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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 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0205402A / <i>Integrated Base Defense - Operational System Dev</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	-	8.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.000
EF2: <i>Integrated Base Defense</i>	-	8.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.000

Note
Beginning in FY 2017 Ground-Based Operational Surveillance System - Expeditionary (GBOSS-E) funding is under PE0605033A Project EQ3. Beginning in FY 2017 Integrated Ground Security, Surveillance and Response Capability (IGSSR-C) funding is under PE0605029A Project EQ2.

Beginning in FY 2020 Integrated Base Defense (IBD) and Counter Vehicle Borne Improvised Explosive Device (CVBIED) efforts are funded under PE0604785A Project DS4.

A. Mission Description and Budget Item Justification
Integrated Base Defense (IBD): The purpose of IBD Kitting is to harvest and refurbish physical security and Force Protection (FP) Non-Standard Equipment (NS-E) and package them into integrated and interoperable IBD Capabilities. 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 (IUBIP) framework. In support of JUONS 0540 to address the Vehicle Borne Improvised Explosive Device (VBIED) threat. Additional capabilities are being developed and integrated to the current Force Protection structure.

Justification: There is no FY 2021 funding requested for this PE.

B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	8.000	0.000	0.000	-	0.000
Current President's Budget	8.000	0.000	0.000	-	0.000
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	-	-			

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

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205402A / <i>Integrated Base Defense - Operational System Dev</i>	Project (Number/Name) EF2 / <i>Integrated Base Defense</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
EF2: <i>Integrated Base Defense</i>	-	8.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note
Beginning in FY 2017 Ground-Based Operational Surveillance System - Expeditionary (GBOSS-E) funding is under PE0605033A Project EQ3. Beginning in FY 2017 Integrated Ground Security, Surveillance and Response Capability (IGSSR-C) funding is under PE0605029A Project EQ2.

Beginning in FY 2020 Integrated Base Defense (IBD) / Counter Vehicle Borne Improvised Explosive Device (CVBIED) program funding is under PE0604785A Project DS4.

A. Mission Description and Budget Item Justification
Integrated Base Defense (IBD): The purpose of IBD is to harvest and refurbish physical security and FP Non-Standard Equipment and package them into integrated and interoperable IBD Capabilities. 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. Additionally, IBD is being updated in response to JUONS 0540 to address the Vehicle Borne Improvised Explosive Device (VBIED) threat. These capabilities are being developed and integrated into the current Force Protection infrastructure.

FY 2021: No funding requested for this PE

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: IBD JUONS 0540	8.000	-	-	-	-
Accomplishments/Planned Programs Subtotals	8.000	-	-	-	-

C. Other Program Funding Summary (\$ in Millions)	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
Line Item											
• M90115: INTEG BASE	39.200	39.984	0.000	64.584	64.584	-	-	-	-	0.000	143.768
DEF NONSTAND EQUIP (IBD NS-E) KITTING											

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
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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.

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

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205402A / Integrated Base Defense - Operational System Dev	Project (Number/Name) EF2 / Integrated Base Defense
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Management Services (\$ 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			
G-BOSS(E) Project Management	MIPR	PM EOIR : Fort Belvoir, VA	0.288	-		-		-		-		-	0.000	0.288	-
IGSSR-C Project Management	MIPR	PM EOIR : Fort Belvoir, VA	0.175	-		-		-		-		-	0.000	0.175	-
IBD Engineering and Management Services	Allot	Joint Project Manager Guardian Joint Product Manager Force Protection Services : Fort Belvoir, VA	0.630	-		-		-		-		-	0.000	0.630	-
JUONS 0540 PMO	TBD	PdM FPS : Fort Belvoir, VA	-	0.460	Dec 2018	-		-		-		-	0.000	0.460	-
Subtotal			1.093	0.460		-		-		-		-	0.000	1.553	N/A

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			
G-BOSS(E) Design	MIPR	NSWC Crane : Crane, IN	1.985	-		-		-		-		-	0.000	1.985	-
G-BOSS(E) Prototypes	MIPR	RDECOM CERDEC : Fort Belvoir, VA	2.733	-		-		-		-		-	0.000	2.733	-
IGSSR-C Design	C/CPFF	TBD : TBD	2.653	-		-		-		-		-	0.000	2.653	-
IBD Architecture and Software Development	C/CR	AMRDEC : Huntsville, AL	4.985	-		-		-		-		-	0.000	4.985	-
IBD Design and Build	C/CR	AMRDEC : Huntsville, AL	0.750	-		-		-		-		-	0.000	0.750	-
JUONS 0540 integration	C/CR	AMRDEC : Huntsville, AL	-	4.040	Jan 2019	-		-		-		-	0.000	4.040	-
Subtotal			13.106	4.040		-		-		-		-	0.000	17.146	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army			Date: February 2020
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205402A / <i>Integrated Base Defense - Operational System Dev</i>	Project (Number/Name) EF2 / <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
IBD JUONS 540 Integration	██████████				██████████																							
IBD JUONS 540 ATEC Testing	██████████																											

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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
IBD CONOPS & Architecture	2	2016	1	2017
IBD Development Integration and Testing	3	2017	1	2018
IBD JUONS 540 Integration	1	2017	3	2019
IBD JUONS 540 ATEC Testing	1	2019	4	2019