Adjustments	0.000	0.000	-1.399	-	-1.399
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustmenet	-	-	-1.399	-	-1.399

Change Summary Explanation

Decrease of -$1.399 in FY 2022 is due to reduction in technical contract support.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
T82: *DISN Systems Engineering Support*	201.292	11.166	11.884	10.275	-	10.275	-	-	-	-	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: 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.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Next Generation Networking Technologies (formally known as Internet Protocol (IP) and Optical Transport Technology Refresh)	5.061	5.318	4.583
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 2021 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
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*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
The DISN will continue to perform Research, Test and Evaluation activities in Software Environment, Next Generational Networking to include Gray networks and all associated encryption technologies. ***FY 2022 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. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The decrease of -$0.735 from FY 2021 to FY 2022 is due to reduction in DISA Network Architecture requirements.			
Title: Peripheral and Component Design ***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. ***FY 2021 Plans:*** Support replacement of obsolete equipment as it relates to Secure Voice Switches. ***FY 2022 Plans:*** Continue to support replacement of obsolete equipment as it relates to Secure Voice Switches. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The decrease of -$0.270 from FY 2021 to FY 2022 is due to reduction in technical contract support.	1.627	1.817	1.547
Title: Mobility ***Description:*** 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 Combatant Commands (COCOMs). ***FY 2021 Plans:*** 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 applications. Production testing of the applications development framework and integration testing for infrastructure components, including additional gateway instances supporting secret and top secret domains as well as any COTS component technology refresh requirements against the end-to-end architecture. In addition, Outside Continental United States (OCONUS) development of the	4.478	4.749	4.145

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
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*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Commercial Solutions for Classified (CSfC) converged gateway (C2G) merging of current DoD Enterprise Classified Travel Kit (DEC-TK) gateway and Defense Mobility Classified Capability - Secret (DMCC-S) gateway. ***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 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.). ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The decrease of -$0.604 from FY 2021 to FY 2022 is due to contract efficiencies achieved through reduced system engineering costs for unified wireless capabilities.			
Accomplishments/Planned Programs Subtotals	11.166	11.884	10.275

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• O&M/PE0303126K: *Operation & Maintenance, Defense-Wide*	123.058	127.029	128.714	-	128.714	-	-	-	-	Continuing	Continuing
• Procurement/PE0303126K: *Procurement, Defense-Wide*	17.574	28.141	26.982	-	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.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
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*

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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
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*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering for DSRN Components & Peripherals	Various	Raytheon : Florida	15.525	1.627	Mar 2020	1.462	Mar 2021	1.462	Mar 2022	-		1.462	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	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
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*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
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	-		0.355	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	3.191	1.339	Feb 2020	1.449	Feb 2021	1.449	Feb 2022	-		1.449	Continuing	Continuing	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
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*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
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	Oct 2019	1.300	Oct 2020	0.736	Oct 2021	-		0.736	Continuing	Continuing	-
		Subtotal	151.600	4.105		4.566		4.002		-		4.002	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
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	3.000	1.050	Oct 2019	1.050	Oct 2020	1.050	Oct 2021	-		1.050	Continuing	Continuing	-
PNVC Software enhancements	C/CPFF	General Dynamics : NSA	5.900	-		-		-		-		-	0.000	5.900	-
		Subtotal	11.511	1.050		1.050		1.050		-		1.050	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

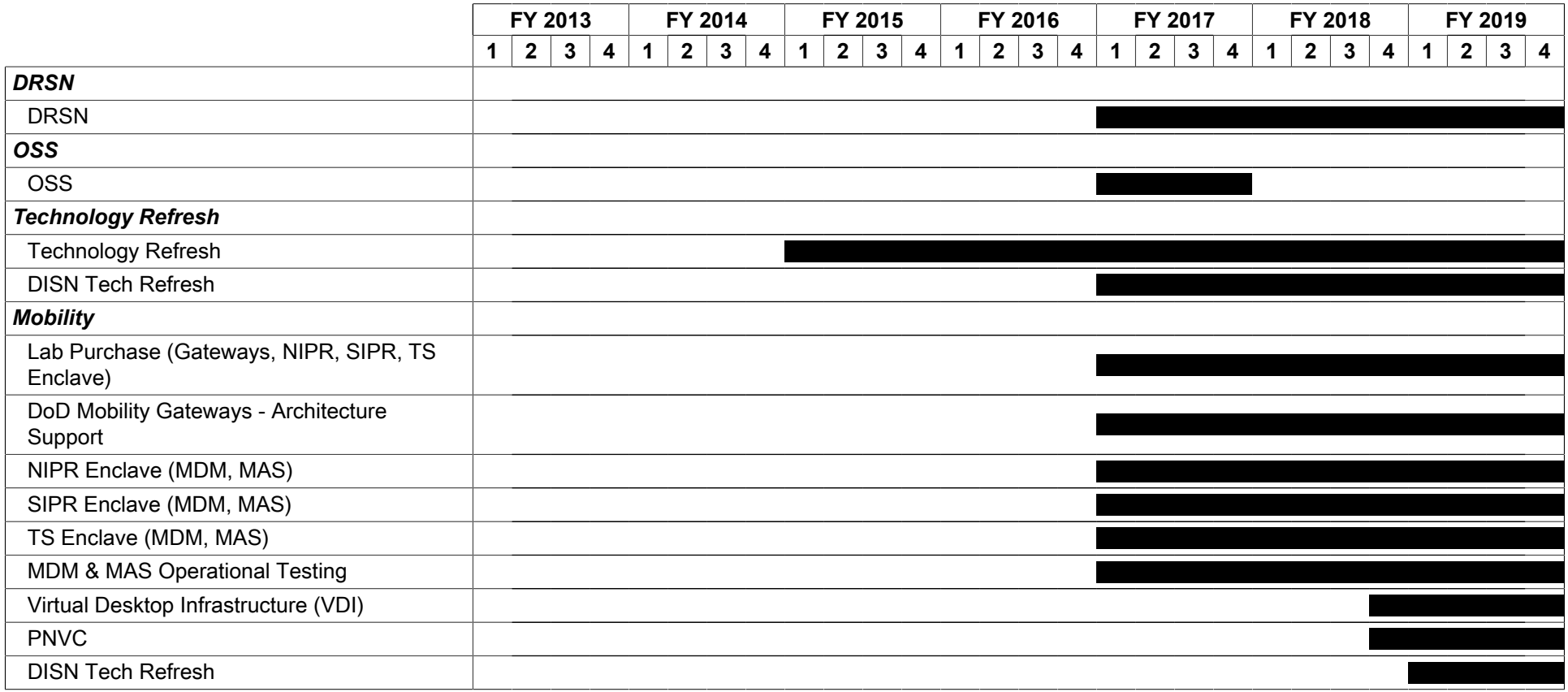
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Certification Testing	Various	JITC : Various	8.242	-		-		-		-		-	0.000	8.242	-
Test & Evaluation Support - Mobility	Various	JITC : Ft. Meade	6.193	0.950	Oct 2019	0.950	Oct 2020	0.950	Oct 2021	-		0.950	Continuing	Continuing	-
Integration, Test ann Modification - Mobility	Various	Various : Various	7.158	-		-		-		-		-	0.000	7.158	-
DISN Tech Refresh	Various	Various : Various	14.283	5.061	Dec 2019	5.318	Dec 2020	4.273	Dec 2021	-		4.273	Continuing	Continuing	-
Various	Various	Various : Various	2.305	-		-		-		-		-	0.000	2.305	-
		Subtotal	38.181	6.011		6.268		5.223		-		5.223	Continuing	Continuing	N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
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*	

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	201.292	11.166		11.884		10.275		-		10.275	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
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*



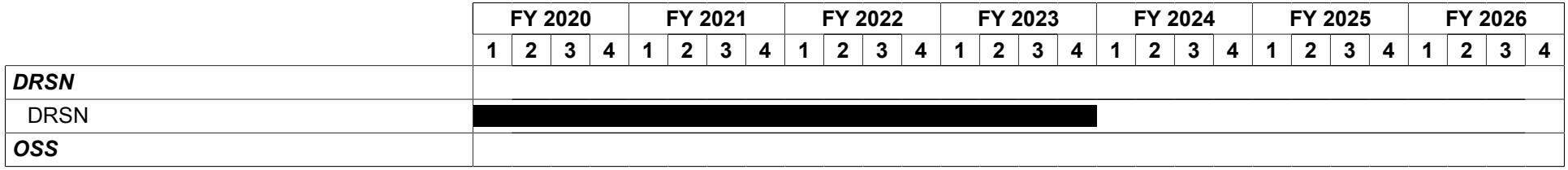


Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303126K / *Long-Haul Communications - DCS*	**Project (Number/Name)** T82 / *DISN Systems Engineering Support*

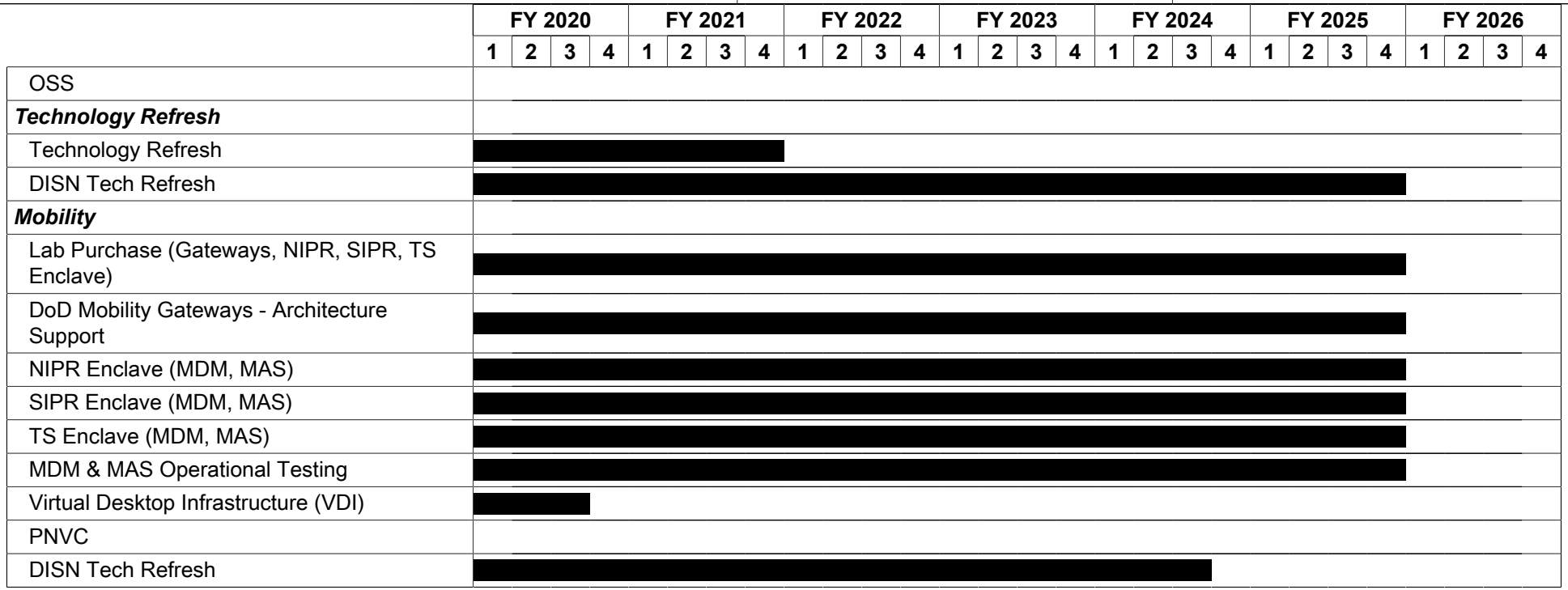


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303126K / *Long-Haul Communications - DCS*	**Project (Number/Name)** T82 / *DISN Systems Engineering Support*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
DRSN				
DRSN	1	2017	4	2023
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	2025
DoD Mobility Gateways - Architecture Support	1	2017	4	2025
NIPR Enclave (MDM, MAS)	1	2017	4	2025
SIPR Enclave (MDM, MAS)	1	2017	4	2025
TS Enclave (MDM, MAS)	1	2017	4	2025
MDM & MAS Operational Testing	1	2017	4	2025
Virtual Desktop Infrastructure (VDI)	4	2018	3	2020
PNVC	4	2018	4	2019
DISN Tech Refresh	1	2019	3	2024

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303126K / *Long-Haul Communications - DCS*	Project (Number/Name) COVID / *COVID*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
COVID: *COVID*	-	0.583	0.000	0.000	-	0.000	-	-	-	-	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: 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.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Win10 TOG Support ***Description:*** Provide classified mobile solutions for senior leaders throughout DoD. The Win10 project will provide DoD-wide seniors with a classified tablet that will enable secure remote collaboration. If the additional funding is not provided, the Win10 project will not be able to support or provide tier 1 service desk support for DoD-wide senior leaders who have been issued a Win10 Tablets.	0.583	-	-
Accomplishments/Planned Programs Subtotals	0.583	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303126K / *Long-Haul Communications - DCS*	**Project (Number/Name)** COVID / *COVID*

C. Other Program Funding Summary ($ in Millions)

Remarks

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303126K / *Long-Haul Communications - DCS*	**Project (Number/Name)** COVID / *COVID*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Win10 TOG Support	Option/ FFP	TBD : TBD	-	0.583	Dec 2020	-		-		-		-	Continuing	Continuing	-
		Subtotal	-	0.583		-		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	0.583		0.000		-		-		-	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303126K / *Long-Haul Communications - DCS*	**Project (Number/Name)** COVID / *COVID*

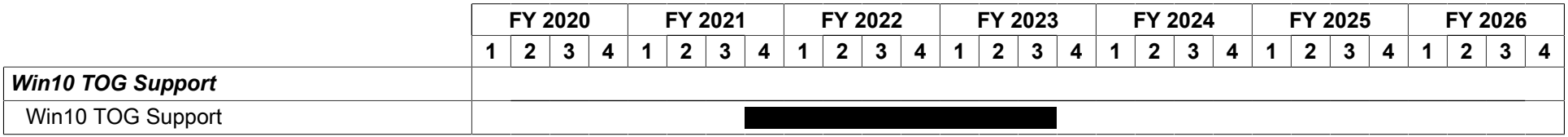


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303126K / *Long-Haul Communications - DCS*	**Project (Number/Name)** COVID / *COVID*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Win10 TOG Support				
Win10 TOG Support	4	2021	3	2023

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303131K *I Minimum Essential Emergency Communications Network (MEECN)*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	199.615	17.699	5.560	4.892	-	4.892	-	-	-	-	Continuing	Continuing
T64: *Special Projects*	76.466	5.874	5.560	4.892	-	4.892	-	-	-	-	Continuing	Continuing
T70: *Strategic C3 Support*	123.149	11.825	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

Minimum Essential Emergency Communications Network (MEECN) provides the Nuclear Command, Control, and Communications (NC3) Engineer with plans and procedures, systems analysis, operational assessments, systems engineering, and development of concepts of operation and architectures. The NC3 System provides connectivity from the President and the Secretary of Defense through the National Military Command System to nuclear execution forces integral to fighting a “homeland-to-homeland,” as well as theater nuclear war. MEECN includes the Emergency Action Message dissemination systems and those systems used for integrated Tactical Warning/Attack Assessment, presidential decision-making conferencing, force report back, re-targeting, force management, and requests for permission to use nuclear weapons. Efforts assure positive control of nuclear forces and connectivity between the Secretary of Defense, military forces, and an informed decision-making linkage between the President, the Secretary of Defense, and the Combatant Commands. MEECN ensures our national leadership has proper command and control of our forces during times of national emergency, up to and including nuclear war.

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	17.699	5.560	5.558	-	5.558
Current President's Budget	17.699	5.560	4.892	-	4.892
Total Adjustments	0.000	0.000	-0.666	-	-0.666
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	-0.666	-	-0.666

Change Summary Explanation

The decrease of -$0.666 in FY 2022 is due to reduction in technical contract support.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303131K / *Minimum Essential Emergency Communications Network (MEECN)*	Project (Number/Name) T64 / *Special Projects*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
T64: *Special Projects*	76.466	5.874	5.560	4.892	-	4.892	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The mission is performing classified work. All aspects of this project are classified and require special access. Detailed information on this project is not contained in this document.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Special Projects	5.874	5.560	4.892
Description: Program is classified and exhibit will be provided under a separate cover. ***FY 2021 Plans:*** Program is classified and exhibit will be provided under a separate cover. ***FY 2022 Plans:*** Program is classified and exhibit will be provided under a separate cover. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** Program is classified and exhibit will be provided under a separate cover.			
Accomplishments/Planned Programs Subtotals	5.874	5.560	4.892

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Program is classified and exhibit will be provided under a separate cover.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303131K / *Minimum Essential Emergency Communications Network (MEECN)*	Project (Number/Name) T64 / *Special Projects*	

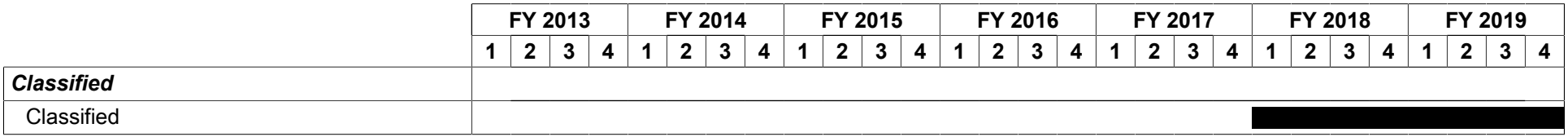
Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Classified	Various	Classified : Classified	76.466	5.874	Oct 2019	5.560	Oct 2020	4.892	Oct 2021	-		4.892	Continuing	Continuing	-
		Subtotal	76.466	5.874		5.560		4.892		-		4.892	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	76.466	5.874		5.560		4.892		-		4.892	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303131K / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** T64 / *Special Projects*



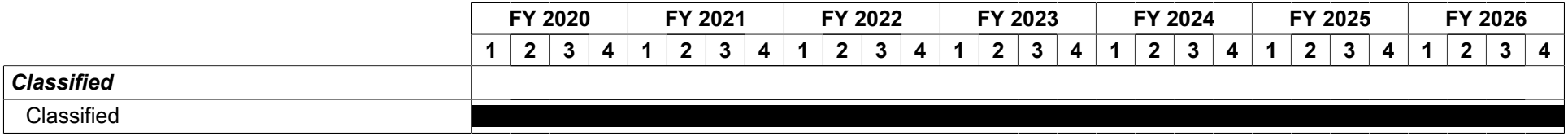


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303131K / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** T64 / *Special Projects*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Classified				
Classified	1	2018	4	2026

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303131K / *Minimum Essential Emergency Communications Network (MEECN)*	Project (Number/Name) T70 / *Strategic C3 Support*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
T70: *Strategic C3 Support*	123.149	11.825	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project supports the mission of the Nuclear Command, Control, and Communications (NC3) Systems Engineer to the Joint Staff and Executive Leadership. It also provides NC3 expertise to the Department of Defense (DoD) Chief Information Officer (CIO) National Leadership Command Capability (NLCC) Management Office. Systems Analysis supports long range planning and vulnerability assessments to ensure the NC3 System is adequate under all conditions of stress or war and recommends investment strategies to evolve the Nuclear Command and Control System to achieve desired capabilities. Operational Assessments of fielded systems and weapon platforms provide the sole means for verification of NC3 systems' performance in support of plans and procedures, operation orders, training, equipment, and end-to-end system configuration. Assessments provide strategic and theater level C3 interfaces into the NC3 System. Supporting efforts assure positive control of nuclear forces and connectivity between the Secretary of Defense and strategic and theater forces. Systems Engineering provides the Senior Leadership C3 System with technical and management advice, planning and engineering support, and Test & Evaluation. Leading Edge Command, Control, Communications, Computers, and Intelligence technology is assessed for all communication platforms supporting executive travelers and senior leaders to include the interoperability of hardware and operational procedures. These technology elements support the President's and other DoD command centers and aircraft (e.g., Air Force One and the National Airborne Operations Center).

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Systems Engineering, Analysis and Architecture	11.825	-	-
Description: Engineering, development, testing and systems analysis to support NLCC capabilities.			
Accomplishments/Planned Programs Subtotals	11.825	-	-

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• O&M, PE 0303131K: *O&M*	19.331	19.989	20.246	-	20.246	-	-	-	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

Full and open competition resulted in contract vehicles with Raytheon, Arlington, VA; Science Applications Int'l Corporation (SAIC), McLean, VA; and Pragmatics, Mclean, VA.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303131K / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** T70 / *Strategic C3 Support*	

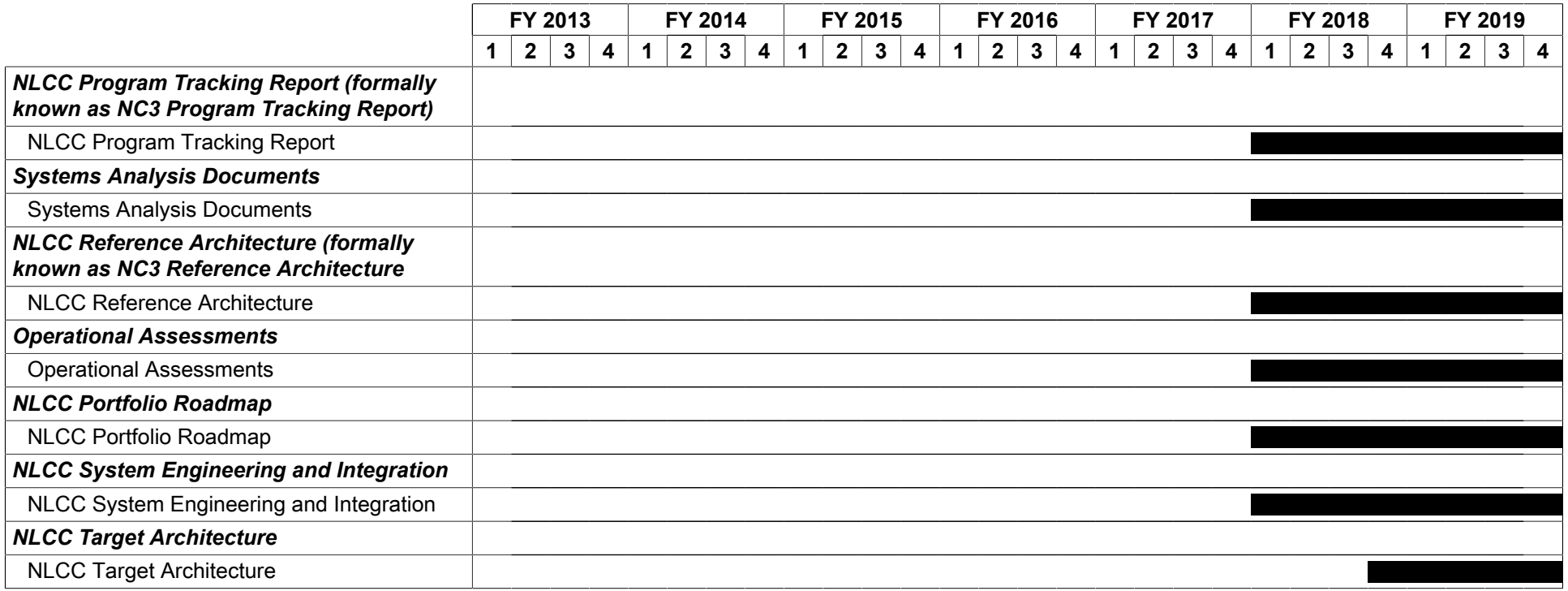
Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering 1	C/CPAF	SAIC : McLean, VA	21.699	-		-		-		-		-	0.000	21.699	-
Systems Engineering 2	C/CPAF	Raytheon Company : Arlington, VA	35.600	-		-		-		-		-	0.000	35.600	-
Systems Engineering 3	C/CPFF	Pragmatics : McLean, VA	10.080	-		-		-		-		-	0.000	10.080	-
Systems Engineering 4	C/FP	Raytheon Company : Arlington, VA	30.297	6.050	Feb 2020	-		-		-		-	Continuing	Continuing	Continuing
Systems Engineering 5	C/CPFF	BAH : Falls Church, VA	4.273	-		-		-		-		-	0.000	4.273	-
Systems Engineering 6	C/CPFF	Harris Corporation : Melbourne, FL	2.500	-		-		-		-		-	0.000	2.500	-
Systems Engineering 7	C/CPAF	Carson Engineering : Bethesda, MD	1.056	-		-		-		-		-	0.000	1.056	-
System Engineering 8	C/FFP	MITRE Corp : McLean, VA	3.273	1.000	Oct 2019	-		-		-		-	Continuing	Continuing	Continuing
System Engineering 9	C/FFP	JHU APL : Laurel, MD	3.500	0.551	Apr 2020	-		-		-		-	Continuing	Continuing	Continuing
System Engineering 10	C/FFP	Various : Various	1.342	-		-		-		-		-	0.000	1.342	-
System Engineering	C/CPFF	Jacob FNS : Arlington, Va	4.048	4.224	Dec 2019	-		-		-		-	Continuing	Continuing	Continuing
Systems Engineering & Integration	C/CPFF	Verizon : Arlington, VA	5.481	-		-		-		-		-	0.000	5.481	-
		Subtotal	123.149	11.825		-		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	123.149	11.825		0.000		-		-		-	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303131K / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** T70 / *Strategic C3 Support*



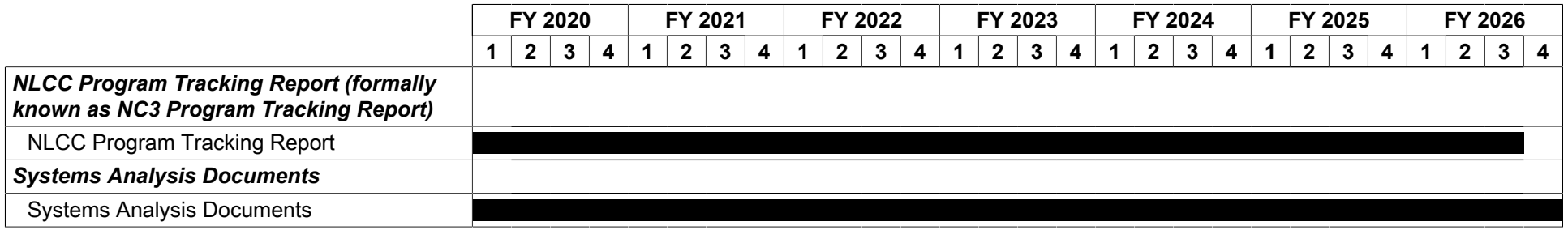


Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303131K / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** T70 / *Strategic C3 Support*

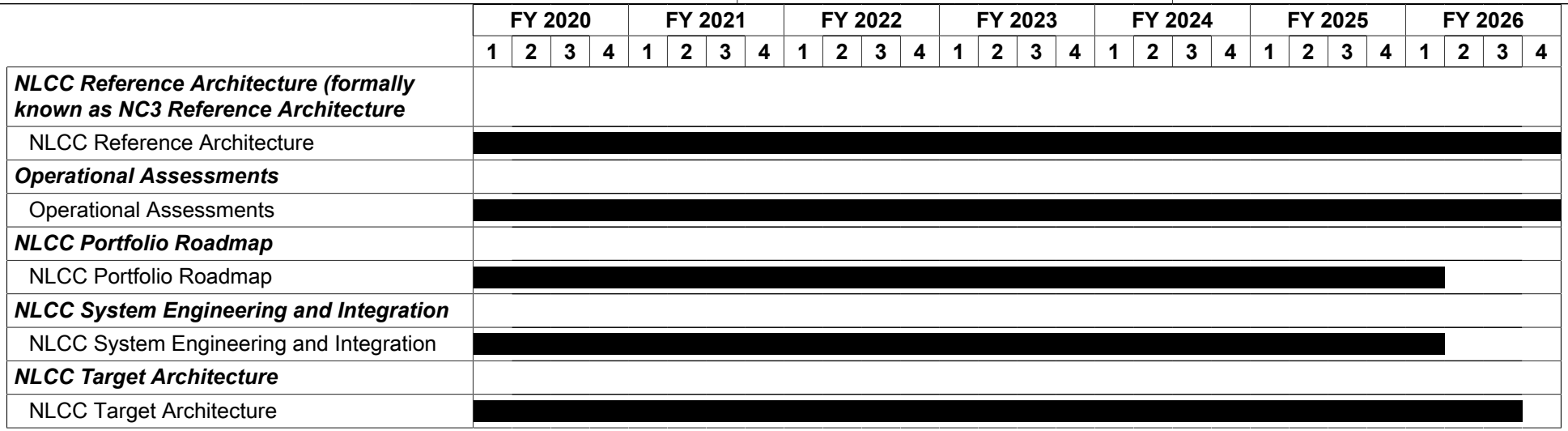


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303131K / *Minimum Essential Emergency Communications Network (MEECN)*	**Project (Number/Name)** T70 / *Strategic C3 Support*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
NLCC Program Tracking Report (formally known as NC3 Program Tracking Report)				
NLCC Program Tracking Report	1	2018	3	2026
Systems Analysis Documents				
Systems Analysis Documents	1	2018	4	2026
NLCC Reference Architecture (formally known as NC3 Reference Architecture				
NLCC Reference Architecture	1	2018	4	2026
Operational Assessments				
Operational Assessments	1	2018	4	2026
NLCC Portfolio Roadmap				
NLCC Portfolio Roadmap	1	2018	1	2026
NLCC System Engineering and Integration				
NLCC System Engineering and Integration	1	2018	1	2026
NLCC Target Architecture				
NLCC Target Architecture	4	2018	3	2026

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303140K / *Information Systems Security Program*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	42.262	39.798	8.922	5.707	-	5.707	-	-	-	-	Continuing	Continuing
IA3: *Information Systems Security Program*	42.262	39.798	8.922	5.707	-	5.707	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Information Systems Security Program (ISSP) mission focuses on developing Department of Defense (DoD) enterprise solutions to Combatant Commands, Services, and Defense-wide agencies to ensure critical mission execution in the face of cyber attacks. The ISSP ensures that, the network, the computing centers, and core enterprise services will evolve to better support a joint cybersecurity/information assurance model that has common enterprise-scale perimeter defenses and will support a broad range of sharing policies from completely unclassified to tightly-held within a classified community. The ISSP will test and develop active-active defensive capabilities; test and integrate software defined networking and orchestration closed-loop security; perform research, development and engineering of emerging cyber situational awareness technologies; harden the network by providing architecture support, systems engineering and analytical functions for Endpoint and Perimeter defense capabilities; cyber IT infrastructure and automation support to deploy enterprise-wide next generation identity technologies; and develop and evolve an integrated cyber domain security workforce to be on the leading edge of defensive capabilities.

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	39.798	8.922	6.485	-	6.485
Current President's Budget	39.798	8.922	5.707	-	5.707
Total Adjustments	0.000	0.000	-0.778	-	-0.778
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	-0.778	-	-0.778

Change Summary Explanation

The decrease of -$-0.778 in FY 2022 is reduction in contract support.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303140K / *Information Systems Security Program*	Project (Number/Name) IA3 / *Information Systems Security Program*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
IA3: *Information Systems Security Program*	42.262	39.798	8.922	5.707	-	5.707	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Information Systems Security Program (ISSP) mission focuses on developing Department of Defense (DoD) enterprise solutions to Combatant Commands, Services, and Defense-wide agencies to ensure critical mission execution in the face of cyber attacks. The ISSP ensures that, the network, the computing centers, and core enterprise services will evolve to better support a joint cybersecurity/information assurance model that has common enterprise-scale perimeter defenses and will support a broad range of sharing policies from completely unclassified to tightly-held within a classified community. The ISSP will test and develop active-active defensive capabilities; test and integrate software defined networking and orchestration closed-loop security; perform research, development and engineering of emerging cyber situational awareness technologies; harden the network by providing architecture support, systems engineering and analytical functions for Endpoint and Perimeter defense capabilities; cyber IT infrastructure and automation support to deploy enterprise-wide next generation identity technologies; and develop and evolve an integrated cyber domain security workforce to be on the leading edge of defensive capabilities.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: DoD Cyber Security Range (CSR) ***Description:*** The DoD Cyber Security Range (CSR) provides a multi-classification level, operationally realistic, DODIN representative, cyber security environment to sustain and enhance the professional development of the DoD cyber security workforce.	1.337	-	-
Title: Cyber Innovation and Technology ***Description:*** Provide research and development, conduct technology assessments, rapidly produce prototypes using commercial solutions, validate assumptions, and provide empirical data to drive real time enterprise solutions and decisions in assisting DoD requirement owners for enterprise fielding of innovative gap fillers to address cyber capabilities and militarization of commercial information assurance capabilities tactical edge. All project undertaken directly increase information sharing capabilities and assure C2 functionality against a common operating picture. The program will leverage its robust IT infrastructure to develop small prototypes to find cost saving initiatives across the DoD Information Network (DODIN) in an effort to provide the DoD with faster more reliable communications capabilities. These solutions will look to provide enhanced warfighting technology and research development programs improving the protection, survivability, mobility and combat effectiveness of the DoD. ***FY 2021 Plans:***	1.179	0.464	0.459

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303140K / *Information Systems Security Program*	**Project (Number/Name)** IA3 / *Information Systems Security Program*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Continued assessment, testing, prototype improvement and implementation of DoDCAR (DoD Cybersecurity Analysis and Review processes. This includes portfolio management against threat coverage and the execution of deeper analyses of advisory behaviors within DoD Networks. ***FY 2022 Plans:*** Continued assessment, testing, prototype improvement and implementation of DoDCAR (DoD Cybersecurity Analysis and Review processes. This includes portfolio management against threat coverage and the execution of deeper analyses of advisory behaviors within DoD Networks. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** No statement required.			
Title: Identity, Credential, and Access Management (ICAM) ***Description:*** Develop and deploy Identity, Credential, and Access Management (ICAM) efforts associated with automated account provisioning and auditability and federalized authentication services that support credentials for DoD and non-DoD personnel.	30.000	-	-
Title: Sharkseer ***Description:*** SHARKSEER is a critical component of the Cyber Kill Chain that uniquely enhances the defensive posture of the Department of Defense Information Network (DoDIN) by assisting us with mitigating unknown (zero-day) cyber threats in near-real time utilizing orchestration. SHARKSEERs primary mission is to detect and mitigate Zero-Days and Advanced Persistent Threats (APTs) at DoDIN IAPs. SHARKSEER also provides Malware Analytics, Deep Packet Analysis, Global Threat Intelligence, and Cyber Threat Indicator (CTI) sharing to Federal Agencies, Military Departments, and Services.	1.882	-	-
Title: Zero Trust Architecture (ZTA) ***Description:*** Will develop, test, and evaluate the technologies required for the implementation of ZTA. ***FY 2021 Plans:*** To develop, test, and evaluate technologies, identify critical applications on SIPR that are required to improve security, and analyze backbone design, gateway, and mobility infrastructure for necessary improvements. ***FY 2022 Plans:*** To develop, test, and evaluate technologies, identify critical applications on NIPR and begin SIPR development that are required to improve security, and analyze backbone design, gateway, and mobility infrastructure for necessary improvements. ***FY 2021 to FY 2022 Increase/Decrease Statement:***	-	2.462	2.053

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303140K / *Information Systems Security Program*	**Project (Number/Name)** IA3 / *Information Systems Security Program*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
The decrease of -$0.409 from FY 2021 to FY 2022 is due to the reduction of software license purchases.			
Title: Secure Application Development (DevSecOps) Program ***Description:*** Will provide an enterprise capability for an automated DevSecOps platform that programs can use to rapidly and automatically build, accredit, secure, test, deploy, monitor, and protect newly developed applications. ***FY 2021 Plans:*** Develops integrated tools and standards that enable users and partners to develop, deploy, and operate applications in a secure and flexible environment. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The decrease of -$5.996 from FY 2021 to FY 2022 is due to the DevSecOps program reaching a Continuous Compliance Monitoring (CCM) Minimal Viable Product (MVP) for the DoD cloud security and compliance across the DoD Enterprise.	5.400	5.996	-
Title: PKI/Software Defined Enterprise (SDE) ***Description:*** Identify, develop and enforce the adoption of software defined technologies to modernize service delivery and cyber operations. ***FY 2022 Plans:*** Develop and enforce the adoption of software defined technologies to modernize service delivery and cyber operations, to ensure the efforts conform to the DISA SDE strategy. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The increase of +$1.876 from FY 2021 to FY 2022 is due to engineering support increases.	0.000	-	1.876
Title: License and Support ***Description:*** ESS will perform proof of concept research for new endpoint security capabilities. ***FY 2022 Plans:*** Support licenses and engineering support of proof of concept capabilities for endpoint security. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The increase of +$1.319 from FY 2021 to FY 2022 is due to proof of concept research for Endpoint Security capabilities.	0.000	-	1.319
Accomplishments/Planned Programs Subtotals	39.798	8.922	5.707

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303140K / *Information Systems Security Program*	**Project (Number/Name)** IA3 / *Information Systems Security Program*	

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• O&M, DW: *PE 0303140K*	0.000	56.974	59.237	-	59.237	-	-	-	-	Continuing	Continuing
• Procurement, DW: *PE 0303140K*	0.000	4.160	2.214	-	2.214	-	-	-	-	Continuing	Continuing

Remarks

N/A

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303140K / *Information Systems Security Program*	Project (Number/Name) IA3 / *Information Systems Security Program*	

Support ($ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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
ZND Technology Assessment/Evaluation for email capability Tech Refresh	C/FFP	ASRC Federal : Beltsville, MD	16.705	-		-		-		-		-	0.000	16.705	-
DoD Cyber Security Range (CSR) Virtual Training Environment	C/FFP	ManTech : Fairfax, VA	2.198	-		-		-		-		-	0.000	2.198	-
DoD Cyber Security Range (CSR) Virtual Training Environment - Re-compete	C/FFP	ManTech : Fairfax, VA	0.476	1.207	Sep 2020	-		-		-		-	Continuing	Continuing	-
DoD Endpoint Security Solutions (ESS)	C/FFP	TBD : TBD	-	-		-		1.319	Jan 2022	-		1.319	Continuing	Continuing	-
Cyber HQs Support	C/FFP	Bylight : Fort Meade, MD	18.705	-		-		-		-		-	0.000	18.705	-
Joint Information Operations Range (JIOR) Connection	C/FFP	ManTech : Stafford, VA	0.130	0.130	Sep 2020	-		-		-		-	Continuing	Continuing	-
DISA EA Model Development for Cyber Security and Network Technical Domains, DODCAR Cyber Analysis Tool Development	C/FFP	Various : Various	4.048	0.459	Jan 2020	0.464	Jan 2021	0.459	Jan 2022	-		0.459	Continuing	Continuing	-
Deployment of Blockchain and Next Generation Identity	C/FFP	TBD : TBD	-	6.000	Jan 2020	1.494	Jan 2021	-		-		-	Continuing	Continuing	-
Cyber Innovation and Technology	C/FFP	TBD : TBD	-	5.000	Mar 2020	-		-		-		-	Continuing	Continuing	-
Identity, Credential, and Access Management (ICAM)	C/FFP	TBD : TBD	-	27.002	Mar 2020	-		-		-		-	Continuing	Continuing	-
Sharkseeker	C/FFP	TBD : TBD	-	-		4.500		1.876	Nov 2021	-		1.876	Continuing	Continuing	-
Zero Trust Architecture (ZTA)	C/FFP	TBD : TBD	-	-		2.464		2.053	Nov 2021	-		2.053	Continuing	Continuing	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303140K / *Information Systems Security Program*	**Project (Number/Name)** IA3 / *Information Systems Security Program*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	42.262	39.798		8.922		5.707		-		5.707	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	42.262	39.798		8.922		5.707		-		5.707	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303140K / *Information Systems Security Program*	**Project (Number/Name)** IA3 / *Information Systems Security Program*

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Secure Application Development (DevSecOps) Program																												
Secure Application Development (DevSecOps) Program																												
Innovation and Technology																												
Block Chain Cyber Innovation Technology Assessment																												
Next Gen Identity Tool Suite Cyber Innovation Technology Assessment																												
Zero Trust Architecture (ZTA)																												
Develop, test, and evaluate the technologies																												
Sharkseer																												
To develop Sharkseer 2.0																												
Endpoint License and Support																												
Develop, test, and evaluate the technologies																												
PKI/ Software Defined Enterprise																												
Identify, develop and enforce the adoption of software defined technologies																												

	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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
Secure Application Development (DevSecOps) Program																												
Secure Application Development (DevSecOps) Program																												
Innovation and Technology																												

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303140K / *Information Systems Security Program*	**Project (Number/Name)** IA3 / *Information Systems Security Program*

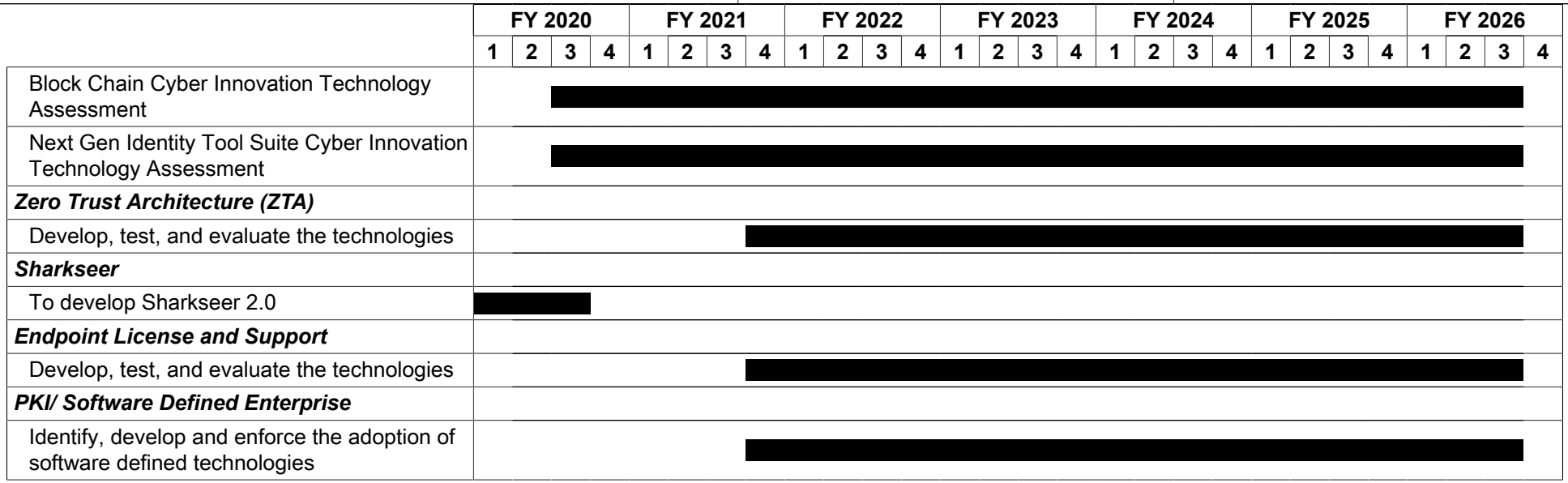


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303140K / *Information Systems Security Program*	**Project (Number/Name)** IA3 / *Information Systems Security Program*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Secure Application Development (DevSecOps) Program				
Secure Application Development (DevSecOps) Program	4	2020	4	2021
Innovation and Technology				
Block Chain Cyber Innovation Technology Assessment	3	2020	3	2026
Next Gen Identity Tool Suite Cyber Innovation Technology Assessment	3	2020	3	2026
Zero Trust Architecture (ZTA)				
Develop, test, and evaluate the technologies	4	2021	3	2026
Sharkseer				
To develop Sharkseer 2.0	4	2019	3	2020
Endpoint License and Support				
Develop, test, and evaluate the technologies	4	2021	3	2026
PKI/ Software Defined Enterprise				
Identify, develop and enforce the adoption of software defined technologies	4	2021	3	2026

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	617.629	14.534	3.695	4.150	-	4.150	-	-	-	-	Continuing	Continuing
CC01: *Global Command and Control System-Joint (GCCS-J)*	617.629	14.534	3.695	4.150	-	4.150	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

Global Command and Control System – Joint (GCCS-J) is DoD's Joint Command and Control (JC2) system of record and provides the foundation for migration of service-unique C2 systems into a Joint, interoperable environment. The Defense Information System Agency's (DISAs) portfolio includes funding to support GCCS-J, Joint Planning and Execution Services (JPES), and the development and sustainment of the JC2 Architecture. GCCS-J incorporates the core planning and assessment tools required by combatant commanders and their subordinate Joint Task Force Commanders while meeting the readiness support requirements of the Services. Adaptive Planning and Execution Joint Planning Services are being developed to modernize the adaptive planning functions in a net centric environment. DISA continues to provide support for the operational system to ensure continued access to information integration and decision-support capabilities that enable the exercise of authority and direction over assigned and attached forces, in a net-centric, collaborative information environment. Additionally, DISA provides critical C2 capabilities to the Commander-in-Chief, Secretary of Defense, National Military Command Center, Combatant Commands (COCOMs), Joint Force Commanders, and Service Component Commanders.
JPES is a set of JC2 Global Force Management capabilities that address components of the DOD's Adaptive Planning Roadmap (13 December 2005) and Adaptive Planning Roadmap II (5 March 2008). JPES produces enhancements to the Joint Operations Planning and Execution System (JOPES), Joint Capabilities Requirements Manager (JCRM), and newly developed Joint Collaboration Tool (JCT); focused adaptive planning capabilities; and provides a set of core infrastructure services necessary to provide the warfighter a fully interoperable environment where functionality can be easily added as mission needs dictate.
The JC2 Architecture is a foundational element of JC2 capabilities for the Department. The JC2 Architecture provides a set of net-centric tenets associated with data, functional service and the C2 infrastructure that describes architectural and operational concepts, technical constructs, and is a repository for valuable reference information relating to C2 standards and information security. Each year, the DISA architecture team produces a transitional architecture that documents the current state of C2 capabilities, anticipated changes/enhancements either in progress or planned by the JC2 community.

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System*

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	14.534	3.695	4.201	-	4.201
Current President's Budget	14.534	3.695	4.150	-	4.150
Total Adjustments	0.000	0.000	-0.051	-	-0.051
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	-0.051	-	-0.051

Change Summary Explanation

The decrease of -$0.051 in FY 2022 is due to a technical adjustment.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303150K / *Global Command and Control System*	Project (Number/Name) CC01 / *Global Command and Control System-Joint (GCCS-J)*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
CC01: *Global Command and Control System-Joint (GCCS-J)*	617.629	14.534	3.695	4.150	-	4.150	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Global Command and Control System – Joint (GCCS-J) is DoD's Joint Command and Control (JC2) system of record and provides the foundation for migration of service-unique C2 systems into a Joint, interoperable environment. The Defense Information System Agency's (DISAs) portfolio includes funding to support GCCS-J, Joint Planning and Execution Services (JPES), and the development and sustainment of the JC2 Architecture. GCCS-J incorporates the core planning and assessment tools required by combatant commanders and their subordinate Joint Task Force Commanders while meeting the readiness support requirements of the Services. Adaptive Planning and Execution Joint Planning Services are being developed to modernize the adaptive planning functions in a net centric environment. DISA continues to provide support for the operational system to ensure continued access to information integration and decision-support capabilities that enable the exercise of authority and direction over assigned and attached forces, in a net-centric, collaborative information environment. Additionally, DISA provides critical C2 capabilities to the Commander-in-Chief, Secretary of Defense, National Military Command Center, Combatant Commands (COCOMs), Joint Force Commanders, and Service Component Commanders.

JPES is a set of JC2 Global Force Management capabilities that address components of the DOD's Adaptive Planning Roadmap (13 December 2005) and Adaptive Planning Roadmap II (5 March 2008). JPES produces enhancements to the Joint Operations Planning and Execution System (JOPES), Joint Capabilities Requirements Manager (JCRM), and newly developed Joint Collaboration Tool (JCT); focused adaptive planning capabilities; and provides a set of core infrastructure services necessary to provide the warfighter a fully interoperable environment where functionality can be easily added as mission needs dictate.

The JC2 Architecture is a foundational element of JC2 capabilities for the Department. The JC2 Architecture provides a set of net-centric tenets associated with data, functional service and the C2 infrastructure that describes architectural and operational concepts, technical constructs, and is a repository for valuable reference information relating to C2 standards and information security. Each year, the DISA architecture team produces a transitional architecture that documents the current state of C2 capabilities, anticipated changes/enhancements either in progress or planned by the JC2 community.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Development and Strategic Planning	11.260	-	-
Description: Develop, publish, and execute a GCCS-J migration and modernization strategy that achieves the following GCCS-J Modernization objectives in accordance with Joint C2 Mission operational priorities and the DoD's JC2 Reference Architecture: • Continue to decompose applicable existing applications into services • Limit local deployment and move as much to the enterprise as possible • Continue to expose data and scale services to support an enterprise implementation			

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System*	**Project (Number/Name)** CC01 / *Global Command and Control System-Joint (GCCS-J)*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
• Continue to evolve more economical hardware and software architecture without impact to the operational user or Family of Systems (FoS)/interface partners • Reduce overall sustainment cost through use of more cost effective and appropriate Commercial-off-the-Shelf (COTS) and Hardware (HW) products • Evolve to use of agile development practices • Consolidation of clients and tools			
Title: Joint Planning and Execution Services (JPES) ***Description:*** JPES is a collection of capabilities supporting joint policies, processes, procedures, and reporting structures, that are supported by communications and information technology used by the Joint Planning and Execution Community (JPEC). JPEC uses these capabilities to monitor, plan, and execute: mobilization, deployment, employment, sustainment, redeployment, and demobilization activities associated with joint operations. ***FY 2021 Plans:*** Continue to modernize JPES by improving performance on the Framework, integrating with additional external partners, developing additional data services and enhancements to the user interface. ***FY 2022 Plans:*** JPES PMO will continue to meet the JS approved and prioritized functional requirements to support Global Force Management (GFM). We will continue JPES solution development to sunset legacy system; continue sustainment of legacy system including cybersecurity and Commercial Off the Shelf (COTS) end-of-life upgrades, continue sustainment of Joint Capabilities Requirements Manager (JCRM) including cybersecurity and COTS end-of-life upgrades, and continue integrating additional external partners requesting GFM data ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The increase of +$0.455 from FY 2021 to FY 2022 is the result of increased licensing costs, GCCS-J 4.3 middleware support, and development to address COTS end-of-life upgrades on legacy systems.	3.274	3.695	4.150
Accomplishments/Planned Programs Subtotals	14.534	3.695	4.150

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• PE 0303150K: *Operation & Maintenance, Defense-Wide*	107.667	44.507	45.269	-	45.269	-	-	-	-	Continuing	Continuing

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System*	**Project (Number/Name)** CC01 / *Global Command and Control System-Joint (GCCS-J)*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost

Remarks

D. Acquisition Strategy

Use of performance-based contract awards is maximized while use of Time and Material contracts is minimized to those providing programmatic support versus software development, integration, or testing. All development, integration, and migration efforts within the portfolio are primarily supported through Cost Reimbursable Task Orders issued under competitively awarded contracts. Acquisition Strategies are structured to retain contractors capable of satisfying cost, schedule, and performance objectives. Contract awards incorporate provisions requiring contractors to establish and manage specific earned value data. This strategy mitigates risk by requiring monthly Contract Performance Reviews (CPRs) and utilizing award fee contracts where appropriate to incentivize performance. GCCS-J applies formal acquisition rigor to include reporting requirements, as appropriate, by acquisition program designation.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303150K / *Global Command and Control System*	Project (Number/Name) CC01 / *Global Command and Control System-Joint (GCCS-J)*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development 1	C/CPFF	NGMS : Reston, VA	20.289	-		-		-		-		-	0.000	20.289	-
Product Development 2	FFRDC	MITRE : McLean, VA	7.077	-		-		-		-		-	0.000	7.077	-
Product Development 3	SS/FFP	Dynamic Systems : Los Angeles, CA	3.189	-		-		-		-		-	0.000	3.189	-
Product Development 4	C/CPFF	Pragmatics : McLean, VA	31.239	-		-		-		-		-	0.000	31.239	-
Product Development 6	C/CPIF	BAH : McLean, VA	3.369	-		-		-		-		-	0.000	3.369	-
Product Development 7	C/CPIF	JPES Framework : Various	20.141	-		-		-		-		-	0.000	20.141	-
Product Development 8	C/CPFF	RTB Development : Various	13.116	-		-		-		-		-	0.000	13.116	-
Product Development 9	C/CPFF	IGS Development : Various	12.398	-		-		-		-		-	0.000	12.398	-
Product Development 10	C/CPFF	SAIC : Falls Church, VA	4.826	-		-		-		-		-	0.000	4.826	-
Product Development 11	MIPR	SSC : San Diego, CA	13.317	-		-		-		-		-	0.000	13.317	-
Product Development 12	C/CPFF	NGMS : Reston, VA	67.014	-		-		-		-		-	0.000	67.014	-
Product Development 13	MIPR	NGIT : Various	1.772	-		-		-		-		-	0.000	1.772	-
Product Development 14	C/CPFF	NGMS : Reston, VA	86.191	2.100	Dec 2019	-		-		-		-	0.000	88.291	-
Product Development 15	C/CPIF	Booz Allen Hamilton : McLean, VA	3.283	-		-		-		-		-	0.000	3.283	-
Product Development 16	C/CPFF	Booz Allen Hamilton : Various	3.685	-		-		-		-		-	0.000	3.685	-
Product Development 17	C/CPAF	Booz Allen Hamilton : Falls Church, VA	1.229	-		-		-		-		-	0.000	1.229	-
Product Development 18	C/CPAF	AB Floyd : Alexandria, VA	12.477	-		-		-		-		-	0.000	12.477	-
Product Development 19	C/CPAF	Femme Comp Inc : Chantilly, VA	7.249	-		-		-		-		-	0.000	7.249	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System*	**Project (Number/Name)** CC01 / *Global Command and Control System-Joint (GCCS-J)*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development 20	C/CPFF	SAIC : Falls Church, VA	5.876	-		-		-		-		-	0.000	5.876	-
Product Development 21	C/CPIF	Booz Allen Hamilton : McLean, VA	5.865	-		-		-		-		-	0.000	5.865	-
Product Development 22	MIPR	JDISS : Various	6.039	-		-		-		-		-	0.000	6.039	-
Product Development 23	C/FFP	NGMS : Reston, VA	4.790	-		-		-		-		-	0.000	4.790	-
Product Development 24	MIPR	SPAWAR : Charleston, SC	11.475	1.681	Sep 2020	-		-		-		-	Continuing	Continuing	Continuing
Product Development 25	MIPR	Dept of Energy, Army Research Lab, PD Intelligence Fusion, GSA/FAS : Various	5.710	-		-		-		-		-	0.000	5.710	-
Product Development 26	C/CPAF	Tactical 3-D COP : Various	3.200	-		-		-		-		-	0.000	3.200	-
Product Development 27	SS/FFP	JITC : Various	20.400	-		-		-		-		-	0.000	20.400	-
Product Development 28	C/CPFF	JCRM : McLean, VA	8.600	-		-		-		-		-	Continuing	Continuing	Continuing
Product Development 30	C/CPFF	Systems Engineering and Integration : Various	14.030	-		-		-		-		-	0.000	14.030	-
Product Development 31	C/Various	GCCS-J : Various	5.367	-		-		-		-		-	0.000	5.367	-
Product Development 32	C/CPFF	CRSA/GDIT LLC : Chantilly, VA	14.193	-		-		-		-		-	0.000	14.193	-
Product Development 33	C/FFP	Interimage Inc : Arlington, VA	6.179	-		2.246	Mar 2021	-		-		-	Continuing	Continuing	Continuing
Engineering Services and Integration 29	SS/FFP	GCCS-J : Various	6.782	-		-		-		-		-	6.782	13.564	-
I3 Engineering Services & SW Development	C/TBD	NGIT : Various	1.811	-		-		-		-		-	0.000	1.811	-
Product Development 29	C/FFP	JOPES modernization : TBD	10.248	-		-		-		-		-	Continuing	Continuing	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System*	**Project (Number/Name)** CC01 / *Global Command and Control System-Joint (GCCS-J)*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development 34	C/CPFF	JPES Solution : Falls Church, VA	7.400	2.542	Jun 2020	0.307	Jun 2021	2.783	Jun 2022	-		2.783	Continuing	Continuing	Continuing
Product Development 35	C/CPFF	Leidos : Gaithersburg, MD	0.000	0.307	Aug 2020	-		-		-		-	Continuing	Continuing	Continuing
Product Development	C/CPFF	GCCS-JE OTA : McLean, VA	25.292	-		-		-		-		-	0.000	25.292	-
Product Development 37	C/CPFF	Leidos OTA : McLean, VA	10.134	-		-		-		-		-	Continuing	Continuing	Continuing
Product Development 38	C/CPFF	GCCS-J : Various	11.801	-		-		-		-		-	Continuing	Continuing	Continuing
Product Development 39	C/CPFF	Bluestone Logic : McLean, VA	1.499	-		-		-		-		-	Continuing	Continuing	Continuing
Product Development 40	C/CPFF	C2 Systems Engineering : TBD	-	3.563	Aug 2020	-		-		-		-	Continuing	Continuing	Continuing
Product Development 41	C/CPFF	Tapestry : Chambersburg, PA	3.048	-		-		-		-		-	Continuing	Continuing	Continuing
Product Development 42	C/CPFF	Leidos : McLean, VA	0.670	-		-		-		-		-	Continuing	Continuing	Continuing
Product Development 36	C/CPFF	TBD : C2 Systems Engineering	-	0.179	Aug 2020	0.442	Aug 2021	0.468	Aug 2022	-		0.468	Continuing	Continuing	Continuing
		Subtotal	502.270	10.372		2.995		3.251		-		3.251	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Support 1	C/T&M	Oracle : Various	1.003	-		-		-		-		-	0.000	1.003	-
Support 2	C/CPFF	JC2 Common Interface : Various	4.808	-		-		-		-		-	0.000	4.808	-
Support Costs - Engineering Support 3	FFRDC	MITRE : Various	0.754	0.908	Nov 2019	-		-		-		-	Continuing	Continuing	Continuing
Support Costs - Engineering Support 4	C/CPFF	Pragmatics : McLean, VA	3.799	0.342	Nov 2019	-		-		-		-	0.000	4.141	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System*	**Project (Number/Name)** CC01 / *Global Command and Control System-Joint (GCCS-J)*

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Support Costs - Engineering Support 5	C/CPFF	IPA : College Park, MD	0.283	-		-		-		-		-	0.000	0.283	-
Support Cost 6	C/FFP	STA : Falls Church, VA	2.772	-		-		-		-		-	0.000	2.772	-
Support Costs	C/CPFF	GCCS-J : Various	4.557	-		-		-		-		-	0.000	4.557	-
Support Cost 7	C/FFP	Pragmatics : McLean, VA	3.564	-		-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	21.540	1.250		-		-		-		-	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test & Evaluation 1	C/CPFF	SAIC : Falls Church, VA	0.744	-		-		-		-		-	0.000	0.744	-
Test & Evaluation 2	MIPR	JITC : Ft. Huachuca, AZ	33.365	1.311	Oct 2019	-		-		-		-	Continuing	Continuing	Continuing
Test & Evaluation 3	MIPR	DIA : Various	9.733	-		-		-		-		-	Continuing	Continuing	Continuing
Test & Evaluation 4	MIPR	DAA : Various	4.952	0.602	Oct 2019	-		-		-		-	Continuing	Continuing	Continuing
Test & Evaluation 5	C/CPFF	SAIC : Falls Church, VA	9.681	-		-		-		-		-	0.000	9.681	-
Test & Evaluation 6	C/CPAF	SAIC : Falls Church, VA	23.133	-		-		-		-		-	0.000	23.133	-
Test & Evaluation 7	C/CPFF	Pragmatics : McLean, VA	0.308	-		-		-		-		-	0.000	0.308	-
Test & Evaluation 8	MIPR	JITC : Various	0.005	-		-		-		-		-	0.000	0.005	-
Test & Evaluation 9	MIPR	JITC : Various	0.897	-		-		-		-		-	0.000	0.897	-
Test & Evaluation 10	MIPR	DISA FSO : Various	1.059	-		-		-		-		-	0.000	1.059	-
Test & Evaluation 11	MIPR	TEMC Test Support : Various	0.229	-		-		-		-		-	0.000	0.229	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System*	**Project (Number/Name)** CC01 / *Global Command and Control System-Joint (GCCS-J)*

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test & Evaluation 12	MIPR	DISA TEMC : Falls Church, VA	0.971	-		-		-		-		-	0.000	0.971	-
Test & Evaluation 13	MIPR	STRATCOM : Offut, NE	1.155	-		-		-		-		-	0.000	1.155	-
Test & Evaluation 14	MIPR	DISA FSO : Falls Church, VA	1.200	-		-		-		-		-	0.000	1.200	-
Test & Evaluation 15	C/CPFF	TQI : Falls Church, VA	1.698	-		-		-		-		-	0.000	1.698	-
Test & Evaluation 16	C/CPFF	TQI : Falls Church, VA	0.494	-		-		-		-		-	0.000	0.494	-
Test & Evaluation 17	MIPR	Slidell : Various	0.436	-		-		-		-		-	0.000	0.436	-
Test & Evaluation 19	C/CPFF	NextGen Federal Systems LLC : Morgantown,WV	-	0.999	Aug 2020	0.700	Aug 2021	0.899	Aug 2022	-		0.899	Continuing	Continuing	-
		Subtotal	90.060	2.912		0.700		0.899		-		0.899	Continuing	Continuing	N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Services	MIPR	SSC Atlantic : Charleston, SC	3.759	-		-		-		-		-	0.000	3.759	-
		Subtotal	3.759	-		-		-		-		-	0.000	3.759	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	617.629	14.534		3.695		4.150		-		4.150	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System*	**Project (Number/Name)** CC01 / *Global Command and Control System-Joint (GCCS-J)*

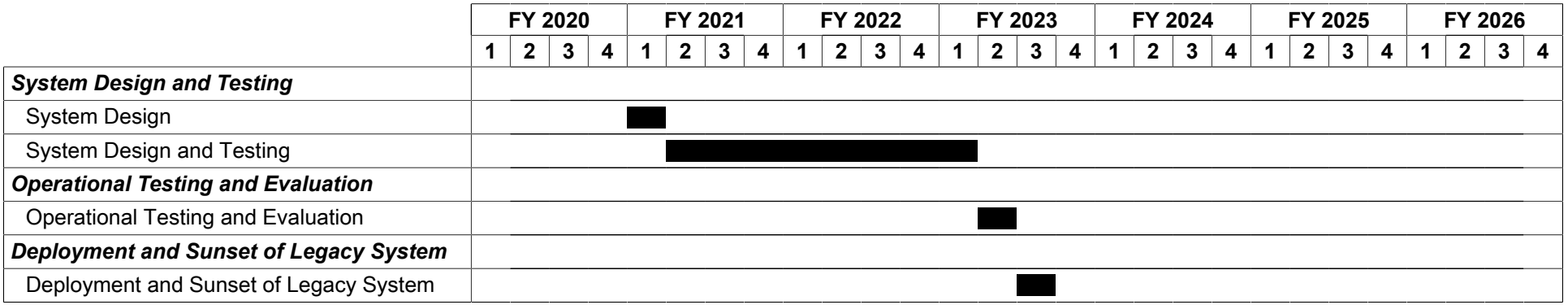


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System*	**Project (Number/Name)** CC01 / *Global Command and Control System-Joint (GCCS-J)*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
System Design and Testing				
System Design	1	2021	1	2021
System Design and Testing	2	2021	1	2023
Operational Testing and Evaluation				
Operational Testing and Evaluation	2	2023	2	2023
Deployment and Sunset of Legacy System				
Deployment and Sunset of Legacy System	3	2023	3	2023

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	198.390	19.212	20.113	19.302	-	19.302	-	-	-	-	Continuing	Continuing
JS1: *Joint Spectrum Center*	198.390	19.212	20.113	19.302	-	19.302	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Spectrum Organization (DSO) provides a full array of electromagnetic spectrum services and capabilities, ranging from short notice on-the-ground operational support at the forward edge, to long range planning in pursuit of national strategic objectives. These services/capabilities are in direct support of Combatant Commanders, the Department of Defense (DoD) Chief Information Officer, Military Services, and Defense Agencies. The DSO is the focal point for electromagnetic spectrum analysis and the development of integrated spectrum plans and strategies to address current and future needs for DoD spectrum access. In addition, DSO serves as DoD's spectrum advocate at national and international forums and conducts extensive outreach to both industry and government. DSO also implements enterprise spectrum management capabilities to enhance spectrum efficiency and agility to improve spectrum-dependent capabilities in support of United States and Coalition operations. This includes acquiring, implementing and sustaining the Global Electromagnetic Spectrum Information System (GEMSIS) which provides an integrated catalog of joint net-centric spectrum management tools and services. Electromagnetic Spectrum Management enables information dominance through effective spectrum operations.

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	19.212	20.113	21.932	-	21.932
Current President's Budget	19.212	20.113	19.302	-	19.302
Total Adjustments	0.000	0.000	-2.630	-	-2.630
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	-2.630	-	-2.630

Change Summary Explanation

The decrease of -$2.630 in FY 2022 is due to reduction in requirements to develop new emerging spectrum technologies, spectrum capabilities within the Joint Ordnance Electromagnetic Environmental Effects (E3) Risk Assessment Database, and assessment work to determine the applicability of the Army's Electronic Warfare Planning and Management Tool (EWPMT) to the Electromagnetic Battle Management (EMBM) requirements.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303153K / *Defense Spectrum Organization*	Project (Number/Name) JS1 / *Joint Spectrum Center*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
JS1: *Joint Spectrum Center*	198.390	19.212	20.113	19.302	-	19.302	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Joint Spectrum Center (JSC), which is a division of Defense Spectrum Organization (DSO), designs, develops, and maintains Department of Defense (DoD) automated spectrum management systems, evaluation tools, and databases. The databases are the prime sources of information for DoD use of the electromagnetic (EM) spectrum. The JSC provides technical measurement and analysis in support of DoD spectrum policy decisions to ensure the development, acquisition, and operational deployment of systems are compatible with other spectrum dependent systems operating within the same EM environment (EME). Additional efforts focus on improving future warfighter EM spectrum utilization through technological innovation, and influencing research and development emerging technology efforts.

Improved spectrum support includes the Global Electromagnetic Spectrum Information System (GEMSIS), a net centric capability that will provide commanders with an increased common picture of spectrum situational awareness of friendly and hostile forces while transparently deconflicting competing mission requirements for spectrum use. This capability will enable the transformation from the current preplanned and static assignment strategy into autonomous and adaptive spectrum operations.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Advanced Spectrum Tools	0.883	0.883	-
Description: The Joint Spectrum Data Repository and Tools program supports development of spectrum management tools, spectrum modeling and simulation capabilities, spectrum database development, and spectrum data transformation and standardization. This program provides the Combatant Commands (COCOMs) and Military Services with the spectrum management tools and associated databases to manage spectrum resources at the strategic and operational level. It also provides the DoD acquisition community with analytical tools to conduct Electromagnetic Environmental Effects (E3) analyses and Spectrum Supportability Risk Assessments (SSRA). ***FY 2021 Plans:*** Will make enhancements to analytical tools in support of Spectrum Engineering Analysis and Relocation efforts. Supports evaluation of future and existing spectrum analysis tools. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The decrease of -$0.883 from FY 2021 to FY 2022 realigns Advance Spectrum Tools program into a new line called the New Spectrum Paradigms.			
Title: DoD Electromagnetic Environmental Effects (E3) Program	4.203	4.203	3.074

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*	**Project (Number/Name)** JS1 / *Joint Spectrum Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Description: The DoD E3 Program supports the Joint Capabilities Integration and Development System (JCIDS) process and the DoD acquisition process to ensure that E3 control and spectrum supportability are incorporated into the development, testing, and procurement of information technology and National Security Systems. The E3 Program also supports the development of the Joint Ordnance E3 Risk Assessment Database (JOERAD) and Hazards of Electromagnetic Radiation to Ordnance (HERO) electromagnetic environmental effects surveys in support of the COCOMs and Joint Task Forces. JOERAD develops algorithms and provides analytical capabilities to perform real-time risk assessments to evaluate platform/system safety and identify equipment limitations in the operational EM environment. JOERAD enables operators to make critical decisions about the hazards associated with the use of ordnance within complex EM environments. A SSRA is performed by program managers and materiel developers on all programs that are acquiring or incorporating spectrum-dependent systems or equipment per DoDI 4650.1. These assessments encompassed regulatory, technical, and operational spectrum and E3 issues and associated risks.			
FY 2021 Plans: Will continue to conduct JOCG HERO Subgroup meetings, support the JOCG Executive Steering Committee and develop and maintain the Services' HERO susceptibility data records. Will conduct forward deployed base HERO surveys for the COCOMs/ Services, and CONUS based emitter surveys for ordnance safety database validation and update the DoD ordnance radio frequency (RF) safety requirements. Will update military handbooks as needed to keep pace with technology. Will conduct monthly DoD E3 Integrated Product Team (IPT) Meetings. Will provide technical support to DoD CIO, the Joint Staff, and other DoD Components on E3, spectrum, hazards of EM radiation matters. Will review JCIDS and ISP acquisition documents assigned by the Joint Staff and DoD CIO and update guidance instructions as necessary. Will provide E3 and SS training to the DoD Components and develop/maintain training curricula at the Defense Acquisition University.			
FY 2022 Plans: Will continue to conduct JOCG HERO Subgroup meetings, support the JOCG Executive Steering Committee and develop and maintain the Services' HERO susceptibility data records. Will conduct forward deployed base HERO surveys for the COCOMs/ Services, and CONUS based emitter surveys for ordnance safety database validation and update the DoD ordnance RF safety requirements. Will update MIL-HDBK-235, "EME Profiles" and develop EME profiles to address blue force jammer and electronic warfare environments. Will conduct monthly DoD E3 Integrated Product Team (IPT) Meetings. Will provide technical support to DoD CIO, the Joint Staff, and other DoD Components on E3, spectrum, hazards of EM radiation matters. Will review JCIDS and ISP acquisition documents assigned by the Joint Staff and DoD CIO and update guidance instructions as necessary. Will provide E3 and SS training to the DoD Components and develop/maintain training curricula at the Defense Acquisition University.			
FY 2021 to FY 2022 Increase/Decrease Statement:			

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*	**Project (Number/Name)** JS1 / *Joint Spectrum Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
The decrease of -$1.129 from FY 2021 to FY 2022 is due to the reduced number of forward deployed base HERO surveys for COCOMs/Services and any CONUS based emitter surveys for ordnance safety database validation. This will also reduce the number of E3 and SS training events delivered to DoD Components.			
Title: Emerging Spectrum Technologies (EST) ***Description:*** DSO has the responsibility to investigate emerging spectrum related technologies and evaluate their applicability to improve future warfighter EM spectrum utilization through technological innovation. The goal of the EST program is to identify the opportunities and risks associated with emerging spectrum-related technologies in the early stages of the technology development, influence and lead technology development in order to maximize DoD spectrum utilization, and ensure that spectrum policies incorporate optimal technology to meet DoD mission requirements. Within EST there is an increased focus on Dynamic Spectrum Access (DSA). DSA is realized through wireless networking architectures and technologies that enable wireless devices to dynamically adapt their spectrum access according to criteria such as policy constraints, spectrum availability, propagation environment, and application performance requirements. ***FY 2021 Plans:*** Will continue collaboration efforts with the Science and Technology community (including ASDR&E, Service Labs and DARPA) to develop and execute the technology roadmaps and integration strategies that result in system flexibility and operational agility. Revisions will be made to the current spectrum management architecture to reflect transforming spectrum operations through application of EST in accordance with the new DoD EMS Spectrum Strategy. Prototype capabilities that provide increased operational agility will be developed and demonstrated. Continue to develop initiatives that include the roadmap, standards, architecture, and business processes to exploit and/or minimize the impact of emerging technologies on DoD spectrum operations. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The decrease of -$2.215 from FY 2021 to FY 2022 realigns the Emerging Spectrum Technologies program into a new line called the New Spectrum Paradigms.	1.630	2.215	-
Title: Global Electromagnetic Spectrum Information System (GEMSIS) ***Description:*** The GEMSIS is a net centric capability that will provide operational commanders with an increased common picture of spectrum situational awareness of friendly and hostile forces while transparently deconflicting competing mission requirements for spectrum use. This capability will enable the transformation from the current preplanned and static assignment strategy into autonomous and adaptive spectrum operations. ***FY 2021 Plans:***	-	12.812	0.751

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*	**Project (Number/Name)** JS1 / *Joint Spectrum Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Will continue (SXXI) Legacy, E2ESS, and JSDR maintenance and version releases. ***FY 2022 Plans:*** Will continue (SXXI) Legacy, E2ESS, and JSDR maintenance and version releases. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The decrease of -$12.061 from FY 2021 to FY2022 is due to Electromagnetic Battlefield Management (EMBM) program is required to be broken out in a separate line.			
Title: Electromagnetic Battlefield Management (EMBM) (C2 Capabilities/Data Interface&Visualization, EW Planning/Mgt Tool) ***Description:*** The Electromagnetic Battle Management (EMBM) mission capability responds to a Department of Defense (DoD) Electronic Warfare (EW) Strategy objective to field advanced EMBM capabilities and to a DoD Electromagnetic Spectrum Strategy goal to increase the agility of DoD electromagnetic spectrum (EMS) operations by developing the capabilities to preform near-real-time EMS operations (EMSO). As part of planning, resourcing, implementing and assessing Joint Electromagnetic Spectrum Operations (JEMSO), an EMBM technical solution will provide a secure and globally connected suite of dynamic tools to provide situational awareness, command and control (C2), decision support and training. The system is planned to provide a range of capabilities that will improve upon existing software applications useful for JEMSO and access information from other related operational systems to provide a long-term solution for operational EMS planning, execution and assessment capabilities. ***FY 2022 Plans:*** DSO will continue to develop the Electromagnetic Battlespace Management (EMBM) mission capability IAW DoD's Electromagnetic Spectrum Strategy goal to increase the agility of DoD spectrum operations. Will continue to develop new C2 Capabilites, Data Interface & Visualization requirements, and the EW planning and management tool. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The increase of +$12.620 from FY2021 to FY2022 is due to EMBM requirement being broken out into its own program. The increase includes the decrease on the GEMSIS line. Additional increase in the development requirements for additional improvement in C2 Capabilities and continued development of the EW planning and management tool requirement.	12.496	-	12.620
Title: New Spectrum Paradigms ***Description:*** DSO new spectrum paradigms is to investigate emerging spectrum related technologies and evaluate their applicability to improve future warfighter EM spectrum utilization through technological innovation. The goal of the EST program is to identify the opportunities and risks associated with emerging spectrum-related technologies in the early stages of the technology development, influence and lead technology development in order to maximize DoD spectrum utilization, and ensure that spectrum policies incorporate optimal technology to meet DoD mission requirements. Within EST there is an increased focus on Dynamic Spectrum Access (DSA). DSA is realized through wireless networking architectures and technologies that	-	-	2.857

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*	**Project (Number/Name)** JS1 / *Joint Spectrum Center*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
enable wireless devices to dynamically adapt their spectrum access according to criteria such as policy constraints, spectrum availability, propagation environment, and application performance requirements. DSO has the responsibility to investigate emerging spectrum related technologies and evaluate their applicability to improve future warfighter EM spectrum utilization through technological innovation. The goal of the EST program is to identify the opportunities and risks associated with emerging spectrum-related technologies in the early stages of the technology development, influence and lead technology development in order to maximize DoD spectrum utilization, and ensure that spectrum policies incorporate optimal technology to meet DoD mission requirements. Within EST there is an increased focus on Dynamic Spectrum Access (DSA). DSA is realized through wireless networking architectures and technologies that enable wireless devices to dynamically adapt their spectrum access according to criteria such as policy constraints, spectrum availability, propagation environment, and application performance requirements. The Joint Spectrum Data Repository and Tools program supports development of spectrum management tools, spectrum modeling and simulation capabilities, spectrum database development, and spectrum data transformation and standardization. This program provides the Combatant Commands (COCOMs) and Military Services with the spectrum management tools and associated databases to manage spectrum resources at the strategic and operational level. It also provides the DoD acquisition community with analytical tools to conduct Electromagnetic Environmental Effects (E3) analyses and Spectrum Supportability Risk Assessments (SSRA). ***FY 2022 Plans:*** Will continue to make enhancements to Spectrum Technology and Testbed Initiative in support of Spectrum Engineering Analysis and Relocation efforts. Supports evaluation of future and existing spectrum anyalysis tools. Will continue collaboration efforts with the Science and Technology community (including ASDR&E, Service Labs and DARPA) to develop and execute the technology roadmaps and integration strategies that result in system flexibility and operational agility. Revisions will be made to the current spectrum management architecture to reflect transforming spectrum operations through application of EST in accordance with the new DoD EMS Spectrum Strategy. Prototype capabilities that provide increased operational agility will be developed and demonstrated. Continue to develop initiatives that include the roadmap, standards, architecture, and business processes to exploit and/or minimize the impact of emerging technologies on DoD spectrum operations. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The increase of +$2.857 from FY 2021 to FY 2022 is the realignment of Advance Spectrum Tools with Emerging Spectrum Technologies and Emerging Spectrum Technologies into one line called New Spectrum Paradigms.			
Accomplishments/Planned Programs Subtotals	19.212	20.113	19.302

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*	**Project (Number/Name)** JS1 / *Joint Spectrum Center*	

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• O&M, DW/PE 0303153K: *O&M, DW*	34.270	34.902	35.743	-	35.743	-	-	-	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

Engineering support services are provided by the use of a contract. Competition is being used under existing Indefinite Delivery Indefinite Quantity (IDIQ) contracts. Task orders will be a mix of Firm Fixed Price (FFP) and Cost Plus Fixed Fee (CPFF) as dictated by specific tasks to be accomplished.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303153K / *Defense Spectrum Organization*	Project (Number/Name) JS1 / *Joint Spectrum Center*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Technical Engineering Services 1	C/FFP	Multi : Various	180.920	7.198	Nov 2019	9.176	Nov 2020	9.786	Apr 2022	-		9.786	Continuing	Continuing	Continuing
Technical Engineering Services 2	MIPR	Various : Various	6.099	11.684	Oct 2019	10.573	Oct 2020	9.152	Nov 2021	-		9.152	Continuing	Continuing	Continuing
		Subtotal	187.019	18.882		19.749		18.938		-		18.938	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test & Evaluation	MIPR	JITC : Ft. Huachuca	2.312	-		-		-		-		-	0.000	2.312	-
		Subtotal	2.312	-		-		-		-		-	0.000	2.312	N/A

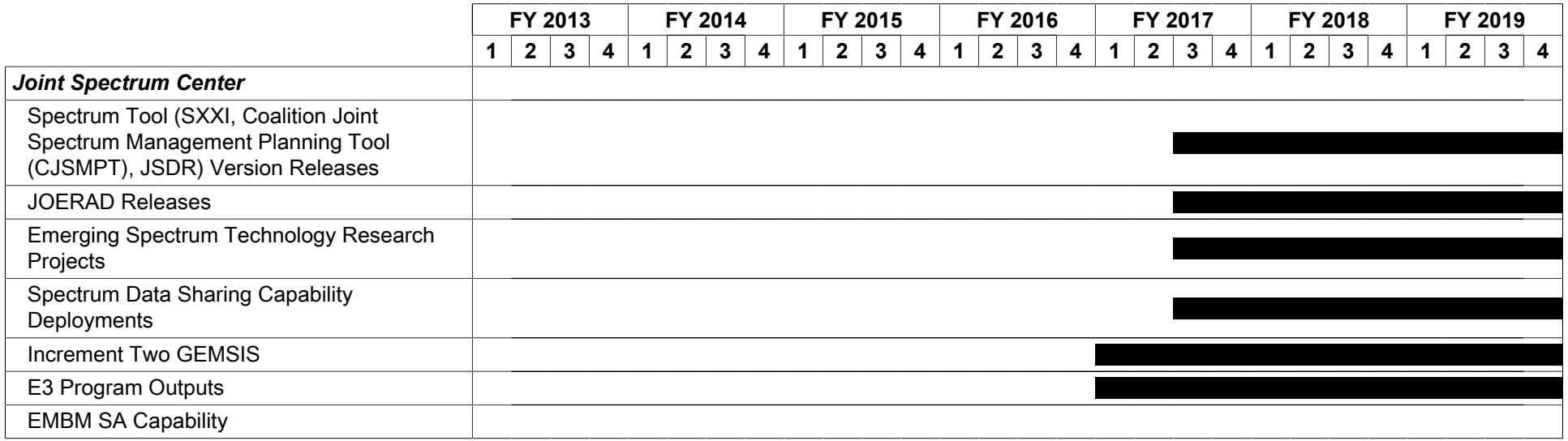
Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Services	FFRDC	MITRE : Ft. Monmouth, NJ	9.059	0.330	Nov 2019	0.364	Nov 2020	0.364	Nov 2021	-		0.364	Continuing	Continuing	Continuing
		Subtotal	9.059	0.330		0.364		0.364		-		0.364	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	198.390	19.212		20.113		19.302		-		19.302	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*	**Project (Number/Name)** JS1 / *Joint Spectrum Center*



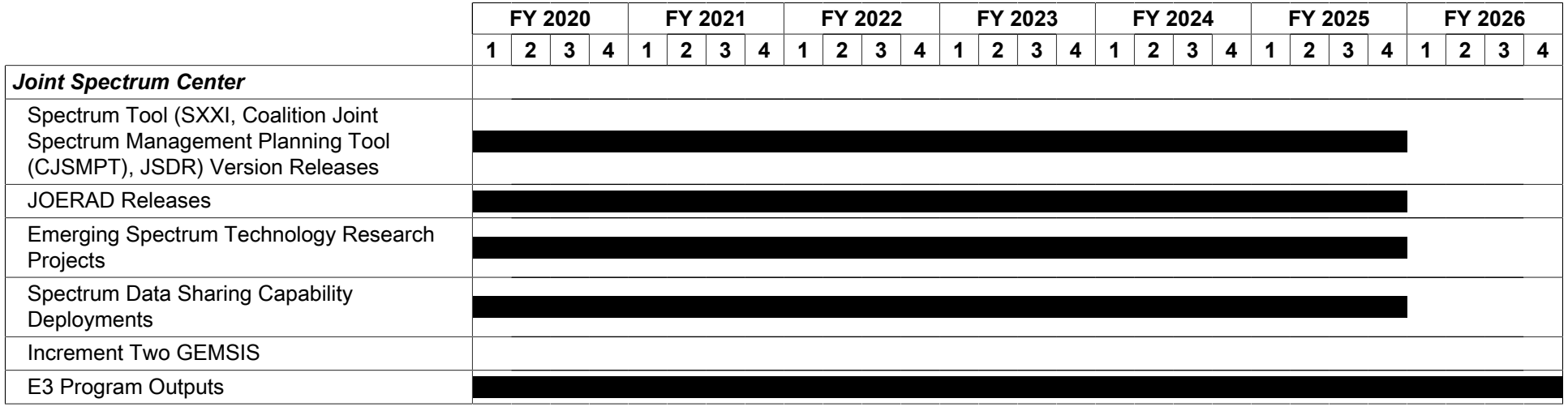


Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*	**Project (Number/Name)** JS1 / *Joint Spectrum Center*

	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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
EMBM SA Capability																												

Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303153K / *Defense Spectrum Organization*	**Project (Number/Name)** JS1 / *Joint Spectrum Center*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Joint Spectrum Center				
Spectrum Tool (SXXI, Coalition Joint Spectrum Management Planning Tool (CJSMPT), JSDR) Version Releases	3	2017	4	2025
JOERAD Releases	3	2017	4	2025
Emerging Spectrum Technology Research Projects	3	2017	4	2025
Spectrum Data Sharing Capability Deployments	3	2017	4	2025
Increment Two GEMSIS	1	2017	4	2019
E3 Program Outputs	1	2017	4	2026
EMBM SA Capability	2	2020	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303228K / *Joint Information Environment*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	14.996	16.869	9.728	9.342	-	9.342	-	-	-	-	Continuing	Continuing
JE1: *Joint Regional Security Stacks*	14.996	16.869	9.728	9.342	-	9.342	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Joint Information Environment (JIE) construct is a consolidated secure and defensible environment across Department of Defense (DoD). This is comprised of unified, consolidated and shared information technology (IT) infrastructure, enterprise services, and standardized security architectures throughout the Department of Defense Information Network (DODIN) to achieve full spectrum superiority, improve mission effectiveness, increase security and realize IT efficiencies.

The target objective state of JIE is a DODIN that optimizes the use of DoD's IT assets from the administrative and operational planning at the Pentagon to the tactical edge; to include our mission partners through converging communications, computing, enterprise services, and defense of the DODIN that can be leveraged for all Department missions.

When implemented, JIE will reduce DoD's Total Cost of Ownership (TCO), improved security by reducing the attack surface of our networks, and enable Combatant Commands/Services/Agencies (CC/S/A) to more efficiently access information to perform their missions from any authorized IT device, any time, from anywhere in the world.

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	16.869	9.728	2.945	-	2.945
Current President's Budget	16.869	9.728	9.342	-	9.342
Total Adjustments	0.000	0.000	6.397	-	6.397
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	6.397	-	6.397

Change Summary Explanation

The Increase of +$6.397 in FY 2022 is attributed to integration, testing, and development of JRSS/JMS hardware/software to support tech refresh of end-of-support/end-of-life appliances.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303228K / *Joint Information Environment*	Project (Number/Name) JE1 / *Joint Regional Security Stacks*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
JE1: *Joint Regional Security Stacks*	14.996	16.869	9.728	9.342	-	9.342	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Joint Regional Security Stack (JRSS) is a joint Department of Defense (DoD) security architecture deployed regionally throughout the world. Each of the 23 Non-Secure Internet Protocol Router (NIPR) and 25 Secure Internet Protocol Router (SIPR) stacks is comprised of complementary defensive security solutions that remove redundant Information Assurance (IA) protections; leverages enterprise defensive capabilities with standardized security suites; protects the enclaves after the separation of server and user assets; and provides the tool sets necessary to monitor and control all security mechanisms throughout DoD's Joint Information Environment. The JRSS Management System (JMS) is the management and operational control suite/capability for the JRSS. While the JMS is treated as a related effort, it requires its own experience and evaluation strategy as the JMS is a selection of best of breed capabilities. The JMS is a system-of-systems designed to centralize and enhance the management of the JRSS components and achieve economies of scale by using DoD common suites/infrastructure. The savings are realized by coupling the JRSS and JMS. The JRSS collapses replicated IT security functionality for all DoD components into relatively few regionally located stacks. The JMS provides Centralized Network Management of the JRSS with a standard interoperable set of capabilities across DoD. JMS provides visibility and control over network transport and associated security systems. It enables monitoring and analysis of relevant fault and performance data to determine the impact on current operations and trend analysis. This centralized capability allows standardization of policies, procedures and configurations of critical network transport assets. The JMS enables DoD Components to maintain Title 10 required management and visibility of their IT security while providing high level visibility to Cyber Command (CYBERCOM). Cyber Operations can take proactive actions to ensure the uninterrupted availability and protection of system and network information.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Joint Regional Security Stacks	16.869	9.728	9.342
Description: The Joint Regional Security Stack (JRSS) is a joint DoD security architecture deployed regionally throughout the world. Each of the 23 NIPR and 25 SIPR stacks is comprised of complementary defensive security solutions that remove redundant Information Assurance (IA) protections; leverages enterprise defensive capabilities with standardized security suites; protects the enclaves after the separation of server and user assets; and provides the tool sets necessary to monitor and control all security mechanisms throughout DoD's Joint Information Environment.			
FY 2021 Plans: Will provide integration, testing, and development of JRSS/JMS hardware/software to support tech refresh of end-of-support/end-of-life appliances. Support pathfinder efforts associated with JRSS optimization and evolution.			
FY 2022 Plans:			

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303228K / *Joint Information Environment*	**Project (Number/Name)** JE1 / *Joint Regional Security Stacks*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Will provide integration, testing, and development of JRSS/JMS hardware/software to support tech refresh of end-of-support/end-of-life appliances. Support pathfinder efforts associated with JRSS optimization and evolution. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The decrease of -$.386 from FY 2021 to FY 2022 is attributed to decreased JRSS pathfinder efforts associated with JRSS optimization and evolution.			
Accomplishments/Planned Programs Subtotals	16.869	9.728	9.342

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

N/A

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303228K / *Joint Information Environment*	**Project (Number/Name)** JE1 / *Joint Regional Security Stacks*	

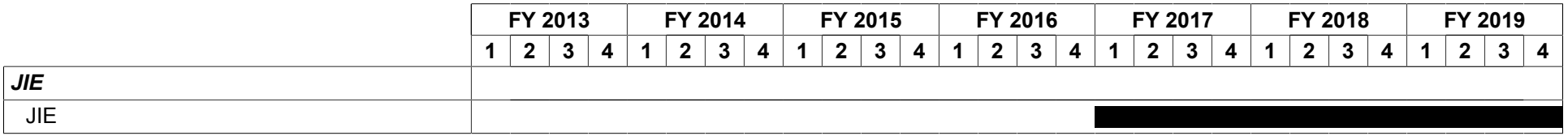
Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Certification Testing	Various	Various : Various	1.532	-		-		-		-		-	0.000	1.532	-
Test and Evaluation Support	Various	JITC : Various	2.068	0.500	Oct 2019	0.500	Oct 2021	0.550	Oct 2022	-		0.550	Continuing	Continuing	-
Integration Test and Modification	Various	Multiple : Various	2.247	0.537	Dec 2019	0.682	Dec 2020	0.750	Dec 2021	-		0.750	Continuing	Continuing	-
Tech Refresh/Functionality Testing	Various	Multiple : Various	5.339	0.750	Dec 2019	0.700	Dec 2020	1.245	Dec 2021	-		1.245	Continuing	Continuing	-
Analytic Development & Testing (CSAAC)	Various	Multiple : Various	3.810	1.010	Dec 2019	-		-		-		-	0.000	4.820	-
JRSS Integration Test and Acceptance Support	Various	Multiple : Various	-	2.595	Mar 2020	7.846	Dec 2020	6.797	Jan 2022	-		6.797	Continuing	Continuing	-
JRSS Integration Test and Acceptance Support_2	Various	Multiple : Various	-	6.309	Apr 2020	-		-		-		-	Continuing	Continuing	-
JRSS Integration Test and Acceptance Support_3	Various	Multiple : Various	-	5.168	Sep 2020	-		-		-		-	Continuing	Continuing	-
		Subtotal	14.996	16.869		9.728		9.342		-		9.342	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	14.996	16.869		9.728		9.342		-		9.342	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303228K / *Joint Information Environment*	**Project (Number/Name)** JE1 / *Joint Regional Security Stacks*



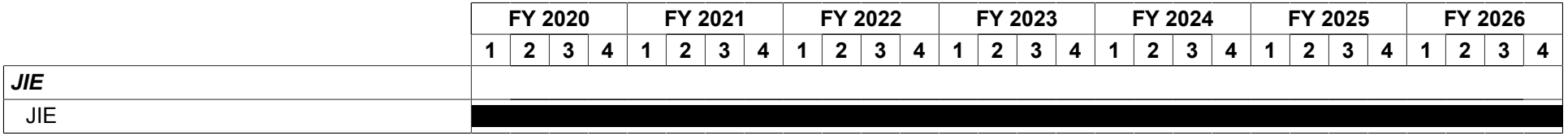


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303228K / *Joint Information Environment*	**Project (Number/Name)** JE1 / *Joint Regional Security Stacks*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
JIE				
JIE	1	2017	4	2026

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303430K / *Federal Investigative Services Information Technology*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	176.613	44.001	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing
KA1: *Federal Investigative Services Information Technology*	176.613	44.001	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Develop an enterprise Information Technology (IT) architecture and data strategy for modernizing Investigative capabilities supporting background investigations (BI) (replacing capabilities such as Office of Personnel Management (OPM's) eAdjudication and eApplication). Provides a new, secure infrastructure and investigative support system for Department of Defense (DoD) and Federal Agencies utilizing web/cloud based capabilities and robust cybersecurity. Leverages DoD's cybersecurity capabilities and national security focus to protect government and contractors' personal and investigative information. Supports the distributed adjudication processes with built-in security; active governance structure, and a new national security culture based on process improvement/change management.

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	44.001	0.000	0.000	-	0.000
Current President's Budget	44.001	0.000	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

No vertical change statement required.

C. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Background Investigation Information Technology Systems	44.001	-	-
Description: Implements the decision by the Interagency Deputies Committee and the Office of Management and Budget (OMB) to transfer responsibility for the development and sustainment of new Federal Government background investigation information technology (IT) system(s) from the OPM to the DoD beginning in FY 2017.			

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303430K *I Federal Investigative Services Information Technology*

C. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Accomplishments/Planned Programs Subtotals	44.001	-	-

D. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• 0303430K, O&M: *Background Investigation Information Technology Systems*	82.046	0.000	0.000	-	0.000	-	-	-	-	82.046	82.046

Remarks

E. Acquisition Strategy

- Leverage existing secure infrastructure/capabilities coordinated with United States Cyber Command (USCYBERCOM) and Department of Defense (DoD) security functions
- Assess Key Performance Parameter (KPP) of existing Government-Off-The-Shelf (GOTS)/Commercial Off-the-Shelf (COTS) products for enterprise scaling
- Establish support agreements with capability/data providers
- Transition to Cloud Infrastructure and development, security and operations (DevSecOps) pipeline and refactor necessary capabilities for Cloud
- Incrementally test and release the 7 core capabilities using Agile software development methodology
- Government is the Lead System Integrator
- Contract Strategy
-- Integrated Management (IM) prototype capability using Other Transactional Authority (Section 815 NDAA 2015/2016)
-- Re-use / extend successes from the IM prototype
-- Leverage investment in Defense Manpower Data Center (DMDC) developed capabilities for initial deployments:
--- Fingerprint and biometrics processing (Continue to leverage)
--- Automated records checking (ARC) (Transition to system agnostic data broker & Sunset)
--- Adjudication (Transition to integrated architecture with case management and Sunset)
--- Continuous evaluation (CE) (Transition to system agnostic data broker & Sunset)
- Initiate Security Enterprise Architecture leveraging IdAM, Modular Workflow Engines, Artificial Intelligence, Machine Learning, and Natural Language Processing capabilities
- Re-factor ARC, CE, and Adjudication capabilities

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303430K / *Federal Investigative Services Information Technology*	Project (Number/Name) KA1 / *Federal Investigative Services Information Technology*	

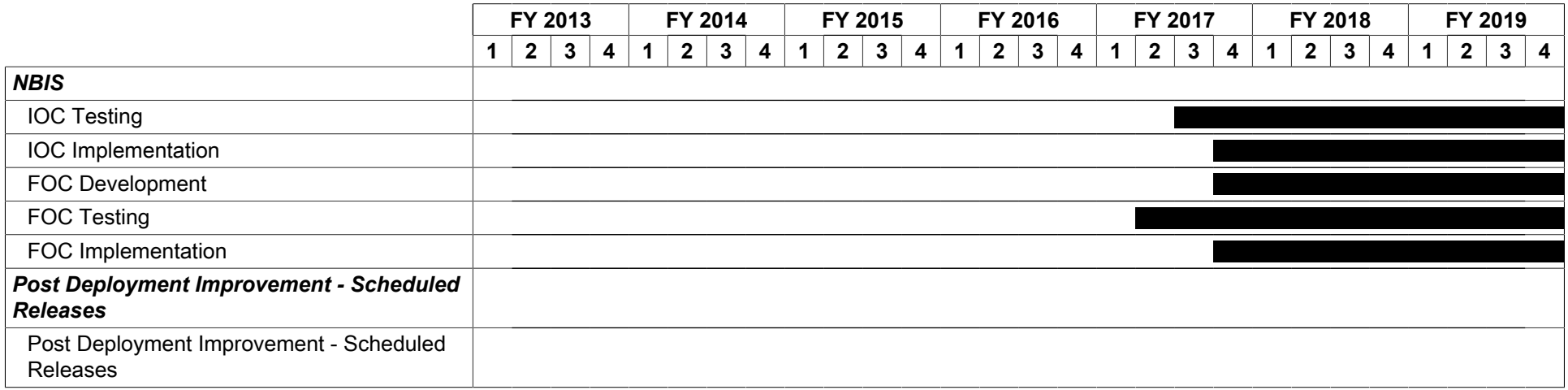
Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
System Engineering	C/Various	Various : Various	3.116	1.040	Dec 2019	0.000		-		-		-	Continuing	Continuing	-
Application Development	C/Various	Various : Various	166.667	38.214	Dec 2019	0.000		-		-		-	Continuing	Continuing	-
Testing	C/Various	Various : Various	6.830	4.747	Dec 2019	0.000		-		-		-	Continuing	Continuing	-
		Subtotal	176.613	44.001		0.000		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	176.613	44.001		0.000		-		-		-	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303430K / *Federal Investigative Services Information Technology*	**Project (Number/Name)** KA1 / *Federal Investigative Services Information Technology*



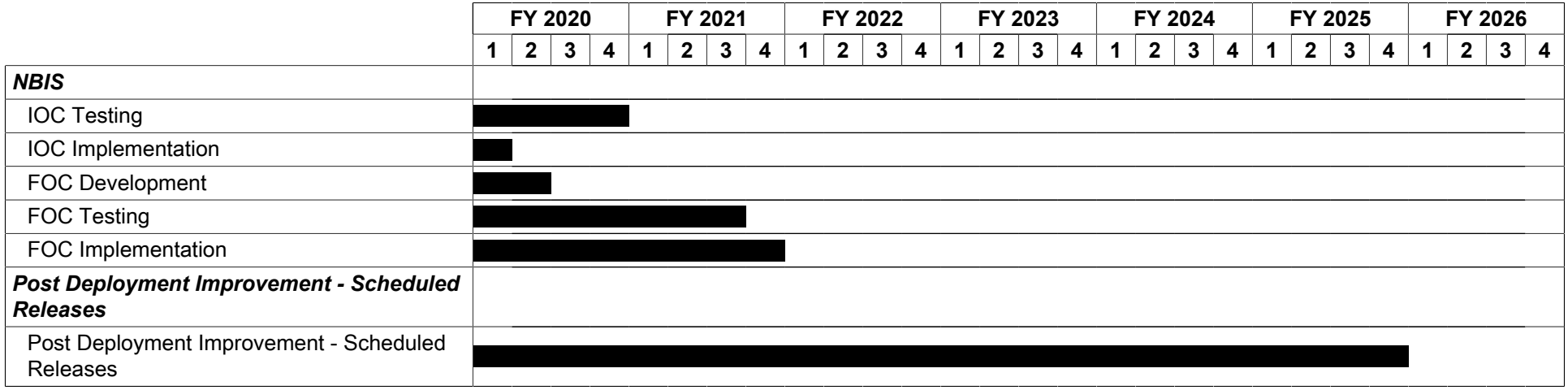


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303430K / *Federal Investigative Services Information Technology*	**Project (Number/Name)** KA1 / *Federal Investigative Services Information Technology*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
NBIS				
IOC Testing	3	2017	4	2020
IOC Implementation	4	2017	1	2020
FOC Development	4	2017	2	2020
FOC Testing	2	2017	3	2021
FOC Implementation	4	2017	4	2021
Post Deployment Improvement - Scheduled Releases				
Post Deployment Improvement - Scheduled Releases	1	2020	4	2025

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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303467K *I Spectrum Efficient National Surveillance Radar (SENSR) Pipeline Spectrum Relocation Fund*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	0.230	11.484	0.000	0.000	-	0.000	-	-	-	-	-	-
JS1: *SENSR Spectrum Pipeline SRF*	0.230	11.484	0.000	0.000	-	0.000	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Commercial Spectrum Enhancement Act (CSEA) of 2004 created the Spectrum Relocation Fund (CSEA, Title II of P.L. 108-494) to provide a centralized and streamlined funding mechanism through which Federal agencies can recover the costs associated with relocating their radio communications systems from certain spectrum bands, which were authorized to be auctioned for commercial purposes.

On January 29, 2015, the Federal Communications Commission completed an auction of Advanced Wireless Service licenses in the 1695-1710 Megahertz (MHz),1755-1780 MHz, and 2155-2180 MHz bands (collectively, the "AWS-3" bands). On June 23, 2015, the Office of Management and Budget (OMB) notified Congress of the forthcoming transfer of $5.030 billion to federal agencies with systems affected by the AWS-3 transition. Following the conclusion of the 30-day statutory waiting period, OMB transferred the funds to the federal agencies.

The Department of Defense (DoD) received $3.500 billion of the auction proceeds and created a $500 million Spectrum Access Research and Development Program (SAR&DP) to investigate new DoD technologies. The SAR&DP encompasses spectrum technology development that enables the DoD to perform its missions using spectrum-dependent systems in a manner that preferably enhances operational readiness and capability. Being able to operate in accordance with spectrum allocations resulting after the spectrum auction is a necessary, but not sufficient requirement for pursued technology solutions. DoD's transition out of or sharing of the auctioned bands can only be successful if the research and development solutions are sufficiently resilient (survivable and electronically protected) to operate in both the United States and congested/contested spectrum environments wherever forces will be deployed.

This program represents the DISA investment within the SAR&DP.

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0303467K *I Spectrum Efficient National Surveillance Radar (SENSR) Pipeline Spectrum Relocation Fund*

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	11.484	0.000	0.000	-	0.000
Current President's Budget	11.484	0.000	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

No statement required.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303467K / *Spectrum Efficient National Surveillance Radar (SENSR) Pipeline Spectrum Relocation Fund*	Project (Number/Name) JS1 / *SENSR Spectrum Pipeline SRF*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
JS1: *SENSR Spectrum Pipeline SRF*	0.230	11.484	0.000	0.000	-	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Funding supports Spectrum relocation and sharing activities.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: SENSR Spectrum Pipeline SRF	11.484	-	-
Description: Funding supports SENSR Spectrum Pipeline relocation and sharing activities			
Accomplishments/Planned Programs Subtotals	11.484	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0303467K / *Spectrum Efficient National Surveillance Radar (SENSR) Pipeline Spectrum Relocation Fund*	Project (Number/Name) JS1 / *SENSR Spectrum Pipeline SRF*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Funding supports SENSR Spectrum Pipeline relocation and sharing activities	Various	Various : Various	0.230	11.484	Apr 2020	-		-		-		-	-	-	-
		Subtotal	0.230	11.484		-		-		-		-	-	-	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.230	11.484		0.000		-		-		-	-	-	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303467K / *Spectrum Efficient National Surveillance Radar (SENSR) Pipeline Spectrum Relocation Fund*	**Project (Number/Name)** JS1 / *SENSR Spectrum Pipeline SRF*

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Auctioned Spectrum Relocation Fund																												
Support SENSR Spectrum Pipeline relocation activities																									[redacted]			

	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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
Auctioned Spectrum Relocation Fund																												
Support SENSR Spectrum Pipeline relocation activities																												

Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0303467K / *Spectrum Efficient National Surveillance Radar (SENSR) Pipeline Spectrum Relocation Fund*	**Project (Number/Name)** JS1 / *SENSR Spectrum Pipeline SRF*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Auctioned Spectrum Relocation Fund				
Support SENSR Spectrum Pipeline relocation activities	1	2019	4	2019

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0305208K / *Distributed Common Ground/Surface Systems*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	58.975	2.981	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing
NF1: *Distributed Common Ground/Surface Systems*	58.975	2.981	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

As the sole joint interoperability certification agent, the Joint Interoperability Test Command (JITC) established and maintains a Distributed Development and Test Enterprise (T&E) for the Department of Defense (DoD) Distributed Common Ground/Surface System (DCGS) program, as directed by the Office of the Under Secretary of Defense Intelligence (OUSD(I)). DCGS is an integral and critical component of the overall DoD Intelligence, Surveillance, and Reconnaissance interoperability and data integration strategy which provides world-wide capabilities to receive, process, exploit, and disseminate data from airborne and national reconnaissance sensors/ platforms and commercial sources.

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	2.981	0.000	0.000	-	0.000
Current President's Budget	2.981	0.000	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

No vertical statement required.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0305208K / *Distributed Common Ground/Surface Systems*	Project (Number/Name) NF1 / *Distributed Common Ground/Surface Systems*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
NF1: *Distributed Common Ground/Surface Systems*	58.975	2.981	0.000	0.000	-	0.000	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Joint Interoperability Test Command (JITC) coordinates with the Military Services and Defense Intelligence Agencies to conduct Joint/Distributed Common Ground/ Surface System (DCGS) testing and analysis, including event coordination, configuration, instrumentation and integration functions on the Distributed Development and Test Enterprise (DDTE). Under the DCGS Governance, this effort, referred to as the DCGS Test and Evaluation (T&E) Focus Team (FT), is composed of three parts: the DDTE Focus Group, providing and sustaining a distributed development network; the Strategy Focus Group, looking at current and future net-enabled enterprise T&E methods; and the Execution Focus Group, which leverages the Strategy Focus Group's methodologies in executing DCGS Enterprise assessment events, such as the annual DCGS demonstration, ENTERPRISE CHALLENGE. These efforts improve systems engineering and T&E throughout all phases of the DCGS life-cycle, resulting in improved capabilities to share net-centric data and services between the DCGS Programs of Record (PoRs) and the overarching Defense Intelligence Information Enterprise (DI2E).

Operates and maintains the DDTE, providing DCGS PoRs a virtual, operationally-relevant assessment environment maintaining connectivity between Service facilities, National Agency capabilities, and Coalition partners. DDTE allows robust integration of modeling and simulation T&E capabilities across Joint DCGS events without introducing vulnerabilities to operational Command and Control networks and has enabled improvements in systems engineering, instrumentation and T&E throughout all phases of the DCGS life cycle.

DCGS PoRs and Coalition partners use the DDTE network, which supports the net-centric maturity assessment of the DCGS Enterprise under the DCGS Governance, to integrate architecture, standards, and capabilities for implementation of the DCGS Integration Backbone and support the migration to net-centricity, including DCGS Enterprise services for the Military Departments, DCGS-Special Operations Forces and the DCGS Intelligence Community. National Agency capabilities supporting DCGS include Geospatial Intelligence, Signals Intelligence, Measurement and Signature Intelligence and Human Intelligence, which are integrated and tested in the DDTE domain.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Distributed Common Ground/Surface Systems (DCGS)	2.981	-	-
Accomplishments/Planned Programs Subtotals	2.981	-	-

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0305208K / *Distributed Common Ground/Surface Systems*	**Project (Number/Name)** NF1 / *Distributed Common Ground/Surface Systems*

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0305208K / *Distributed Common Ground/Surface Systems*	Project (Number/Name) NF1 / *Distributed Common Ground/Surface Systems*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
In-House Contracts	MIPR	Various : Various	23.963	1.000	Oct 2019	-		-		-		-	0.000	24.963	-
		Subtotal	23.963	1.000		-		-		-		-	0.000	24.963	N/A

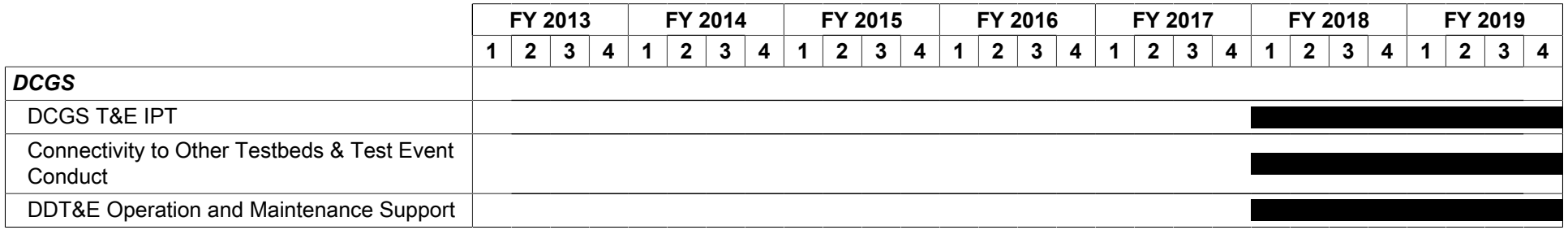
Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering & Technical Services 1	C/T&M	Interop : Ft Huachuca	3.763	-		-		-		-		-	0.000	3.763	-
Engineering & Technical Services 2	C/T&M	NGMS : Ft Huachuca	12.927	-		-		-		-		-	0.000	12.927	-
Engineering & Technical Services 3	C/T&M	NGIT : Ft Huachuca	3.612	-		-		-		-		-	0.000	3.612	-
Engineering & Technical Services 4	C/Various	Various : Various	2.173	-		-		-		-		-	0.000	2.173	-
Engineering & Technical Services 5	C/CPFF	TASC : Andover, MA	9.887	-		-		-		-		-	0.000	9.887	-
Engineering & Technical Services 6	MIPR	Various : Various	2.650	1.981	Dec 2019	-		-		-		-	0.000	4.631	-
		Subtotal	35.012	1.981		-		-		-		-	0.000	36.993	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	58.975	2.981		0.000		-		-		-	0.000	61.956	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0305208K / *Distributed Common Ground/Surface Systems*	**Project (Number/Name)** NF1 / *Distributed Common Ground/Surface Systems*



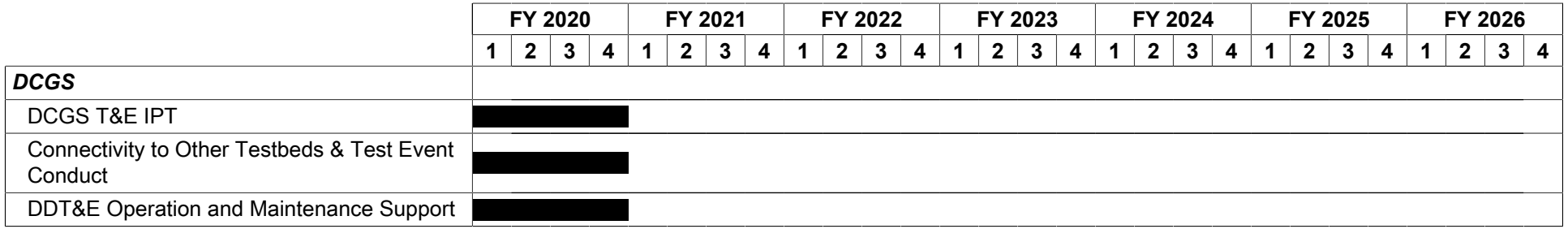


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0305208K / *Distributed Common Ground/Surface Systems*	**Project (Number/Name)** NF1 / *Distributed Common Ground/Surface Systems*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
DCGS				
DCGS T&E IPT	1	2018	4	2020
Connectivity to Other Testbeds & Test Event Conduct	1	2018	4	2020
DDT&E Operation and Maintenance Support	1	2018	4	2020

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 0708012K / *Logistics Support Activities*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	1.317	1.361	1.654	1.690	-	1.690	-	-	-	-	Continuing	Continuing
LSA: *Logistics Support Activities*	1.317	1.361	1.654	1.690	-	1.690	-	-	-	-	Continuing	Continuing

Note

N/A

A. Mission Description and Budget Item Justification

Classified

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	1.361	1.654	1.710	-	1.710
Current President's Budget	1.361	1.654	1.690	-	1.690
Total Adjustments	0.000	0.000	-0.020	-	-0.020
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	-0.020	-	-0.020

Change Summary Explanation

Program is classified and exhibit will be provided under a separate cover.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0708012K / *Logistics Support Activities*	Project (Number/Name) LSA / *Logistics Support Activities*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
LSA: *Logistics Support Activities*	1.317	1.361	1.654	1.690	-	1.690	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Classified.

A. Mission Description and Budget Item Justification

Classified.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: LSA	1.361	1.654	1.690
Description: Classified. ***FY 2021 Plans:*** Classified. ***FY 2022 Plans:*** Classified. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** Classified.			
Accomplishments/Planned Programs Subtotals	1.361	1.654	1.690

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

Classified.

D. Acquisition Strategy

Classified.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0708012K / *Logistics Support Activities*	Project (Number/Name) LSA / *Logistics Support Activities*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Classified	Various	Classified : Classified	1.317	1.361	Oct 2019	1.654	Oct 2020	1.690	Oct 2021	-		1.690	Continuing	Continuing	-
		Subtotal	1.317	1.361		1.654		1.690		-		1.690	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	1.317	1.361		1.654		1.690		-		1.690	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0708012K / *Logistics Support Activities*	**Project (Number/Name)** LSA / *Logistics Support Activities*

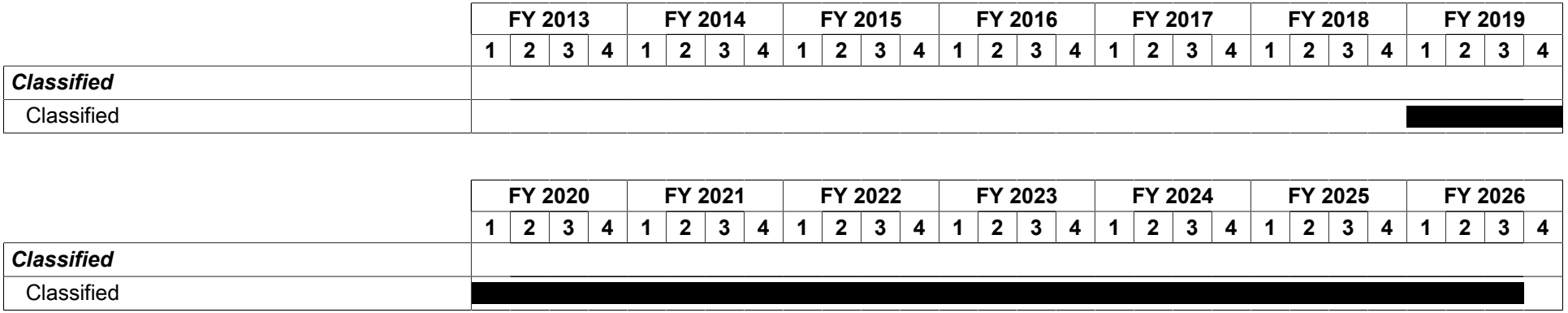


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 0708012K / *Logistics Support Activities*	**Project (Number/Name)** LSA / *Logistics Support Activities*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Classified				
Classified	1	2019	3	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 1203610K / *Teleport Program*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	47.290	5.542	3.239	0.000	-	0.000	-	-	-	-	Continuing	Continuing
NS01: *Teleport Generation 1/2*	47.290	1.042	1.240	0.000	-	0.000	-	-	-	-	Continuing	Continuing
NS03: *SATCOM Gateway*	0.000	4.500	1.999	0.000	-	0.000	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

Department of Defense (DoD) Teleport system is a satellite communications (SATCOM) gateway that links the deployed warfighter to the Global Information Grid. The DoD Teleport program has fielded system capabilities incrementally using a multi-generational approach with Generation 1 and 2 Full Deployment authorized by DoD Chief Information Officer on February 18, 2011. DoD Teleport Generation 3 consists of three phases; Phases 1 and 2 are in Production and Deployment while Phase 3 is in Engineering and Manufacturing Development. Each DoD Teleport investment increases the warfighter's ability to communicate with a world-wide, net-centric set of information capabilities, which is vital for the DoD to maintain a persistent presence among its adversaries.

Currently, the Teleport system operates as an upgrade of SATCOM capabilities at selected DoD SATCOM gateways. This system provides deployed warfighters with seamless worldwide multi-band SATCOM connectivity to the Defense Information System Network (DISN) Service Delivery Nodes and legacy tactical command, control, communications, computers, and intelligence systems. It also provides centralized integration capabilities, contingency capacity, and common interfaces to access the DISN.

DoD Teleport's goal is to provide secure, seamless, interoperable, and economical upgrades to DoD SATCOM Gateways and meet the growing throughput requirements of the deployed warfighter.

The primary beneficiaries of the DoD Teleport investment are the DoD Combatant Commanders, Military Departments, Defense Agencies, and the warfighter. DoD Teleport Generation 3 is designed to meet the growing demands of the warfighter through the execution of the following phases:

Phase 1: Gateway Advanced Extremely High Frequency [Extended Data Rate] terminals provides tactical users with a 350% bandwidth increase in survivable, antijam communications through all peacetime and combat operations by installing Navy Multiband Terminals (NMT) at select Teleport sites. In addition to enhanced throughput, the NMT maintains compatibility with legacy waveforms and current tactical terminals.

Phase 2: Gateway Wideband Global SATCOM X/Ka-band terminals provide enhanced Wideband Global System (WGS) X/Ka capability to warfighters worldwide by installing terminals from the Modernization of Enterprise Terminal (MET) program at DoD Teleport and other gateway sites. This gateway enhancement allows Teleport to replace end-of-life Defense Satellite Communications System (DSCS) terminals while remaining interoperable with tactical WGS X/Ka-band users. The MET enhancement provides a 300% Ka-band capacity increase and an 1100% X-band capacity increase to current enterprise terminal X/Ka capabilities. Additionally, it enables the DoD Teleport system to maintain operational availability consistent with Generation 2 requirements and reduce the overall life-cycle cost of X/Ka capabilities across the DoD.

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 7: *Operational Systems Development*	**R-1 Program Element (Number/Name)** PE 1203610K / *Teleport Program*

Phase 3: Mobile User Objective System (MUOS) to Legacy Ultra High Frequency (UHF) systems interoperability will provide interoperability between MUOS users and legacy UHF users by installing MUOS-to-Legacy UHF SATCOM Gateway Component (MLGC) suites of equipment at DoD Teleport sites. MUOS is the next generation DoD UHF SATCOM system that will provide the warfighter with modern worldwide mobile communication services, utilizing the Wideband Code Division Multiple Access waveform for use in the military UHF SATCOM band. MLGC suites will provide critical continuity and interoperability as DoD tactical satellite users transition from legacy waveforms and radios to the Joint Tactical Radio System.

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	5.542	3.239	1.273	-	1.273
Current President's Budget	5.542	3.239	0.000	-	0.000
Total Adjustments	0.000	0.000	-1.273	-	-1.273
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	-1.273	-	-1.273

Change Summary Explanation

The decrease of -$1.273 in FY 2022 is due to the end of Generation Three Phase Three MLGC/MVG (MUOS to Legacy Gateway Component/MUOS Voice Gateway) testing.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1203610K / *Teleport Program*	Project (Number/Name) NS01 / *Teleport Generation 1/2*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
NS01: *Teleport Generation 1/2*	47.290	1.042	1.240	0.000	-	0.000	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Teleport program will implement an integrated test approach that will combine the objectives from multiple testing disciplines (e.g., developmental test, operational test, interoperability, and information assurance) throughout the testing lifecycle to support needed system evaluations. The Teleport program executes its own test events to achieve this integrated approach, but will partner with each phase's respective program office generated test activities to leverage the data needed to satisfy Teleport program test objectives. An approach summary for Teleport Gen 1/2 follows:

Generation 1/2 Technology Refresh/Technology Insertion: Funding will be used to maintain the Joint Interoperability Certification of the DoD Teleport System as the system is upgraded and refreshed with new components.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Teleport Program	1.042	1.240	-
Description: Department of Defense (DoD) Teleport system is a satellite communications (SATCOM) gateway that links the deployed warfighter to the Department of Defense Information Network (DODIN). The Teleport program supports the warfighter with a world-wide, net-centric set of communication and information capabilities. ***FY 2021 Plans:*** Funding will be used to maintain the Joint Interoperability Certification of the DoD Teleport System as the system is upgraded with new components. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The decrease of -$1.240 from FY 2021 to FY 2022 is due to the end of G3P3 MLGC/MVG testing.			
Accomplishments/Planned Programs Subtotals	1.042	1.240	-

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• O&M, DW/ PE1203610K: *O&M, DW*	10.335	11.375	11.505	-	11.505	-	-	-	-	Continuing	Continuing
• Procurement, DW/ PE1203610K: *Procurement, DW*	22.324	26.655	31.814	-	31.814	-	-	-	-	Continuing	Continuing

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1203610K / *Teleport Program*	**Project (Number/Name)** NS01 / *Teleport Generation 1/2*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost

Remarks

D. Acquisition Strategy

The Teleport Program Office (TPO) uses the DoD preferred evolutionary acquisition approach to acquire Commercial off the Shelf (COTS) and modified COTS equipment when possible. The three TPO procuring agencies, Program Manager Defense Communications and Army Transmission Systems, the Space and Naval Warfare Systems Command, and Defense Information Technology Contracting Organization (DITCO) provide direct contracting support. Assistance from other Departments including Army, Navy, and Air Force is acquired via Military Interdepartmental Purchase Request for both organic and contracted support. The TPO maximizes the use of performance-based contracts and requires contractors to establish and manage specific earned value data to mitigate risk and monitor deviations from cost, schedule, and performance objectives. Performance is evaluated through post-award contract reviews, performance assessment during quarterly program reviews. The MLGC program will use various contract types to employ the vendor best suited to deliver the program's capabilities to the warfighter.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1203610K / *Teleport Program*	Project (Number/Name) NS01 / *Teleport Generation 1/2*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering Technical Support (Tech Refresh)	MIPR	CERDEC : APG	0.000	1.042	Oct 2019	-		-		-		-	Continuing	Continuing	Continuing
SATCOM, NATO, DISN, and Tactical Radio Tech Support Svcs	MIPR	ANSER : VARIOUS	0.125	-		-		-		-		-	0.000	0.125	0.125
		Subtotal	0.125	1.042		-		-		-		-	Continuing	Continuing	N/A

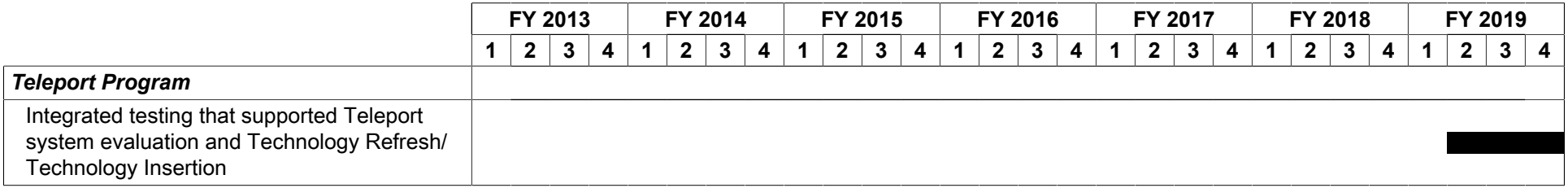
Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Testing Support Services (Tech Refesh)	MIPR	JITC : Ft. Huachuca	47.165	-		1.240	Nov 2020	-		-		-	Continuing	Continuing	-
		Subtotal	47.165	-		1.240		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	47.290	1.042		1.240		-		-		-	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1203610K / *Teleport Program*	**Project (Number/Name)** NS01 / *Teleport Generation 1/2*



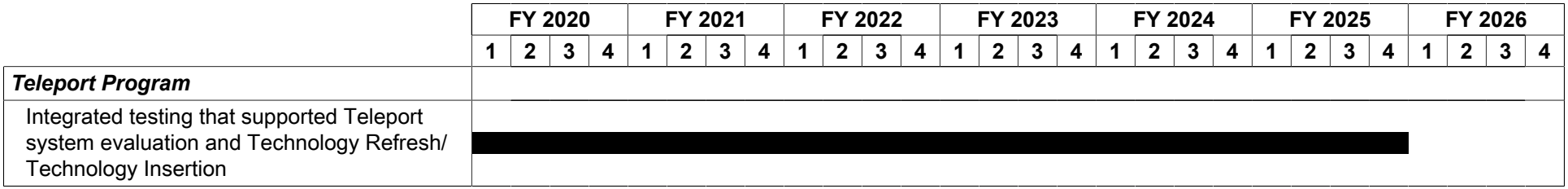


Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1203610K / *Teleport Program*	**Project (Number/Name)** NS01 / *Teleport Generation 1/2*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Teleport Program				
Integrated testing that supported Teleport system evaluation and Technology Refresh/ Technology Insertion	2	2019	4	2025

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1203610K / *Teleport Program*	Project (Number/Name) NS03 / *SATCOM Gateway*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
NS03: *SATCOM Gateway*	0.000	4.500	1.999	0.000	-	0.000	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The SATCOM Gateway is an enterprise system that will adhere to the Joint Information Environment (JIE) architecture, and support all DoD satellite communications requirements, to include Strategic (Presidential, SECDEF, SECSTATE, Chairman Joint Chiefs of Staff, Milestone Decision Authority (MDA)) and Tactical (Combatant Commanders/Services/Agencies (CC/S/A)) users over satellite trunks through the DoD Information Network (DODIN).

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: SATCOM Gateway	4.500	1.999	-
Description: The SATCOM Gateway is an enterprise system that adheres to the Joint Information Environment (JIE) architecture in support of SATCOM operations. The SATCOM Gateway system supports the warfighter to include strategic and tactical users by providing DoD satellite communication requirements over satellite trunks through the DoD Information Network (DODIN). ***FY 2021 Plans:*** Funding will be used to build out software research and development for Full Motion Video (FMV). ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The decrease of -$1.999 from FY 2021 to FY 2022 is due to completion of the MUOS terminal planning tool and data controller to support SATCOM operations.			
Accomplishments/Planned Programs Subtotals	4.500	1.999	-

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• O&M, DW/ PE1203610K: *O&M, DW*	7.651	7.999	7.956	-	7.956	-	-	-	-	Continuing	Continuing
• Procurement, DW/ PE1203610K: *Procurement, DW*	1.633	2.037	5.447	-	5.447	-	-	-	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 1203610K / *Teleport Program*	Project (Number/Name) NS03 / *SATCOM Gateway*	

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Engineering Technical Support (MUOS tool)	Various	TBD : TBD	-	4.500	Oct 2019	1.999	Oct 2020	-		-		-	Continuing	Continuing	-
		Subtotal	-	4.500		1.999		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	4.500		1.999		-		-		-	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1203610K / *Teleport Program*	**Project (Number/Name)** NS03 / *SATCOM Gateway*

	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
	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
SATCOM Gateway																												
Engineering, development, testing, and evaluation of a MUOS terminal planning tool and data controller supporting SATCOM operations.																												

Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 7	**R-1 Program Element (Number/Name)** PE 1203610K / *Teleport Program*	**Project (Number/Name)** NS03 / *SATCOM Gateway*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
SATCOM Gateway				
Engineering, development, testing, and evaluation of a MUOS terminal planning tool and data controller supporting SATCOM operations.	2	2020	4	2026

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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 8: *Software and Digital Technology Pilot Programs*	**R-1 Program Element (Number/Name)** PE 0604532K / *Joint Artificial Intelligence*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	186.639	-	186.639	-	-	-	-	Continuing	Continuing
JAIC: *JA1*	-	0.000	0.000	186.639	-	186.639	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The JAIC was established to preserve and expand our military advantage in support of the Department's 2018 National Defense Strategy (NDS). As a primarily executing body it will accelerate the delivery of Artificial Intelligence (AI) enabled capabilities, scale the Department-wide impact of AI, and synchronize Department of Defense (DoD) AI activities to expand Joint Force advantages. The JAIC mission is to accelerate the delivery of AI to achieve impact scaled across the DoD at relevant speed to transform the DoD and ensure the nation maintains a competitive advantage. JAIC capitalizes on Project Maven's efforts as the pathfinder AI initiative for the DoD to further critical AI architecture and prototyping to rapidly expand AI to other mission areas. As JAIC efforts prove relevant, they will expedite technology transition from the laboratory to operational use, and increase Joint Force capability. Most military data storage, utilization, and analytic tools and systems were designed pre-AI and require specialized integration to enable the insertion of algorithms into their software baseline. JAIC capabilities are commercial technology initiatives that insert commercial AI into existing programs of record.

JAIC will execute an initial sequence of cross-functional use cases to demonstrate value and create momentum, called National Mission Initiatives (NMI). NMIs will rapidly develop and deploy AI across the Joint Force for selected high-priority, pressing operational or business reform challenges. Additionally, JAIC will work closely with individual components to help identify, shape, and accelerate component-specific AI deployments. NMI efforts will include selecting commercial and academic partners for prototypes, and develop standardized processes with respect to data, testing and evaluation, and cybersecurity. JAIC will use lessons learned from these initial projects to establish new processes and standards that will be repeatable across additional projects and immediately relevant to the Joint Force. This will be done in collaboration with partners across technology companies, consulting firms, academia, government labs, Federally Funded Research and Development Centers (FFRDC), services, and international partners.

To support NDS, the JAIC will catalyze and develop AI capabilities to enhance readiness and lethality and ensure DoD maintains an advantage over adversaries. JAIC will spearhead this unique opportunity to expand the competitive space across all domains with AI. JAIC efforts will directly contribute to increased military readiness towards a more lethal Joint Force, it will strengthen alliances and attract new partners by focusing on global problems, and it will enable Departmental reform to increase performance and affordability. JAIC will cultivate workforce talent by recruiting, developing, and retaining high-quality personnel to enable the development and delivery of AI. This will bring critical skills into the department by drawing outside expertise, and leveraging small companies, start-ups, and universities. Implementing AI at a speed of relevance hinges on the ability to integrate AI better than our adversaries, and the JAIC will enable the Department to adapt AI into how it fights. JAIC will focus on speed of delivery, continuous adaptation, and frequent capability delivery sprints. To fully realize this potential, the JAIC will pioneer AI approaches across the full scale of the global enterprise in a manner that is jointly interoperable with allies, partners, military Services, and agencies. Specifically, JAIC will identify and implement new organizational approaches, establish key AI building blocks and standards, develop and attract AI talent, and introduce new operational models that will enable DoD to systematically take advantage of AI at enterprise scale. The JAIC will fulfill the National Security Strategy and NDS to ensure conventional overmatch through dual-use commercial technology and partnered DoD-developed AI. The JAIC will collaborate with non-governmental organizations, corporations, strategic influencers, nd partners and allies. JAIC will seize the initiative to lead the world in the development and adoption of transformative defense AI solutions that are safe, ethical, and secure. JAIC will spearhead this effort, engaging with the best minds in government, the private sector, academia, and international community.

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency					Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 8: *Software and Digital Technology Pilot Programs*		**R-1 Program Element (Number/Name)** PE 0604532K / *Joint Artificial Intelligence*			
B. Program Change Summary ($ in Millions)	**FY 2020**	**FY 2021**	**FY 2022 Base**	**FY 2022 OCO**	**FY 2022 Total**
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	186.639	-	186.639
Total Adjustments	0.000	0.000	186.639	-	186.639
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	186.639	-	186.639

Change Summary Explanation

The increase of +$186.639 in FY 2022 reflects a realigning of from O&M (+$72.724) and RDT&E BA7 (+$106.434) to the newly created BA 8: Software and Digital Technology for the Software Pilot Program. This also includes an increase of +$8.040 received for the COVID-19 for requirements to support the health of the Warfighter predictive analytics/forecasting platform; for use by the COCOMS NORAD, NORTHCOM (North American Aerospace Defense Command, and Northern Command). Increase is offset by a decrease of -$0.559 due to a technical adjustment.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 8	R-1 Program Element (Number/Name) PE 0604532K / *Joint Artificial Intelligence*	Project (Number/Name) JAIC / *JA1*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
JAIC: *JA1*	-	0.000	0.000	186.639	-	186.639	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The JAIC was established to preserve and expand our military advantage in support of the Department's 2018 National Defense Strategy. As a primarily executing body it will accelerate the delivery of Artificial Intelligence (AI) enabled capabilities, scale the Department-wide impact of AI, and synchronize DoD AI activities to expand Joint Force advantages. The JAIC mission is to accelerate the delivery of AI to achieve impact scaled across the DoD at relevant speed to transform the DoD and ensure the nation maintains a competitive advantage. JAIC capitalizes on Project Maven's efforts as the pathfinder AI initiative for the DoD to further critical AI architecture and prototyping to rapidly expand AI to other mission areas. As JAIC efforts prove relevant, they will expedite technology transition from the laboratory to operational use, and increase Joint Force capability. Most military data storage, utilization, and analytic tools and systems were designed pre-AI and require specialized integration ton enable the insertion of algorithms into their software baseline. JAIC capabilities are commercial technology initiatives that insert commercial AI into existing programs of record.

JAIC will execute an initial sequence of cross-functional use cases to demonstrate value and create momentum, called National Mission Initiatives (NMI). NMIs will apidly develop and deploy AI across the Joint Force for selected high-priority, pressing operational or business reform challenges. Additionally, JAIC will work closely with individual components to help identify, shape, and accelerate component-specific AI deployments. NMI efforts will include selecting commercial and academic partners for prototypes, and develop standardized processes with respect to data, testing and evaluation, and cybersecurity. JAIC will use lessons learned from these initial projects to establish new processes and standards that will be repeatable across additional projects and immediately relevant to the Joint Force. This will be done in collaboration with partners across technology companies, consulting firms, academia, government labs, Federally Funded Research and Development Centers (FFRDC), services, and international partners.

To support the National Defense Strategy (NDS), the JAIC will catalyze and develop AI capabilities to enhance readiness and lethality and ensure DoD maintains an advantage over adversaries. JAIC will spearhead this unique opportunity to expand the competitive space across all domains with AI. JAIC efforts will directly contribute to increased military readiness towards a more lethal Joint Force, it will strengthen alliances and attract new partners by focusing on global problems, and it will enable Departmental reform to increase performance and affordability. JAIC will cultivate workforce talent by recruiting, developing, and retaining high-quality personnel to enable the development and delivery of AI. This will bring critical skills into the department by drawing outside expertise, and leveraging small companies, start-ups, and universities. Implementing AI at a speed of relevance hinges on the ability to integrate AI better than our adversaries, and the JAIC will enable the Department to adapt AI into how it fights. JAIC will focus on speed of delivery, continuous adaptation, and frequent capability delivery sprints. To fully realize this potential, the JAIC will pioneer AI approaches across the full scale of the global enterprise in a manner that is jointly interoperable with allies, partners, military Services, and agencies. Specifically, JAIC will identify and implement new organizational approaches, establish key AI building blocks and standards, develop and attract AI talent, and introduce new operational models that will enable DoD to systematically take advantage of AI at enterprise scale. The JAIC will fulfill the National Security Strategy and NDS to ensure conventional overmatch through dual-use commercial technology and partnered DoD-developed AI. The JAIC will collaborate with non-governmental organizations, corporations, strategic influencers, and partners and allies. JAIC will seize the initiative to lead the world in the development and adoption of transformative defense AI solutions that are safe, ethical, and secure. JAIC will spearhead this effort, engaging with the best minds in government, the private sector, academia, and international community.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0604532K / *Joint Artificial Intelligence*	**Project (Number/Name)** JAIC / *JA1*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Joint Artificial Intelligence Center (JAIC)	-	-	186.639

Description: JAIC develops, tests, prototypes and demonstrates innovative AI, Machine Learning (ML), data infrastructure, and model/algorithm test and assessment capabilities to integrate AI capabilities across numerous domains and technical areas including maintenance and supply chain, personnel recovery, infrastructure assessment, geospatial monitoring during disaster, and cyber sense making. JAIC develops and evaluates integrated prototype technologies in realistic operating environments with DoD entities to assess the performance or cost reduction potential of applying such advanced technology to scale across multiple services. JAIC does this by aligning rapid prototype projects under NMIs and leverages existing commercial technology for DoD use, built upon a common architecture that enables the DoD to rapidly scale AI capability.

FY 2022 Plans:

FY 2021 O&M Plans: $72.724

In FY22, In order to lead the adoption and scaling of AI throughout the Department of Defense, the JAIC will continue to acquire highly technical expertise for Program Management; Data Management; Capability Delivery Development Teams; AI Test and Evaluation; AI Protect and Counter Intelligence Research and Analysis and JCF administrative and logical support. The JAIC will seek vendor services to advance systemic data stewardship practices in all AI related capability development, which will require vendors with technical experts in data engineering, and data science. The JAIC will also continue operation and sustainment efforts for the Joint Common Foundation. Funds Joint Common Foundation computing and cloud services in addition to enterprise AI tools that enable users to import data, build and test AI models, and deploy models into production environments.

FY 2021 RDT&E Plans: $106.434

In FY22, Joint Information Warfare formally Cyber Sensemaking/ JAIC will further support integration of AI/ML MISO solutions for effective understanding, messaging, and influencing within the changing information environment. The JAIC will also align resources to kick off new AI capability lines of effort in accordance with the direction of the DOD AI Executive Steering Group (ESG). The JAIC will continue development of AI/ML products ANMVIS, BlueVector, MADHAT, Cyber Data Framework, Analytic Support Officers (ASO) Ecosystem Concept, and Medifor.

The Threat Reduction and Protection formally the Humanitarian Assistance/Disaster Relief (HA/DR) will continue efforts building AI Capability in the areas of Damage Assessment, Full Motion Video, and Search and Rescue and continue development of Damage Assessment and Road Obstruction Product Line. JAIC will continue development efforts and work towards a Joint Common Foundation (JCF) Enterprise Environment and Full Operating Capability (FOC) by FY22.

In FY22, the Joint Warfighting Operations Initiative will continue to develop and begin to transition AI/ML products lines Target Development, Wargaming, Gargoyle, Precision Targeting, and The Assistant Secretary of the Air Force (Acquisition, Technology and Logistics) (SAF/AQ) to mission partners. The JAIC will also continue resourcing AI/ML products in the areas of Electromagnetic Spectrum Operations (EMSO) and Strategic Mobility in accordance with the direction of the DOD AI Executive Steering Group (ESG). In FY22, The Joint Warfighting Operations mission initiative will deliver the Terrestrial Reconnaissance

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0604532K / *Joint Artificial Intelligence*	**Project (Number/Name)** JAIC / *JA1*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
and Surveillance and sUAS product to partners for field-testing, complete field testing and deliver to Army G-Boss Program office and service program. Integrate Strategy Robot into ATO, Joint Staff J8 - User Interface for existing air-to-air Force Structure Planning Tool and Joint Staff J8 - All-Domain Force Structure Planning Tool. Project Smart Sensor - Full- onboard processing and navigation and transition to U.S. Air Force Special Operations Command Program Executive Office Fixed Wing (AFSCO PEO FW) and MQ-9 Reaper Drone (MQ-9) System Program Office (SPO). In FY22, The Warfighter Health mission initiative will work with the Defense Health Agency (DHA) to transition the initial rollout of Medical Imagery Analysis to Military medical diagnosis facilities. The JAIC will continue work in Medical Imaging, Suicide Intervention & Prevention, Point of Injury Decision Support, and Data Commons AI/ML products. In FY22, The JAIC's Business Process Transformation initiative will work with the DoD Comptroller's Advanced Analytics (ADVANA) Team, Data Insights Directorate, and Undersecretary Defense for Intelligence USD(I) and will begin to test and integrate GAMECHANGER with multiple user groups. The JAIC will also continue to development of Humanless Unmatched Transactions (HUnT), Acquisition Alert, MyNavy HR, and Army Talent Assignment Recommender and begin transition efforts to partners. FY 2022 RDT&E Plans: $7.481 Increased COVID-19 requirements for the health of the Warfighter resulted in the need for a predictive analytics/forecasting platform for use by the COCOMS (NNC, INDOPACOM) to provide predictive analytics associated with COVID planning and response. ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The increase of +$186.639 from FY 2021 to FY 2022 reflects a realigning of from O&M (+$72.724) and RDT&E BA7 (+$106.434) to the newly created BA 8: Software and Digital Technology for the Software Pilot Program. This also includes an increase of +$8.040 received for the COVID-19 for requirements to support the health of the Warfighter predictive analytics/forecasting platform; for use by the COCOMS NORAD, NORTHCOM (North American Aerospace Defense Command, and Northern Command). Increase is offset by a decrease of -$0.559 due to a technical adjustment.			
Accomplishments/Planned Programs Subtotals	-	-	186.639

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The JAIC acquisition, management, and contracting strategy follows guidance outlined in the DoD 5000 series directives, Federal Acquisition Regulation (FAR) and FAR supplement policies and procedures. Management uses project management tools and meetings to ensure delivery of stated capabilities and performance criteria.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 8	R-1 Program Element (Number/Name) PE 0604532K / *Joint Artificial Intelligence*	Project (Number/Name) JAIC / *JA1*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development	C/Various	TBD : TBD	-	-		-		186.639	Mar 2022	-		186.639	Continuing	Continuing	-
		Subtotal	-	-		-		186.639		-		186.639	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		0.000		186.639		-		186.639	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0604532K / *Joint Artificial Intelligence*	**Project (Number/Name)** JAIC / *JA1*

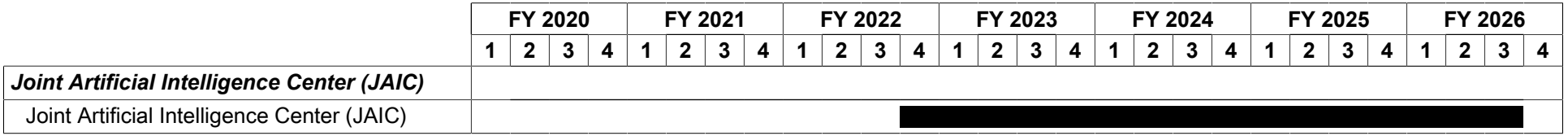

Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0604532K / *Joint Artificial Intelligence*	**Project (Number/Name)** JAIC / *JA1*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Joint Artificial Intelligence Center (JAIC)				
Joint Artificial Intelligence Center (JAIC)	4	2022	3	2026

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Defense Information Systems Agency	Date: May 2021
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 8: *Software and Digital Technology Pilot Programs*	**R-1 Program Element (Number/Name)** PE 0303150K *I Global Command and Control System Software and Digital Technology Pilot Programs*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	75.750	32.774	-	32.774	-	-	-	-	Continuing	Continuing
CC01: *Global Command*	0.000	0.000	75.750	32.774	-	32.774	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Global Command and Control System-Joint (GCCS-J) is the Joint C2 system of record and an essential component for successful implementation of the operational concepts of dominant maneuver, precision engagement, full-dimension protection, and focused logistics. It provides an integrated near real time picture of the battlespace to support joint and multinational operations on US and coalition networks.GCCS-J provides air, maritime, ground, space and cyber tracks for US, coalition, and enemy forces. It also provides applications for situational awareness, missile warning, intelligence, targeting, imagery exploitation, and applications for modeling chemical, biological, radiological, and nuclear (CBRN) hazard areas and effects. GCCS-J is used by key decision makers at the strategic national, strategic theater, and operational levels. Additionally, GCCS-J is used by all nine combatant commands (COCOMs) at sites around the world, supporting joint and coalition operations. The GCCS Family of Systems (FoS) (i.e. the military services) use components of GCCS-J to build their Service unique variants.

Beginning in FY 2021, the GCCS-J was approved and will be funded in the Software & Digital Technology Pilot Program under a new Budget Activity (“BA 8”) in existing Research, Development, Testing & Evaluation (RDT&E) appropriations. Approved pilot programs will have all funding realigned to discrete Program Elements in BA 8 under each Components RDT&E appropriation. This new pilot program was established in response to Section 872 of the National Defense Authorizations Act (NDAA) for FY 2018 (P.L. 115-91) in an effort to “streamline DoD software development and acquisition regulations.”.

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	0.000	86.750	37.928	-	37.928
Current President's Budget	0.000	75.750	32.774	-	32.774
Total Adjustments	0.000	-11.000	-5.154	-	-5.154
• Congressional General Reductions	-	-11.000			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustment	-	-	-5.154	-	-5.154

Change Summary Explanation

The decrease of -$5.154 in FY 2022 is the result of the re-phasing that will decrease the GCCS-J support to Joint All-Domain Command and Control (JADC2) efforts.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System Software and Digital Technology Pilot Programs*	**Project (Number/Name)** CC01 / *Global Command*	

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
CC01: *Global Command*	0.000	0.000	75.750	32.774	-	32.774	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Global Command and Control System-Joint (GCCS-J) is the Joint C2 system of record and an essential component for successful implementation of the operational concepts of dominant maneuver, precision engagement, full-dimension protection, and focused logistics. It provides an integrated near real time picture of the battlespace to support joint and multinational operations on US and coalition networks.GCCS-J provides air, maritime, ground, space and cyber tracks for US, coalition, and enemy forces. It also provides applications for situational awareness, missile warning, intelligence, targeting, imagery exploitation, and applications for modeling chemical, biological, radiological, and nuclear (CBRN) hazard areas and effects. GCCS-J is used by key decision makers at the strategic national, strategic theater, and operational levels. Additionally, GCCS-J is used by all nine combatant commands (COCOMs) at sites around the world, supporting joint and coalition operations. The GCCS Family of Systems (FoS) (i.e. the military services) use components of GCCS-J to build their Service unique variants.

Beginning in FY 2021, the GCCS-J was approved and will be funded in the Software & Digital Technology Pilot Program under a new Budget Activity ("BA 8") in existing Research, Development, Testing & Evaluation (RDT&E) appropriations. Approved pilot programs will have all funding realigned to discrete Program Elements in BA 8 under each Components RDT&E appropriation. This new pilot program was established in response to Section 872 of the National Defense Authorizations Act (NDAA) for FY 2018 (P.L. 115-91) in an effort to "streamline DoD software development and acquisition regulations.".

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
Title: Development and Strategic Planning	-	75.750	32.774
Description: Develop, publish, and execute a GCCS-J migration and modernization strategy that achieves the following GCCS-J Modernization objectives in accordance with Joint C2 Mission operational priorities and the DoD's JC2 Reference Architecture: • Continue to decompose applicable existing applications into services • Limit local deployment and move as much to the enterprise as possible • Continue to expose data and scale services to support an enterprise implementation • Continue to evolve more economical hardware and software architecture without impact to the operational user or Family of Systems (FoS)/interface partners • Reduce overall sustainment cost through use of more cost effective and appropriate Commercial-off-the-Shelf (COTS) and Hardware (HW) products • Evolve to use of agile development practices • Consolidation of clients and tools			

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System Software and Digital Technology Pilot Programs*	**Project (Number/Name)** CC01 / *Global Command*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
FY 2021 Plans: Cyber security analysis is an ongoing aspect of the software lifecycle required to keep the system securely deployed. Continue to maintain the synchronization across DOD of GCCS-J, joint interfaces and the GCCS Family of Systems; continue to deliver capabilities as prioritized by the warfighter; and meet emerging operational priorities. Continue the development of the GCCS-JE Framework to meet the programs Initial Operational Capability. In addition we will execute a development, integration and sustainment contract that will develop the functional capability that will be integrated in the framework design and sustain the capability as it is operationally deployed to the warfighter. ***FY 2022 Plans:*** FY 2022 O&M Plans: $21.375 Continue to support the Operational Community by incrementally developing, testing, and fielding additional GCCS-J 6.0.x and GCCS-J 6.1.x capabilities, as identified and prioritized by the Joint Staff (JS) and User community. Also, continue to address missile warning requirements as defined in the Global Threat Characterization Assessment (GTCA); complete the implementation of the full set of Link 16 requirements in the Link Processing Capability (LPC) application; and address additional high priority items from the Joint Staff "Top 10" list of requirements. Continue to support / fund GCCS-J certification and accreditation activities to include GCCS-J v6.0 reaccreditation; GCCS-J v6.1 accreditation (new); and GCCS-J Enterprise Baseline accreditation (new). Additionally, continue to fund software licenses for the Joint Staff critical sites, as required. FY 2022 RDT&E Plans: $11.399 Continue the GCCS-J modernization activities that began in FY21 to include: developing, testing, and deploying additional GCCS-J Web client capabilities; support the Joint All Domain Command and Control (JADC2) campaign and series of modernization experiments designed to “increase interoperability, situational awareness and lethality that will enable any shooter, with any sensor, through any C2 node, in near-real time to employ joint and mission partner effects”; continue IPv6 compliance work to achieve DoD’s IPv6 compliance objective; and develop and deploy GCCS-J web client capabilities and backend services to a SIPR cloud environment (e.g. Amazon Web Services, and Microsoft AZURE). ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The decrease of -$42.976 from FY 2021 to FY 2022 is due to the required payback of funds provided via the 2016 GCCS-J Recapitalization Business Case Analysis to modernize GCCS-J and move to an enterprise deployment. The existing and unmitigated program risk of no modernization funding in FY 2022 results in ceasing current modernization efforts in FY			

Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System Software and Digital Technology Pilot Programs*	**Project (Number/Name)** CC01 / *Global Command*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021	FY 2022
2020-2021, as there would be insufficient funding starting in FY 2022 and out to host and maintain any enterprise capability (e.g., GCCS-J web application).			
Accomplishments/Planned Programs Subtotals	-	75.750	32.774

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• PE 0303150K: *Operation & Maintenance, Defense-Wide*	0.000	27.426	26.829	-	26.829	-	-	-	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

Use of performance-based contract awards is maximized while use of Time and Material contracts is minimized to those providing programmatic support versus software development, integration, or testing. All development, integration, and migration efforts within the portfolio are primarily supported through Cost Reimbursable Task Orders issued under competitively awarded contracts. Acquisition Strategies are structured to retain contractors capable of satisfying cost, schedule, and performance objectives. Contract awards incorporate provisions requiring contractors to establish and manage specific earned value data. This strategy mitigates risk by requiring monthly Contract Performance Reviews (CPRs) and utilizing award fee contracts where appropriate to incentivize performance. GCCS-J applies formal acquisition rigor to include reporting requirements, as appropriate, by acquisition program designation.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System Software and Digital Technology Pilot Programs*	**Project (Number/Name)** CC01 / *Global Command*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development	C/CPFF	NMGS: GCCS-J Sustainment : Reston, VA	-	-		38.400	Dec 2020	18.993	Dec 2021	-		18.993	Continuing	Continuing	-
Product Development	C/CPFF	C2 Systems Engineering : TBD	-	-		4.200	Dec 2021	1.944	Feb 2022	-		1.944	Continuing	Continuing	-
Product Development	C/CPFF	GCCS-J Development : TBD	-	-		16.575	Jan 2021	-		-		-	Continuing	Continuing	-
Product Development	C/FFP	Configuration Management : Montgomery	-	-		1.000	Oct 2020	1.040	Oct 2021	-		1.040	Continuing	Continuing	-
Product Development	C/FFP	Milcloud Hosting : TBD	-	-		3.000	Jan 2021	-		-		-	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance GEMFIRE : TBD	-	-		1.214	Apr 2021	-		-		-	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance: VMWare : TBD	-	-		0.150	Apr 2021	0.148	Apr 2022	-		0.148	Continuing	Continuing	-
Product Development	C/FFP	Software Maitenance: Redhat : TBD	-	-		0.487	Dec 2020	0.565	Dec 2021	-		0.565	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance Sybase : TBD	-	-		0.652	Sep 2021	0.663	Sep 2022	-		0.663	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance : TBD	-	-		2.500	Jan 2021	-		-		-	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance: Oracle WebLogic : TBD	-	-		-		0.806	Jan 2022	-		0.806	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance: Oracle JAVA JELA : TBD	-	-		-		0.059	Sep 2022	-		0.059	Continuing	Continuing	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System Software and Digital Technology Pilot Programs*	**Project (Number/Name)** CC01 / *Global Command*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development	C/FFP	Software Maintenance: Microfocus : TBD	-	-		-		0.084	Mar 2022	-		0.084	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance: ForgeRock : TBD	-	-		-		0.048	May 2022	-		0.048	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance: Microsoft JELA : TBD	-	-		-		0.031	Nov 2021	-		0.031	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance: VEEAM : TBD	-	-		-		0.016	Mar 2022	-		0.016	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance: Fortify : TBD	-	-		-		0.088	Dec 2021	-		0.088	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance: JIRA : TBD	-	-		-		0.039	Dec 2021	-		0.039	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance: Crunchy PostGresSQL : TBD	-	-		-		0.097	Jul 2022	-		0.097	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance: Risk Radar : TBD	-	-		-		0.018	Jul 2022	-		0.018	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance: NetApp : TBD	-	-		-		0.230	Jul 2022	-		0.230	Continuing	Continuing	-
Product Development	C/FFP	Software Maintenance: Solarwinds and Flexera (CC) : TBD	-	-		-		0.006	Jun 2022	-		0.006	Continuing	Continuing	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System Software and Digital Technology Pilot Programs*	**Project (Number/Name)** CC01 / *Global Command*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development	C/FFP	HW Maintenance: CISCO JELA : TBD	-	-		-		0.035	Jun 2022	-		0.035	Continuing	Continuing	-
Product Development	C/FFP	HW Maintenance: Sun : TBD	-	-		-		0.414	Feb 2022	-		0.414	Continuing	Continuing	-
		Subtotal	-	-		68.178		25.324		-		25.324	Continuing	Continuing	N/A

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Support Cost	C/FFP	TBD : TBD	-	-		1.300	May 2021	-		-		-	Continuing	Continuing	-
Support: SD Program Management Support	C/FFP	Strategic Alliance Business Group : Ft Meade	-	-		-		0.920	Aug 2022	-		0.920	Continuing	Continuing	-
Support: GM&A (Travel, Training, Laptops, Credit Card, etc.)	C/FFP	Various : Ft Meade	-	-		-		0.495	Oct 2021	-		0.495	Continuing	Continuing	-
Support: Mobility PDC - EWMB97	MIPR	DISA : Ft Meade	-	-		-		0.057	Oct 2021	-		0.057	Continuing	Continuing	-
Support: Naval Information Warfare Center (NIWC) Atlantic	MIPR	NIWC : Various	-	-		-		-		-		-	Continuing	Continuing	-
		Subtotal	-	-		1.300		1.472		-		1.472	Continuing	Continuing	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test & Evaluation	MIPR	JITC : Various	-	-		2.500	Oct 2020	0.218	Oct 2021	-		0.218	Continuing	Continuing	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System Software and Digital Technology Pilot Programs*	**Project (Number/Name)** CC01 / *Global Command*	

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Test & Evaluation	MIPR	DAA : STRATCOM:Various	-	-		0.672	Oct 2020	0.896	Oct 2021	-		0.896	Continuing	Continuing	-
Test & Evaluation	MIPR	RME : Variuos	-	-		2.500	Oct 2020	0.888	Oct 2021	-		0.888	Continuing	Continuing	-
Test & Evaluation	MIPR	DISA Circuit: PDC WHPP : Ft Meade	-	-		-		0.057	Oct 2021	-		0.057	Continuing	Continuing	-
Test & Evaluation	MIPR	Telecommunication Services: CDES FAA : TBD	-	-		-		0.081	Oct 2021	-		0.081	Continuing	Continuing	-
Test & Evaluation	MIPR	C2 Test and Evaluation - NEXTGEN : Various	-	-		-		2.985	Aug 2022	-		2.985	Continuing	Continuing	-
Test & Evaluation	MIPR	SD CyberSecurity Support - U.S. Army Combat Capabilities Development Command Data & Analysis Center : Various	-	-		-		0.557	Aug 2022	-		0.557	Continuing	Continuing	-
Test & Evaluation	MIPR	AIR FORCE RESEARCH LAB/ RIFB (AFRL) : Various	-	-		-		0.291	Oct 2021	-		0.291	Continuing	Continuing	-
Test & Evaluation	MIPR	FAA Feed, FAA NAS Defense Programs : Various	-	-		-		0.005	Oct 2021	-		0.005	Continuing	Continuing	-
		Subtotal	-	-		5.672		5.978		-		5.978	Continuing	Continuing	N/A

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Services	FFRDC	MITRE : Various	-	-		0.600	Oct 2020	-		-		-	Continuing	Continuing	-

Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency			Date: May 2021
Appropriation/Budget Activity 0400 / 8	R-1 Program Element (Number/Name) PE 0303150K / *Global Command and Control System Software and Digital Technology Pilot Programs*	Project (Number/Name) CC01 / *Global Command*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2020 Cost	FY 2020 Award Date	FY 2021 Cost	FY 2021 Award Date	FY 2022 Base Cost	FY 2022 Base Award Date	FY 2022 OCO Cost	FY 2022 OCO Award Date	FY 2022 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Services	FFRDC	Institute for Defense Analyses (IDA) : Various	-	-		-		-		-		-	Continuing	Continuing	-
		Subtotal	-	-		0.600		-		-		-	Continuing	Continuing	N/A

	Prior Years	FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	-	-		75.750		32.774		-		32.774	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System Software and Digital Technology Pilot Programs*	**Project (Number/Name)** CC01 / *Global Command*

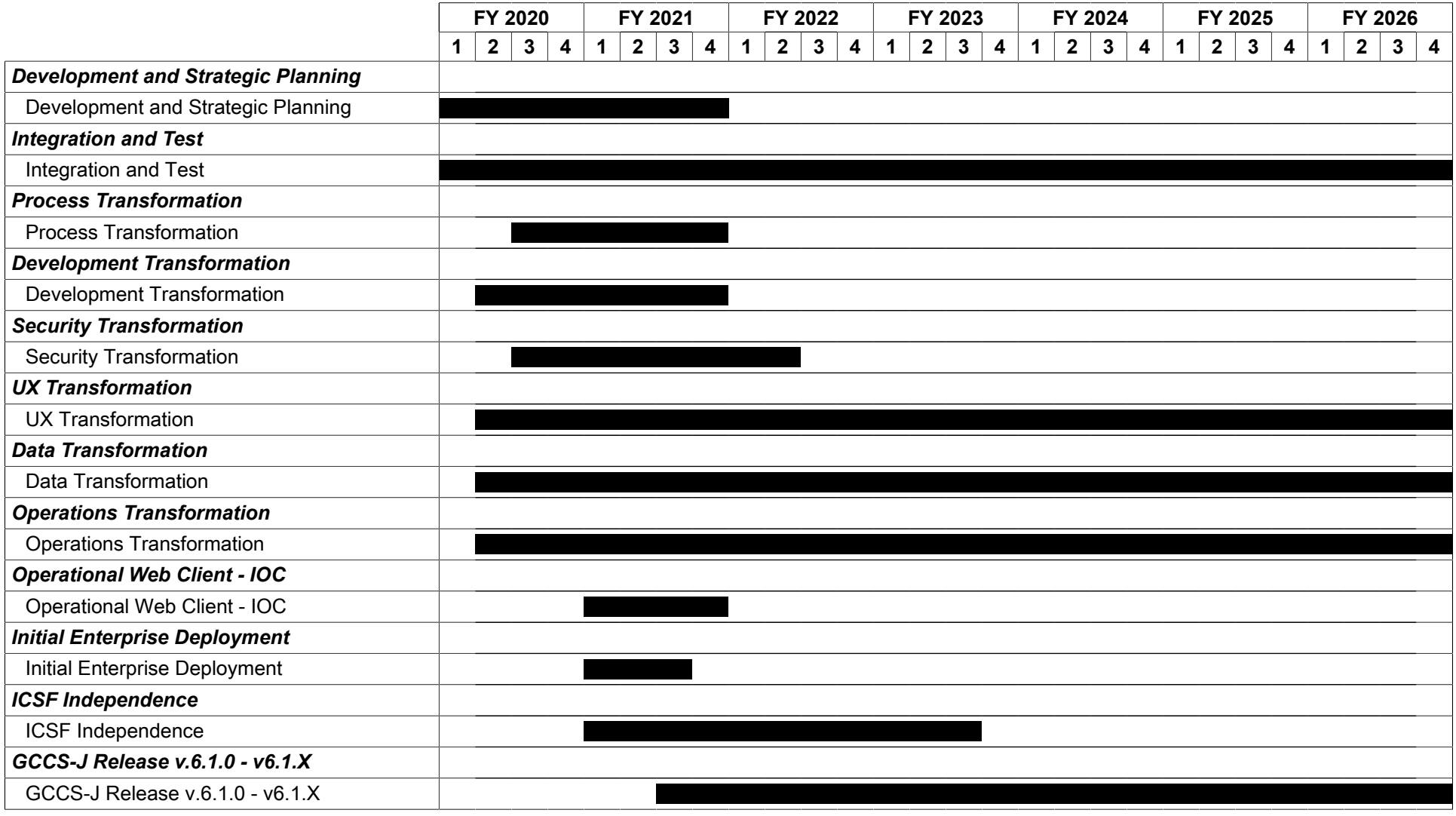

Exhibit R-4, RDT&E Schedule Profile: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System Software and Digital Technology Pilot Programs*	**Project (Number/Name)** CC01 / *Global Command*

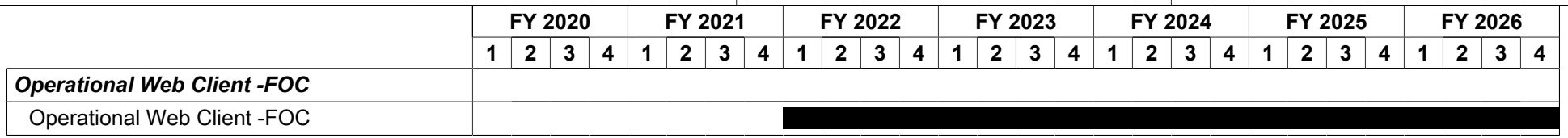

Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System Software and Digital Technology Pilot Programs*	**Project (Number/Name)** CC01 / *Global Command*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Development and Strategic Planning				
Development and Strategic Planning	1	2020	4	2021
Integration and Test				
Integration and Test	1	2020	4	2026
Process Transformation				
Process Transformation	3	2020	4	2021
Development Transformation				
Development Transformation	2	2020	4	2021
Security Transformation				
Security Transformation	3	2020	2	2022
UX Transformation				
UX Transformation	2	2020	4	2026
Data Transformation				
Data Transformation	2	2020	4	2026
Operations Transformation				
Operations Transformation	2	2020	4	2026
Operational Web Client - IOC				
Operational Web Client - IOC	1	2021	4	2021
Initial Enterprise Deployment				
Initial Enterprise Deployment	1	2021	3	2021
ICSF Independence				

Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Information Systems Agency		Date: May 2021
Appropriation/Budget Activity 0400 / 8	**R-1 Program Element (Number/Name)** PE 0303150K / *Global Command and Control System Software and Digital Technology Pilot Programs*	**Project (Number/Name)** CC01 / *Global Command*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
ICSF Independence	1	2021	3	2023
GCCS-J Release v.6.1.0 - v6.1.X				
GCCS-J Release v.6.1.0 - v6.1.X	3	2021	4	2026
Operational Web Client -FOC				
Operational Web Client -FOC	1	2022	4	2026

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