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

Appropriation/Budget Activity	R-1 Program Element (Number/Name)											
0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	PE 0303140K / <i>Information Systems Security Program</i>											
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: <i>Information Systems Security Program</i>	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.

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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)	1.337	-	-
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.			
Title: Cyber Innovation and Technology	1.179	0.464	0.459
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:			

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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

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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.				
<p>Title: Secure Application Development (DevSecOps) Program</p> <p>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.</p> <p>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.</p> <p>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.</p>		5.400	5.996	-
<p>Title: PKI/Software Defined Enterprise (SDE)</p> <p>Description: Identify, develop and enforce the adoption of software defined technologies to modernize service delivery and cyber operations.</p> <p>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.</p> <p>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.</p>		0.000	-	1.876
<p>Title: License and Support</p> <p>Description: ESS will perform proof of concept research for new endpoint security capabilities.</p> <p>FY 2022 Plans: Support licenses and engineering support of proof of concept capabilities for endpoint security.</p> <p>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.</p>		0.000	-	1.319
Accomplishments/Planned Programs Subtotals		39.798	8.922	5.707

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

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2022</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u>		
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>	
• 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

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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
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Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
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	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Defense Information Systems Agency												Date: May 2021			
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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
Subtotal			42.262	39.798		8.922		5.707		-		5.707	Continuing	Continuing	N/A
Project Cost Totals			42.262	39.798		8.922		5.707		-		5.707	Continuing	Continuing	N/A

Remarks

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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	

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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 / <i>Information Systems Security Program</i>	Project (Number/Name) IA3 / <i>Information Systems Security Program</i>
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	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
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																												

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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 / <i>Information Systems Security Program</i>	Project (Number/Name) IA3 / <i>Information Systems Security Program</i>

Schedule Details

Events by Sub Project	Start		End	
	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