Exhibit R-2, **RDT&E Budget Item Justification:** PB 2020 DoD Human Resources Activity											**Date:** March 2019	

Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I BA 5: System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605021SE *I Homeland Personnel Security Initiative*

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	0.158	4.893	0.296	7.295	-	7.295	7.295	7.304	7.310	7.317	Continuing	Continuing
01: *Homeland Security Presidential Directive (HSPD-12) Initiative/Recruiting Databases*	0.158	4.893	0.296	0.295	-	0.295	0.295	0.304	0.310	0.317	Continuing	Continuing
02: *Enterprise Data Services (EDS)*	-	0.000	0.000	4.200	-	4.200	4.200	2.800	2.800	2.800	Continuing	Continuing
03: *Identity Credential Management (ICM)*	-	0.000	0.000	2.800	-	2.800	2.800	4.200	4.200	4.200	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Department of Defense Human Resources Activity (DHRA) is a DoD-wide Field Activity chartered to support the Under Secretary of Defense for Personnel and Readiness (USD (P&R)). FY 2019 RDTE funds were applied to continue the research and investigation of multifactor authentication alternatives that may allow DoD to supplement current public key infrastructure and DoD Self-Service Logon authentication solutions, as well as security improvements and development of the USID card that provides identification for personnel not eligible for the standard CAC. In FY 2020 development of a pilot multifactor authentication alternative will begin. In addition, a new effort has begun in Identity Credential Management to enable data exchanges based on a common set of standard data attributes.

B. Program Change Summary ($ in Millions)

	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	4.893	0.296	0.295	0.000	0.295
Current President's Budget	4.893	0.296	7.295	0.000	7.295
Total Adjustments	0.000	0.000	7.000	0.000	7.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• ICM increase	-	-	7.000	-	7.000

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2018	FY 2019
Project: 02: *Enterprise Data Services (EDS)*		
Congressional Add: *Enterprise Data Services*	-	0.000

Exhibit R-2, **RDT&E Budget Item Justification:** PB 2020 DoD Human Resources Activity		**Date:** March 2019
Appropriation/Budget Activity 0400: *Research, Development, Test & Evaluation, Defense-Wide I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0605021SE *I Homeland Personnel Security Initiative*	

Congressional Add Details ($ in Millions, and Includes General Reductions)	**FY 2018**	**FY 2019**
Congressional Add Subtotals for Project: 02	-	0.000
Project: 03: *Identity Credential Management (ICM)*		
Congressional Add: *Identity Credential Management*	-	0.000
Congressional Add Subtotals for Project: 03	-	0.000
Congressional Add Totals for all Projects	-	0.000

Change Summary Explanation

Recruiting Databases: OPA JAMRS will continue to operate and maintain the expanded JAMRSdb in FY 2019 and beyond using O&M,DW funding.
Increase of $7M for Improvements in Identity, Credential, and Access Management (IACM) Authentication Services, across two programs: Enterprise Data Services (EDS) and Identity Credential Management (ICM).

Exhibit R-2A, **RDT&E Project Justification:** PB 2020 DoD Human Resources Activity		**Date:** March 2019
Appropriation/Budget Activity 0400 *I* 5	**R-1 Program Element (Number/Name)** PE 0605021SE *I Homeland Personnel Security Initiative*	**Project (Number/Name)** 01 *I Homeland Security Presidential Directive (HSPD-12) Initiative/Recruiting Databases*

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
01: *Homeland Security Presidential Directive (HSPD-12) Initiative/Recruiting Databases*	0.158	4.893	0.296	0.295	-	0.295	0.295	0.304	0.310	0.317	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Homeland Security Presidential Directive (HSPD-12) Initiative ($0.393 million): The Department of Defense Human Resources Activity (DHRA) is a DoD-wide Field Activity chartered to support the Under Secretary of Defense for Personnel and Readiness (USD (P&R)). HSPD-12 requires rapid electronic authentication for all Government employees, uniformed individuals and contractors. Real Time Automated Personnel Identification System (RAPIDS) is the infrastructure that supports the Uniformed Services identification card, provides on-line updates to DEERS and issues the CAC to Service members, civilian employees, and eligible contractors, thus providing an enterprise-wide credential for both physical and logical access to DoD facilities and networks. CAC uses the DEERS database for authentication and personnel information.

Recruiting Databases Project ($4.500 million): FY 2018 funds were directed to completing the expansion of recruiting database from the pilot started in FY 2017. It will be provided to all Military Services for use with officer and enlisted recruiting and to explore the merits of expanding use to civilian recruiting. Specifically, the funds will provide contractor support to research efforts on expanding the JAMRS Recruiting database for more precise direct messaging and run micro-targeting pilots with third party data buys.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2018	FY 2019	FY 2020
Title: Defense Enrollment Eligibility Reporting System/HSPD-12/Recruiting Databases *Description:* The Department of Defense Human Resources Activity (DHRA) is a DoD-wide Field Activity chartered to support the Under Secretary of Defense for Personnel and Readiness (USD (P&R)). HSPD-12 requires rapid electronic authentication for all Government employees, uniformed individuals and contractors. The Office of People analytics (OPA) JAMRS Recruiting Database (JAMRSdb) - Recruiting database provided to all Military Services. *FY 2019 Plans:* HSPD-12: FY 2019 RDTE funds in HSPD-12 will be applied to research and investigation of multifactor authentication alternatives that may allow DoD to supplement current public key infrastructure and DoD Self-Service Logon authentication solutions.	4.893	0.296	0.295

Exhibit R-2A, **RDT&E Project Justification:** PB 2020 DoD Human Resources Activity		**Date:** March 2019
Appropriation/Budget Activity 0400 I 5	**R-1 Program Element (Number/Name)** PE 0605021SE I *Homeland Personnel Security Initiative*	**Project (Number/Name)** 01 I *Homeland Security Presidential Directive (HSPD-12) Initiative/Recruiting Databases*

B. Accomplishments/Planned Programs ($ in Millions)	**FY 2018**	**FY 2019**	**FY 2020**
Recruiting Databases: OPA JAMRS will continue to operate and maintain the expanded JAMRSdb in FY 2019 and beyond using O&M, DW funding. ***FY 2020 Plans:*** HSPD-12: FY 2020 RDTE funds in HSPD-12 will be applied to continue research and development of multifactor authentication alternatives that may allow DoD to supplement current public key infrastructure and DoD Self-Service Logon authentication solutions. ***FY 2019 to FY 2020 Increase/Decrease Statement:*** HSPD-12: FY 2020 mission efforts continue.			
Accomplishments/Planned Programs Subtotals	4.893	0.296	0.295

C. Other Program Funding Summary ($ in Millions)
 N/A
Remarks

D. Acquisition Strategy
 HSPD-12: Existing contract vehicles in place/General Services Administration for Commercial Off The Shelf (COTS).

E. Performance Metrics
 None

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2020 DoD Human Resources Activity												**Date:** March 2019	

Appropriation/Budget Activity 0400 *I* 5	**R-1 Program Element (Number/Name)** PE 0605021SE *I Homeland Personnel Security Initiative*	**Project (Number/Name)** 01 *I Homeland Security Presidential Directive (HSPD-12) Initiative/Recruiting Databases*

Test and Evaluation ($ 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**
Homeland Personnel Security Directive (HSPD-12) Initiative/ Recruiting Databases	C/IDIQ	Gulf Coast Enterprise : Pensacola, FL	0.158	4.893	Dec 2017	0.296	Dec 2018	0.295	Dec 2019	0.000		0.295	Continuing	Continuing	-
		Subtotal	0.158	4.893		0.296		0.295		0.000		0.295	Continuing	Continuing	N/A

Remarks

HSPD-12: RDTE funds in HSPD-12 will extend through the FYDP and be applied to research and investigation of multifactor authentication alternatives that may allow DoD to supplement current public key infrastructure and DoD Self-Service Logon authentication solutions.

	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	0.158	4.893	0.296	0.295	0.000	0.295	Continuing	Continuing	N/A

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2020 DoD Human Resources Activity		**Date:** March 2019
Appropriation/Budget Activity 0400 / 5	**R-1 Program Element (Number/Name)** PE 0605021SE / *Homeland Personnel Security Initiative*	**Project (Number/Name)** 01 / *Homeland Security Presidential Directive (HSPD-12) Initiative/Recruiting Databases*

	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
Homeland Security Presidential Directive (HSPD-12)																												
Recruiting Databases								██	██	██																		

Exhibit R-4A, **RDT&E Schedule Details:** PB 2020 DoD Human Resources Activity		**Date:** March 2019
Appropriation/Budget Activity 0400 *I* 5	**R-1 Program Element (Number/Name)** PE 0605021SE *I Homeland Personnel Security Initiative*	**Project (Number/Name)** 01 *I Homeland Security Presidential Directive (HSPD-12) Initiative/Recruiting Databases*

Schedule Details

Events by Sub Project	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
Homeland Security Presidential Directive (HSPD-12)				
Recruiting Databases	4	2019	3	2020

Exhibit R-2A, RDT&E Project Justification: PB 2020 DoD Human Resources Activity		Date: March 2019

Appropriation/Budget Activity 0400 I 5	R-1 Program Element (Number/Name) PE 0605021SE I Homeland Personnel Security Initiative	Project (Number/Name) 02 I Enterprise Data Services (EDS)

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
02: Enterprise Data Services (EDS)	-	0.000	0.000	4.200	-	4.200	4.200	2.800	2.800	2.800	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Project 2: Enterprise Data Services - supports the DoD CIO initiative to implement end-to-end digital services for person and non-person entities in support of DoD cybersecurity, interoperability, and secure information sharing across the Department. The enhancements to DMDC data repositories will implement a data centric approach to collect, verify, maintain, and share identity and other attributes. The development of new data attributes and services will enable authentication to DoD networks and resources through common standards, shared services and federation.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2018	FY 2019	FY 2020
Title: Enterprise Data Services **Description:** The Enterprise Data Services funding will update the data attributes collected to secure trusted environments across the DoD so people and non-person entities can securely access all authorized resources based on mission need, and where DoD CIO has visibility of who and what is on the network at any point in time. **FY 2019 Plans:** N/A **FY 2020 Plans:** Develop a Mission Partner Registration service to enable a DoD Origin Network Identity Exchange solution which would enable cross-federal agency identity, credential, and information exchange from authoritative data sources. **FY 2019 to FY 2020 Increase/Decrease Statement:** Enterprise Data Services development begins in FY 2020 by establishing services to enable data exchanges based on a common set of standard data attributes.	0.000	0.000	4.200
Accomplishments/Planned Programs Subtotals	0.000	0.000	4.200

	FY 2018	FY 2019
Congressional Add: Enterprise Data Services	-	0.000
FY 2019 Plans: N/A		
Congressional Adds Subtotals	-	0.000

Exhibit R-2A, **RDT&E Project Justification:** PB 2020 DoD Human Resources Activity		**Date:** March 2019
Appropriation/Budget Activity 0400 *I* 5	**R-1 Program Element (Number/Name)** PE 0605021SE *I Homeland Personnel Security Initiative*	**Project (Number/Name)** 02 *I Enterprise Data Services (EDS)*

C. Other Program Funding Summary ($ in Millions)

 N/A

Remarks

D. Acquisition Strategy

 N/A

E. Performance Metrics

 None.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 DoD Human Resources Activity													Date: March 2019		

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605021SE / Homeland Personnel Security Initiative	Project (Number/Name) 02 / Enterprise Data Services (EDS)

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018 Cost	FY 2018 Award Date	FY 2019 Cost	FY 2019 Award Date	FY 2020 Base Cost	FY 2020 Base Award Date	FY 2020 OCO Cost	FY 2020 OCO Award Date	FY 2020 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Enterprise Data Services	C/IDIQ	DHRA : TBD	-	-		-		4.200		-		4.200	Continuing	Continuing	-
Subtotal			-	-		-		4.200		-		4.200	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	-	-	0.000	4.200	-	4.200	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2020 DoD Human Resources Activity		**Date:** March 2019
Appropriation/Budget Activity 0400 / 5	**R-1 Program Element (Number/Name)** PE 0605021SE / *Homeland Personnel Security Initiative*	**Project (Number/Name)** 02 / *Enterprise Data Services (EDS)*

	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
Enterprise Data Services																												
Enterprise Data Services									██████████████																			

Exhibit R-4A, **RDT&E Schedule Details:** PB 2020 DoD Human Resources Activity		**Date:** March 2019
Appropriation/Budget Activity 0400 / 5	**R-1 Program Element (Number/Name)** PE 0605021SE / *Homeland Personnel Security Initiative*	**Project (Number/Name)** 02 / *Enterprise Data Services (EDS)*

Schedule Details

Events by Sub Project	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
Enterprise Data Services				
Enterprise Data Services	2	2020	2	2021

Exhibit R-2A, RDT&E Project Justification: PB 2020 DoD Human Resources Activity		Date: March 2019

Appropriation/Budget Activity 0400 I 5	R-1 Program Element (Number/Name) PE 0605021SE I Homeland Personnel Security Initiative	Project (Number/Name) 03 I Identity Credential Management (ICM)

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
03: *Identity Credential Management (ICM)*	-	0.000	0.000	2.800	-	2.800	2.800	4.200	4.200	4.200	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Identity Credential Management establishes DHRA/DMDC as the Identity Credential Service Provider for the Department of Defense to develop improved credentialing solutions including the implementation of multi-factor authentication registration service, assertion services, authentication gateway, and a centralized enterprise credential management service.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2018	FY 2019	FY 2020
Title: Identity Credential Management	0.000	-	2.800
FY 2020 Plans: FY 2020 RDT&E funds will be applied to begin development of improved multifactor authentication technologies in support of DoD and VA associated individuals that require access to government websites using a trusted credential. *FY 2019 to FY 2020 Increase/Decrease Statement:* Research and development work supporting Identity Credential Management development begins in FY 2020.			
Accomplishments/Planned Programs Subtotals	0.000	-	2.800

	FY 2018	FY 2019
Congressional Add: Identity Credential Management	-	0.000
FY 2019 Plans: N/A		
Congressional Adds Subtotals	-	0.000

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

Exhibit R-2A, **RDT&E Project Justification:** PB 2020 DoD Human Resources Activity		**Date:** March 2019
Appropriation/Budget Activity 0400 *I* 5	**R-1 Program Element (Number/Name)** PE 0605021SE *I Homeland Personnel Security Initiative*	**Project (Number/Name)** 03 *I Identity Credential Management (ICM)*

E. Performance Metrics
  N/A.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 DoD Human Resources Activity			Date: March 2019

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605021SE / Homeland Personnel Security Initiative	Project (Number/Name) 03 / Identity Credential Management (ICM)

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2018 Cost	FY 2018 Award Date	FY 2019 Cost	FY 2019 Award Date	FY 2020 Base Cost	FY 2020 Base Award Date	FY 2020 OCO Cost	FY 2020 OCO Award Date	FY 2020 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Identity Credential Management	C/IDDQ	DHRA : TBD	-	-		-		2.800		-		2.800	Continuing	Continuing	-
Subtotal			-	-		-		2.800		-		2.800	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	-	-	0.000	2.800	-	2.800	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2020 DoD Human Resources Activity		**Date:** March 2019
Appropriation/Budget Activity 0400 *I* 5	**R-1 Program Element (Number/Name)** PE 0605021SE *I Homeland Personnel Security Initiative*	**Project (Number/Name)** 03 *I Identity Credential Management (ICM)*

	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
Identity Credential Management																												
Identity Credential Management										███████████████																		

Exhibit R-4A, **RDT&E Schedule Details:** PB 2020 DoD Human Resources Activity		**Date:** March 2019
Appropriation/Budget Activity 0400 *I* 5	**R-1 Program Element (Number/Name)** PE 0605021SE *I Homeland Personnel Security Initiative*	**Project (Number/Name)** 03 *I Identity Credential Management (ICM)*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Identity Credential Management				
Identity Credential Management	2	2020	2	2021