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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Army **Date:** February 2020

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604785A / <i>Integrated Base Defense (Budget Activity 4)</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	-	0.000	2.000	0.000	2.020	2.020	0.000	0.000	0.000	0.000	0.000	4.020
DS4: <i>Integrated Base Defense</i>	-	0.000	2.000	0.000	2.020	2.020	0.000	0.000	0.000	0.000	0.000	4.020

A. Mission Description and Budget Item Justification

Integrated Base Defense (IBD) provides integration of software and analytical capability to support the integration of systems in the field. IBD employs an enterprise approach to enable IBD capabilities across the operational spectrum by leveraging interoperability efforts in support of the Integrated Unit, Base, and Installation Protection framework focused on system engineering and software development.

Counter Vehicle Borne Improvised Explosive Device (CVBIED) is an integrated suite of systems developed in response to CENTCOM JUONS CC-0540. CVBIED provides an early VBIED detection capability prior to vehicles reaching entry into Forward Operating Bases. Additional sensor systems are being integrated into the current Force Protection infrastructure as part of CVBIED.

Counter Vehicle Borne Improvised Explosive Device (CVBIED) is not a new start, the program was moved from Program Element 0605033A in FY 2018 and 0205402A in FY 2019.

B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	0.000	2.000	2.020	-	2.020
Current President's Budget	0.000	2.000	0.000	2.020	2.020
Total Adjustments	0.000	0.000	-2.020	2.020	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-2.020	2.020	0.000

Change Summary Explanation

Counter Vehicle Borne Improvised Explosive Device (CVBIED) is not a new start, the program was moved from Program Element 0605033A in FY 2018 and 0205402A in FY 2019.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0604785A / <i>Integrated Base Defense (Budget Activity 4)</i>				Project (Number/Name) DS4 / <i>Integrated Base Defense</i>			
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
DS4: <i>Integrated Base Defense</i>	-	0.000	2.000	0.000	2.020	2.020	0.000	0.000	0.000	0.000	0.000	4.020
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Counter Vehicle Borne Improvised Explosive Device (CVBIED) is not a new start, the program was moved from Program Element 0605033A in FY 2018 and 0205402A in FY 2019.

A. Mission Description and Budget Item Justification

Integrated Base Defense (IBD) provides integration of software and analytical capability to support the integration of systems in the field. IBD employs an enterprise approach to enable IBD capabilities across the operational spectrum by leveraging interoperability efforts in support of the Integrated Unit, Base, and Installation Protection framework focused on system engineering and software development.

Counter Vehicle Borne Improvised Explosive Device (CVBIED) is an integrated suite of systems developed in response to CENTCOM JUONS CC-0540. CVBIED provides an early VBIED detection capability prior to vehicles reaching entry into Forward Operating Bases. Additional sensor systems are being integrated into the current Force Protection infrastructure as part of CVBIED.

OCO funding in the amount of \$2.020 million supports continued integration of CVBIED technologies into the current Force Protection infrastructure to address capabilities gaps with JUONS CC-0540.

Counter Vehicle Borne Improvised Explosive Device (CVBIED) is not a new start, the program was moved from Program Element 0605033A in FY 2018 and 0205402A in FY 2019.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: CVBIED Design and Build	-	2.000	0.000	2.020	2.020
Description: Effort continues the design and integration of CVBIED technologies into the current Force Protection infrastructure to address capabilities gaps within JUONS CC-0540					
FY 2020 Plans: Funding support continued integration of CVBIED technologies into the current Force Protection infrastructure to address capabilities gaps within JUONS CC-0540.					
FY 2021 Base Plans:					

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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604785A / <i>Integrated Base Defense</i> (Budget Activity 4)	Project (Number/Name) DS4 / <i>Integrated Base Defense</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
No Base RDTE provided					
<i>FY 2021 OCO Plans:</i> Funding will support continued integration of CVBIED technologies into the current Force Protection infrastructure to address capabilities gaps with JUONS CC-0540.					
<i>FY 2020 to FY 2021 Increase/Decrease Statement:</i> Inflationary increase over previous budget year					
Accomplishments/Planned Programs Subtotals	-	2.000	0.000	2.020	2.020

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• M90115: INTEG BASE DEF NONSTAND EQUIP (IBD NS-E) KITTING	39.200	39.984	0.000	64.584	64.584	-	-	-	-	0.000	143.768

Remarks

D. Acquisition Strategy

The IBD acquisition strategy is to leverage existing IBD-related government organizations and to competitively award multiple contracts in support of IBD objectives for the development of holistic IBD architectures and products to support interoperability of fielded and emerging IBD-related systems. JUONS CC-0540 (CVBIED) equipment is comprised of a combination of Commercial and Government Off the Shelf items integrated to meet the requirements of JUONS CC-0540 (CVBIED).

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army **Date:** February 2020

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Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
JUONS CC-0540 System Integration	MIPR	AMRDEC : Huntsville, AL	-	-		0.379	Jan 2020	0.000		0.400	Jan 2021	0.400	0.000	0.779	-
JUONS CC-0540 Hyper spectral Sensor Development Support	MIPR	RDECOM CERDEC : Fort Belvoir, VA	-	-		0.203	Jan 2020	0.000		0.500	Jan 2021	0.500	0.000	0.703	-
JUONS CC-0540 Wide Area Motion Imagery Sensor Development	MIPR	NAVAIR : Patuxent River, MD	-	-		0.608	Jan 2020	0.000		0.350	Jan 2021	0.350	0.000	0.958	-
Integrated System Architecture (ISA) SW Development Support	MIPR	NVESD : Fort Belvoir	-	-		-		0.000		0.270	Jan 2021	0.270	0.000	0.270	-
Subtotal			-	-		1.190		0.000		1.520		1.520	0.000	2.710	N/A

Test and Evaluation (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Test and Evaluation	MIPR	ATEC : Aberdeen Proving Ground, MD	-	-		0.810	Jan 2020	0.000		0.500	Oct 2020	0.500	0.000	1.310	-
Subtotal			-	-		0.810		0.000		0.500		0.500	0.000	1.310	N/A

	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		-	-	2.000	0.000	2.020	0.000	4.020	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604785A / <i>Integrated Base Defense</i> (Budget Activity 4)	Project (Number/Name) DS4 / <i>Integrated Base Defense</i>

Event Name	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
Development, Test and Integration					System Development and Component Integration																							
Integration Test Events					AVIS Integration																							
Video Analytics/Computer Learning Integration					Computer Learning Integration																							
Fixed Control Station Integration					FCS Integration																							
Facial Recognition/ RFID implementation					Facial Rec/RFID marking																							
Intelligent Remote Imaging Spectrometer- Ground and Kestrel Block II Phase I					IRIS-G and KB2 Integration Phase I																							
Intelligent Remote Imaging Spectrometer- Ground and Kestrel Block II Phase II					IRIS-G and KB2 Integration Phase II																							
GECCO - NIDS Phase I					GECCO - NIDS Integration Phase I																							
ATEC Capabilities and Limitations- Increment 1					IOTE Inc 1																							
ATEC Capabilities and Limitations - Increment 2					IOTE Inc 2																							

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Development, Test and Integration	4	2019	4	2021
Integration Test Events	4	2019	4	2021
Video Analytics/Computer Learning Integration	4	2019	2	2020
Fixed Control Station Integration	1	2020	4	2021
Facial Recognition/ RFID implementation	4	2020	1	2021
Intelligent Remote Imaging Spectrometer- Ground and Kestrel Block II Phase I	1	2020	4	2020
Intelligent Remote Imaging Spectrometer- Ground and Kestrel Block II Phase II	1	2021	3	2021
GECO - NIDS Phase I	2	2021	4	2021
ATEC Capabilities and Limitations- Increment 1	3	2020	4	2020
ATEC Capabilities and Limitations - Increment 2	2	2021	3	2021