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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Defense Information Systems Agency										Date: March 2019		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
0400: Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development					PE 0303430K I Federal Investigative Services Information Technology							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	75.000	41.743	55.400	44.001	-	44.001	14.500	9.801	9.906	10.094	Continuing	Continuing
KA1: Federal Investigative Services Information Technology	75.000	41.743	55.400	44.001	-	44.001	14.500	9.801	9.906	10.094	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 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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	50.000	39.400	9.556	-	9.556
Current President's Budget	41.743	55.400	44.001	-	44.001
Total Adjustments	-8.257	16.000	34.445	-	34.445
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-5.000	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	16.000			
• SBIR/STTR Transfer	-1.479	-			
• Reprogrammings	-	-	21.000	-	21.000
• Adjustment	-1.778	-	13.445	-	13.445

Change Summary Explanation

Decrease of -\$8.257 in FY 2018 is due to congressional directed reduction of -\$5.000, transfer of funding to Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs of -\$1.479, and reduction of -\$1.778 due a delay in Investigation Management (IM) correcting the investment profile for execution.

Increase of +16.000 in FY 2019 is due to reprogramming funds from Operations and Maintenance (O&M) to Research, Development, Testing and Evaluation (RDT&E) to fund Defense Manpower Data Center (DMDC) capabilities that are part of a larger development effort.

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Increase of +\$34.445 in FY 2020 is to develop built-in sustainment features and advance metrics, and enhance the secure data warehouse; includes oversight and management product work, specifies the initial hardware, provides requirements for development, provides support for requirement accomplishment, coordination, data protection, conduct testing, and after completion to retain all responsibility of application enhancements (+\$13.445). Also, the increase of + \$21.000 is due to the reprogramming from O&M to RDT&E for IM development to provide the business logic, work flow, rules, algorithms, etc. for case initiation through closure. Funding is required for a new, transformational continuous evaluation (CE) capability that includes machine learning and natural language processing as part of an Artificial Intelligence Platform as a Service. The full architectural stack includes an underlying Data Brokerage as a Service and is being constructed as a prototype application to replace the DoD’s existing CE application. In addition to development capabilities, additional funding is required for build-out of Agile pipeline that includes Development Security Operations which includes Cyber and Test activities to maintain Agile sprint and increment cadence.				
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2018	FY 2019	FY 2020
Title: Background Investigation Information Technology Systems		41.743	55.400	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.				
FY 2019 Plans: DoD will continue to enhance and improve the capability of the Initial Operational Capability (IOC) schedule for delivery at the end of FY18 to achieve full operational capability (FOC) at the end of FY19 by adding automation pulls from various data sources; providing capability for insider threat analysis; development and deployment of continuous evaluation capabilities; and tailoring to non-DoD systems. The FOC system will continue to defend against cyber-attacks and improve defensibility. This FOC system will provide the full suite of background investigation services to the whole federal government, not just DoD.				
FY 2020 Plans: DoD will continue to enhance and improve the capabilities. As part of an Agile development process, the National Background Investigation System will deploy additional releases in FY20 to improve automation of the background investigative process, improve analytic to address insider threat analysis and improve continuous evaluation capabilities and develop capabilities to meet additional Federal Agencies requirements. The system will continue to defend against cyber-attacks and improve defensibility by meeting new and evolving threats.				
FY 2019 to FY 2020 Increase/Decrease Statement: The decrease of -\$11.399 from FY 2019 to FY 2020 is the result of the completion of all initial major developmental implementation and testing activities to include: initial demonstration of Investigative Case Management, the switching over of				

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C. Accomplishments/Planned Programs (\$ in Millions)										FY 2018	FY 2019	FY 2020
vetting adjudication to the new E-Application Subject system, and meeting user requirements for the Position Designation tool (that assesses the duties and responsibilities of government employees).												
Accomplishments/Planned Programs Subtotals										41.743	55.400	44.001
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost	
• 0303430K, O&M: <i>Background Investigation Information Technology Systems</i>	47.138	64.745	82.046	-	82.046	112.322	119.789	122.451	126.194	Continuing	Continuing	
Remarks												
E. Acquisition Strategy												
<p>The NBIS program has assessed market solutions, built out capability solutions, and reduced technical risk through a series of component-level prototype and pilot efforts. The NBIS Program Office (PMO) will leverage the lessons learned from these prototype and pilot efforts and incorporate into the system-level build and integration of the NBIS prototype. Specifically, lessons learned from the Investigative Case Management (ICM) prototype will be incorporated into the ICM Request For Proposal (RFP) to leverage Industry's customized Commercial-off-the-Shelf (COTS) solutions. The ICM & Integration Request for Information (RFI) and Request for White Papers (RWP) were released in 4th Quarter FY 2017 and the RFP in 1st Quarter FY 2018; the end result was the IM Other Transaction Authority (OTA) awarded in 3rd Quarter FY 2018.</p>												
F. Performance Metrics												
Processing Capacity:												
Threshold: System shall have the capability to process 2 million cases per year.												
Objective: System shall have the capability to process 3 million cases per year.												
FY 2018 Planned: N/A												
FY 2019 Estimated: 1 thousand cases (IOC)												
FY 2020 Estimated: 2 thousand cases (IOC)												
Availability:												
Threshold: System shall have a continuous availability target of 99.9%												
Objective: System shall have a continuous availability target of 99.99%												

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FY 2018 Planned: N/A FY 2019 Estimated: 99.9% FY 2020 Estimated: 99.9%		
Security: Threshold: System shall operate within the Federal Information Security Management Act (FISMA) standards for a High, High, Moderate system with low and/or moderate vulnerabilities. Objective: System shall operate within the FISMA standards for a High, High, Moderate system with low vulnerabilities		
FY 2018 Planned: N/A / Actual: The system does not operate within the FISMA standards for High, High, Moderate system with low vulnerabilities FY 2019 Estimated: High, High, Moderate system with low and or medium vulnerabilities. FY 2020 Estimated: High, High, Moderate system with low and or medium vulnerabilities.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Defense Information Systems Agency												Date: March 2019			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 0303430K / Federal Investigative Services Information Technology				Project (Number/Name) KA1 / Federal Investigative Services Information Technology					
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
System Engineering	C/Various	Various : Various	-	-		3.116	Dec 2018	1.040	Dec 2019	-		1.040	Continuing	Continuing	-
Application Development	C/Various	Various : Various	75.000	41.743	Oct 2017	45.454	Nov 2018	38.214	Dec 2019	-		38.214	Continuing	Continuing	-
Testing	C/Various	Various : Various	-	-		6.830	Dec 2018	4.747	Dec 2019	-		4.747	Continuing	Continuing	-
Subtotal			75.000	41.743		55.400		44.001		-		44.001	Continuing	Continuing	N/A
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			75.000	41.743		55.400		44.001		-		44.001	Continuing	Continuing	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2020 Defense Information Systems Agency

Date: March 2019

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

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
NBIS																												
IOC Application Development																												
IOC Testing																												
IOC Implementation																												
FOC Development																												
FOC Testing																												
FOC Implementation																												
Post Deployment Improvement - Scheduled Releases																												
Post Deployment Improvement - Scheduled Releases																												

	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
NBIS																												
IOC Application Development																												
IOC Testing																												
IOC Implementation																												
FOC Development																												
FOC Testing																												
FOC Implementation																												
Post Deployment Improvement - Scheduled Releases																												
Post Deployment Improvement - Scheduled Releases																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Defense Information Systems Agency			Date: March 2019
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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
NBIS				
IOC Application Development	2	2017	3	2018
IOC Testing	3	2017	4	2020
IOC Implementation	4	2017	1	2020
FOC Development	4	2017	2	2019
FOC Testing	2	2017	4	2019
FOC Implementation	4	2017	1	2020
Post Deployment Improvement - Scheduled Releases				
Post Deployment Improvement - Scheduled Releases	1	2020	4	2024