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

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 8: Software and Digital Technology Pilot Programs</i>	R-1 Program Element (Number/Name) PE 0608197V / <i>National Background Investigation Services - Software Pilot Program</i>
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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	109.676	123.570	-	123.570	-	-	-	-	Continuing	Continuing
000: <i>National Background Investigation Services - Software Pilot Program</i>	0.000	0.000	109.676	123.570	-	123.570	-	-	-	-	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Defense Counterintelligence and Security Agency (DCSA) acquires, develops, and deploys software to support the development of a modernized Federal Government background investigations information technology (IT) system(s) to replace the current OPM legacy IT systems and provide a highly secured infrastructure. DoD assumed modernization efforts beginning in FY 2017, as decided by the Interagency Deputies Committee and the Office of Management and Budget (OMB). Funds support the development, sustainment, technical refresh of hardware and software, Cloud migration, and program management costs to develop and field a modernized Federal Investigation System. This modernized data architecture will leverage and extend the existing secure Information Technology capabilities inherent to DoD infrastructure to the federal-wide background investigation processes and data archives. This approach will provide essential security information, protect the identities, lives, and livelihoods of the BI applicants and the family members and associates identified as part of BI records. The aim is to avert or eliminate the continuous and dynamic threat of identity theft, financial espionage and other attacks on this personal information, while providing a secure basis for background investigations necessary to Federal and DoD operations.

Using proven data architecture and prioritizing security, DCSA will leverage critical and inherent information technology (IT) security capabilities; identify means and methods to efficiently and securely access digital services; enhance systems necessary to operate the background investigation processes and associated vast reservoirs of data and interfaces; provide Government-wide tools to assist agencies with workforce management; and, develop and provide investigative products that comply with the new, Federal Investigations Standards and Workforce 2.0. Resources will be used to implement and sustain agency network upgrades and security software maintenance to ensure a stronger, more reliable, and better protected network architecture for conducting background investigations. Costs include program management activities, payroll for security specialists, engineers, data architects, and business process management activities to develop, test, and deploy the new capability. As capabilities are fielded NBIS and DCSA will provide system maintenance, security licenses and operational support to the system and users worldwide.

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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	121.676	123.570	-	123.570
Current President's Budget	0.000	109.676	123.570	-	123.570
Total Adjustments	0.000	-12.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-12.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

The NBIS will provide a secure end-to-end IT architecture for USG Personnel Vetting Enterprise. The increase from FY2021 provides investigative, adjudicative and continuous vetting capabilities consistent with emerging Trusted Workforce 2.0 requirements. Fielding phased NBIS-based capabilities will reduce and then eliminate the inefficient and more costly manual processes by employing state of the art workflow systems and automated record checking. NBIS eliminates security vulnerabilities and incorporates enhanced security architecture and processes. This allows NBIS to integrate deferred capabilities due to the FY21 reduction into the four releases scheduled in FY2022. The DoD and Federal customers have identified requirements for Mirador migration and integration, alert management, identity validation, case management for levels 1-3, automated records check of data sources, predictive analytics, and automated decision tools. This increase facilitates accomplishing Background Investigations Initial Operating Capability in late 3QFY22.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Defense Counterintelligence and Security Agency										Date: May 2021		
Appropriation/Budget Activity 0400 / 8					R-1 Program Element (Number/Name) PE 0608197V / National Background Investigation Services - Software Pilot Program				Project (Number/Name) 000 / National Background Investigation Services - Software Pilot 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
000: National Background Investigation Services - Software Pilot Program	0.000	0.000	109.676	123.570	-	123.570	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Defense Counterintelligence and Security Agency acquires, develops, and deploys software and manages digital talent. The National Background Investigation Services (NBIS) will be used in support of the government-wide background investigation process; replacing the OPM's case management legacy systems that were breached in 2015. The NBIS enhances security, meets new policy requirements, reduces the backlog of pending cases, and realizes cost avoidance as legacy systems are retired. The system establishes and streamlines the requirements intake (software factory model), implements the DevSecOps pipeline, standardizes test processes, automates unit component, and integration testing, implements cyber processes to achieve continuous ATO, consolidates help desk activities, and enhances monitoring capabilities.

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

	FY 2020	FY 2021	FY 2022
Title: Software Pilot Program	-	109.676	123.570
<p>Description: The Defense Counterintelligence and Security Agency acquires, develops, and deploys software and manages digital talent. The National Background Investigation Services (NBIS) will be used in support of government-wide background investigation process; replacing the OPM's legacy systems that were breached in 2015. The objectives of NBIS enhances security, meets new policy requirements, reduces the backlog of pending cases, and realizes cost avoidance as legacy systems are retired. The system establishes and streamlines the requirements intake (software factory model), implements the DevSecOps pipeline, standardizes test processes, automates unit component, and integration testing, implements cyber processes to achieve continuous ATO, consolidates help desk activities, and enhances monitoring capabilities.</p>			
<p>FY 2021 Plans: FY 2021 O&M Plans: \$83.176 NBIS will continue to provide support functions for DMDC capabilities that are running in the DISA Data Centers along with the COOP to ensure continuous operations in event of system failure. NBIS will leverage programmatic, operations and support contracts to provide Program Control, Financial and Budget support as well as the Operations functions to support the Cloud environment and transition of existing and new services into the Gov Cloud environments. NBIS will provide travel, non-centralized training, credit card, supplies, new laptops, Joint Enterprise Licensing Agreement (JELA) costs, and common licensing costs in support of running a PEO and Program Office. Finally, in FY2021 NBIS will pay any residual moving costs required for the</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
<p>transition from the DISA campus to a DCSA facility. Additionally, under Budget Authority (BA) 8, the previous BA4 funds will be capitalized to offset the shortfalls in the previous BA7 funds to continue development of the evolving Investigation Services.</p> <p>FY 2021 RDT&E Plans: \$38.500 DoD will continue to develop, enhance and improve the capabilities. As part of an Agile development process, the National Background Investigation System (NBIS) will deploy additional releases in FY21 to improve automation of the background investigation process, improve analytics to address insider threat analysis, improve continuous evaluation capabilities, and develop capabilities to meet additional Federal Agency requirements (e.g., Trusted Workforce 2.0). The system will continue to defend against cyber-attacks and improve defensibility by meeting new and evolving threats. Specifically, NBIS will continue to support Investigation Management (IM) Development for automation, new models, rules engines, and algorithms for optimization of assignments (i.e., continuous development); continue evolving the automation of IT infrastructure and DevSecOps tools and processes; implement Security Enterprise Architecture and Data Services to develop the capability to re-use data and analytics across multiple security missions, all while, simplifying system security and user access; supporting business transformation and late-derived requirements, technology change management, and Tier support for the NBIS Customers; identifying, developing, and testing multiple prototype efforts; and continuing to evolve and execute the adjusted implementation strategy based on lessons learned from prototype efforts and results of independent assessments.</p> <p>FY 2022 Plans: FY 2022 O&M Plans: \$57,767 NBIS will continue to support DMDC capabilities that are running in the DISA Data Centers used by the NBIS and legacy services along with the COOP function. The PEO NBIS will continue to fund programmatic and operations and support contracts to provide Program Control, Financial and Budget support as well as the Operations functions to support the Cloud environment and transition of existing and new services into the GovCloud platform. NBIS will fund travel, non-centralized training, credit card, supplies, new laptops, Joint Enterprise Licensing Agreement (JELA) costs, and common licensing costs in support of running a PEO and Program Office.</p> <p>FY2022 RDT&E Plans: \$65,803 The NBIS Investigations Management services will be supporting investigations and adjudications while additional development is being performed to optimize workflows, implement customer required enhancements, and refine existing analytics and develop additional analytics to meet customer requirements. Processes and services will be developed to safely, securely, and completely transfer completed investigation and adjudication data from the legacy systems into the secure NBIS data repositories. Development will continue for the transfer of Fingerprint operations from legacy services and data repositories into the Gov</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2020	FY 2021	FY 2022
<p>Cloud environments data repositories and the on-boarding of Data Sources will continue. NBIS will continue work on the multi-classification environment to place NBIS services on the main DoD networks while also supporting the Federal workforce.</p> <p><i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> The NBIS will provide a secure end-to-end IT architecture for USG Personnel Vetting Enterprise. The increase from FY2021 provides investigative, adjudicative and continuous vetting capabilities consistent with emerging Trusted Workforce 2.0 requirements. Fielding phased NBIS-based capabilities will reduce and then eliminate the inefficient and more costly manual processes by employing state of the art workflow systems and automated record checking. NBIS eliminates security vulnerabilities and incorporates enhanced security architecture and processes.</p>				
Accomplishments/Planned Programs Subtotals		-	109.676	123.570
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
N/A				

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

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Product Development (\$ 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			
Key Capability Development	TBD	TBD : TBD	-	-		60.596		59.037		-		59.037	Continuing	Continuing	-
Testing & Cyber Assessment	MIPR	DISA : JITC	-	-		5.873		5.887		-		5.887	Continuing	Continuing	-
Infrastructure	MIPR	TBD : TBD	-	-		25.566		30.592		-		30.592	Continuing	Continuing	-
Mission Support	TBD	TBD : TBD	-	-		9.082		17.669		-		17.669	Continuing	Continuing	-
Program Management Support	TBD	TBD : TBD	-	-		8.559		10.385		-		10.385	Continuing	Continuing	-
Subtotal			-	-		109.676		123.570		-		123.570	Continuing	Continuing	N/A

Remarks
 The Defense Counterintelligence and Security Agency (DCSA) acquires, develops, and deploys software to support the agile development of a modernized Federal Government background investigations information technology (IT) system(s) to replace the legacy OPM background investigative legacy IT systems, and provide a highly secured infrastructure. DoD assumed modernization efforts beginning in FY 2017, as decided by the Interagency Deputies Committee and the Office of Management and Budget (OMB). These Funds support the DevSecOps development, sustainment, technical refresh of hardware and software, Cloud migration, and program management costs to develop and field a modernized digital Federal Investigation System (FIS). This modernized data architecture leverages and extends the existing secure cloud-based Information Technology capabilities inherent to DoD infrastructure for the FIS enterprise service to the other Federal Agencies for their federal-wide background investigation processes and data archive purposes. This approach will securely provide essential security information and protect the identities, lives, and livelihoods of the BI applicants, their family members, and associates who are identified as part of BI records. The aim is to avert the continuous and dynamic threat of identity theft, financial espionage and other attacks on personal information, while providing a secure basis for background investigations necessary to Federal and DoD operations.

	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	-	-	109.676	123.570	-	123.570	Continuing	Continuing	N/A

Remarks

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Defense Counterintelligence and Security Agency **Date:** May 2021

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Key Capability Development				
Key Capability Development	4	2021	4	2023
Testing & Cyber Assessment				
Testing & Cyber Assessment	4	2021	3	2023
Infrastructure				
Infrastructure	4	2021	4	2023
Mission Support				
Mission Support	4	2021	4	2023
Program Management Support				
Program Management Support	4	2021	4	2023
Program Support				
Program Management Support	2	2022	4	2024
Capability Development				
Key Capability Development	3	2022	3	2025
Cyber Assessment & testing				
Cyber Assessment & testing	2	2022	3	2024
Infrastructure support				
Infrastructure support	3	2022	3	2025
Support Mission				
Support Mission	2	2022	4	2024