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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 DoD Human Resources Activity **Date:** February 2020

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605021SE / <i>Homeland Personnel Security Initiative</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	5.051	0.296	7.295	7.287	-	7.287	7.297	7.303	7.310	7.456	Continuing	Continuing
01: <i>Homeland Security Presidential Directive (HSPD-12) Initiative/Recruiting Databases</i>	5.051	0.296	0.295	0.295	-	0.295	0.304	0.310	0.317	0.323	Continuing	Continuing
02: <i>Enterprise Data Services (EDS)</i>	0.000	0.000	4.200	4.195	-	4.195	2.797	2.797	2.797	2.853	Continuing	Continuing
03: <i>Identity Credential Management (ICM)</i>	0.000	0.000	2.800	2.797	-	2.797	4.196	4.196	4.196	4.280	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)). RDT&E funds are applied to continue the research and investigation of multifactor authentication and credential alternatives and the development of a registry that may allow DoD to supplement current public key infrastructure and DoD self-service authentication solutions. Funding is also used to research security and standards compliance improvements for the CAC and the USID card, which provides identification for personnel not eligible for the CAC. Funding for the Identity Credential Management (ICM) and Enterprise Data Services (EDS) programs supports the DoD Chief Information Officer's Identity, Credential and Access Management (ICAM) initiatives.

B. Program Change Summary (\$ in Millions)

	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>
Previous President's Budget	0.296	7.295	7.287	-	7.287
Current President's Budget	0.296	7.295	7.287	-	7.287
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	-	-			

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 01: *Homeland Security Presidential Directive (HSPD-12) Initiative/Recruiting Databases*

Congressional Add: *Defense Enrollment Eligibility Reporting System/HSPD-12*

FY 2019	FY 2020
0.000	-

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Congressional Add Details (\$ in Millions, and Includes General Reductions)	FY 2019	FY 2020
Congressional Add Subtotals for Project: 01	0.000	-
Project: 02: <i>Enterprise Data Services (EDS)</i> Congressional Add: <i>Enterprise Data Services</i>	0.000	-
Congressional Add Subtotals for Project: 02	0.000	-
Project: 03: <i>Identity Credential Management (ICM)</i> Congressional Add: <i>Identity Credential Management</i>	0.000	-
Congressional Add Subtotals for Project: 03	0.000	-
Congressional Add Totals for all Projects	0.000	-

Change Summary Explanation

No change.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 DoD Human Resources Activity										Date: February 2020		
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			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
01: Homeland Security Presidential Directive (HSPD-12) Initiative/Recruiting Databases	5.051	0.296	0.295	0.295	-	0.295	0.304	0.310	0.317	0.323	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Homeland Security Presidential Directive (HSPD-12) Initiative: HSPD-12 requires rapid electronic authentication for all Government employees, uniformed individuals and contractors. Real Time Automated Personnel Identification System (RAPIDS) is the capability that supports the Uniformed Services identification card, provides online 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.

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

	FY 2019	FY 2020	FY 2021
Title: Defense Enrollment Eligibility Reporting System/HSPD-12	0.296	0.295	0.295
Description: HSPD-12 requires rapid electronic authentication for all Government employees, uniformed individuals and contractors.			
FY 2020 Plans: HSPD-12: FY 2020 RDT&E funds for HSPD-12 will be applied to improve compliance with Federal Personnel Identification Verification (PIV) standards of the CAC and increase the security of communication over the contactless interface of the CAC and usage with physical access solutions.			
FY 2021 Plans: HSPD-12: FY 2021 HSPD-12 RDT&E funds will be used to continue improved standards compliance and security of the CAC.			
FY 2020 to FY 2021 Increase/Decrease Statement: HSPD-12: No change.			
Accomplishments/Planned Programs Subtotals	0.296	0.295	0.295
	FY 2019	FY 2020	
Congressional Add: Defense Enrollment Eligibility Reporting System/HSPD-12	0.000	-	

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Exhibit R-2A, RDT&E Project Justification: PB 2021 DoD Human Resources Activity **Date:** February 2020

Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605021SE / <i>Homeland Personnel Security Initiative</i>	Project (Number/Name) 01 / <i>Homeland Security Presidential Directive (HSPD-12) Initiative/Recruiting Databases</i>
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	FY 2019	FY 2020
<i>FY 2019 Accomplishments:</i> N/A		
Congressional Adds Subtotals	0.000	-

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).

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 DoD Human Resources Activity											Date: February 2020				
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							

Test and Evaluation (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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	5.051	0.296	Dec 2018	0.295	Dec 2019	0.295	Dec 2020	-		0.295	Continuing	Continuing	-
Subtotal			5.051	0.296		0.295		0.295		-		0.295	Continuing	Continuing	N/A

Remarks
HSPD-12: RDT&E funds in HSPD-12 will extend through the FYDP and be applied to research and investigation of improved standards compliance and security of the CAC.

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	5.051	0.296	0.295	0.295	-	0.295	Continuing	Continuing	N/A

Remarks

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 DoD Human Resources Activity		Date: February 2020
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605021SE / <i>Homeland Personnel Security Initiative</i>	Project (Number/Name) 01 / <i>Homeland Security Presidential Directive (HSPD-12) Initiative/Recruiting Databases</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Homeland Security Presidential Directive (HSPD-12)</i>				
Recruiting Databases	1	2021	4	2021

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Exhibit R-2A, RDT&E Project Justification: PB 2021 DoD Human Resources Activity **Date:** February 2020

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)
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
02: Enterprise Data Services (EDS)	0.000	0.000	4.200	4.195	-	4.195	2.797	2.797	2.797	2.853	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Project 2: Enterprise Data Services - supports the DoD CIO Identity, Credential and Access Management initiative to implement end-to-end digital services for person entities in support of DoD cybersecurity, interoperability, and secure information sharing across the Department and with mission partners. 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 2019	FY 2020	FY 2021
Title: Enterprise Data Services	0.000	4.200	4.195
Description: Enterprise Data Services funding will update the data structures and attributes collected to secure trusted environments across the DoD so people can securely access all authorized resources based on mission need. These updates will also ensure DoD CIO has visibility of who and what is on the network at any point in time.			
FY 2020 Plans: Develop a Mission Partner Registration service and enable a DoD back-end attribute exchange solution which will enable mission partner and cross-federal agency identity, credential, and information exchange from authoritative data sources.			
FY 2021 Plans: FY 2021 RDT&E funds will be used to continue the development of a Mission Partner Registration and the back-end attribute exchange.			
FY 2020 to FY 2021 Increase/Decrease Statement: No change.			
Accomplishments/Planned Programs Subtotals	0.000	4.200	4.195

	FY 2019	FY 2020
Congressional Add: Enterprise Data Services	0.000	-
FY 2019 Accomplishments: N/A		
Congressional Adds Subtotals	0.000	-

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

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 DoD Human Resources Activity		Date: February 2020
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605021SE / <i>Homeland Personnel Security Initiative</i>	Project (Number/Name) 02 / <i>Enterprise Data Services (EDS)</i>

FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
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	

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 DoD Human Resources Activity		Date: February 2020
Appropriation/Budget Activity 0400 / 5	R-1 Program Element (Number/Name) PE 0605021SE / <i>Homeland Personnel Security Initiative</i>	Project (Number/Name) 02 / <i>Enterprise Data Services (EDS)</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Enterprise Data Services</i>				
Enterprise Data Services	2	2020	2	2021

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Exhibit R-2A, RDT&E Project Justification: PB 2021 DoD Human Resources Activity										Date: February 2020		
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)		
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
03: <i>Identity Credential Management (ICM)</i>	0.000	0.000	2.800	2.797	-	2.797	4.196	4.196	4.196	4.280	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Identity Credential Management establishes DHRA/DMDC as the Identity Credential Registration Service Provider for the Department of Defense; in this role, DMDC will develop improved identity federation solutions including the implementation of multi-factor authentication registration services, attribute assertion services, and a centralized enterprise credential registry service.

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

	FY 2019	FY 2020	FY 2021
Title: Identity Credential Management	-	2.800	2.797
Description: Identity Credential Management establishes DHRA/DMDC as the Identity Credential Registration Service Provider for the Department of Defense; in this role, DMDC will develop improved identity federation solutions including the implementation of multi-factor authentication registration services, attribute assertion services, and a centralized enterprise credential registry service.			
FY 2020 Plans: FY 2020 RDT&E funds will be applied to begin development of mission partner registration services for identity and credential attributes to improve identity and authentication federation in support of DoD and mission partners that require access to government resources using a trusted credential.			
FY 2021 Plans: FY 2021 RDT&E funds will be used to continue the development and deployment of mission partner registration services.			
FY 2020 to FY 2021 Increase/Decrease Statement: No change.			
Accomplishments/Planned Programs Subtotals	-	2.800	2.797
	FY 2019	FY 2020	
Congressional Add: Identity Credential Management	0.000	-	
FY 2019 Accomplishments: N/A			
Congressional Adds Subtotals	0.000	-	

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

N/A

Remarks

N/A

D. Acquisition Strategy

N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 DoD Human Resources Activity		Date: February 2020
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	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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
<i>Identity Credential Management</i>																												
Identity Credential Management																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 DoD Human Resources Activity		Date: February 2020
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Identity Credential Management</i>				
Identity Credential Management	1	2020	4	2021