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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2017 Army **Date:** February 2016

<b>Appropriation/Budget Activity</b> 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)	<b>R-1 Program Element (Number/Name)</b> PE 0605029A / Integrated Ground Security Surveillance Response Capability (IGSSR-C)
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	0.000	0.000	4.980	-	4.980	2.100	1.774	0.000	0.000	0.000	8.854
EQ2: <i>IntegGrdSecSurvRespC(IGSSR-C)</i>	-	0.000	0.000	4.980	-	4.980	2.100	1.774	0.000	0.000	0.000	8.854

**Note**

Integrated Ground Security, Surveillance and Response Capability (IGSSR-C) was previously funded in Integrated Base Defense (IBD) Program Element: 0205402A EF2. This is not a new start program in FY17.

**A. Mission Description and Budget Item Justification**

IGSSR-C: The Integrated Ground Security, Surveillance and Response Capability (IGSSR-C) is an Automated Information System (AIS) program. IGSSR-C has a requirement to provide a layered approach to integrate sensors, sensor systems and unmanned systems with automated fusion capabilities. The system will provide a Force Protection (FP) Common Operational Picture (COP) capability for CONUS fixed, OCONUS semi-fixed or expeditionary elements in all Operating Environments (OE).

This capability will enable rapid decision analysis, speed the response process as well as increase information dissemination horizontally and vertically along the chain of command and with outside supporting organizations. IGSSR-C is a software centric fusion engine that connects legacy and emerging FP systems, legacy Chemical, Biological, Radiological, and Nuclear (CBRN), unmanned systems, biometric identification and forensic data systems. The desired end state is to achieve interoperability and COP with current and emerging FP systems used by Joint Forces, Department of Defense (DoD) agencies and multi-national forces.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	4.980	-	4.980
Total Adjustments	0.000	0.000	4.980	-	4.980
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	4.980	-	4.980

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<b><u>Change Summary Explanation</u></b> Increase in FY 2017 is due to funding being realigned from Integrated Base Defense (IBD) Program Element: 0205402A Project EF2 for Integrated Ground Security, Surveillance and Response Capability (IGSSR-C).		

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Army										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 2040 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0605029A / <i>Integrated Ground Security Surveillance Response Capability (IGSSR-C)</i>				<b>Project (Number/Name)</b> EQ2 / <i>IntegGrdSecSurvRespC(IGSSR-C)</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
EQ2: <i>IntegGrdSecSurvRespC(IGSSR-C)</i>	-	0.000	0.000	4.980	-	4.980	2.100	1.774	0.000	0.000	0.000	8.854
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

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**A. Mission Description and Budget Item Justification**

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FY 2017 Base Funding in the amount of \$4.980 million supports the development of release 3 of the Integrated Ground Security, Surveillance and Response – Capability (IGSSR-C) software baseline which is focused on Key System Attributes (KSAs) and Additional Performance Parameters (APAs), completion of the Critical Design Review (CDR), initiation of the training analysis and development, development of three prototype hardware platforms and for developmental testing events.

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<b>Title:</b> IGSSR-C Design and Development	-	-	4.980
<b>Description:</b> Completes IGSSR-C design efforts and initiates software integration activities.			
<b>FY 2017 Plans:</b> Complete IGSSR-C design efforts and initiates software integration activities.			
<b>Accomplishments/Planned Programs Subtotals</b>	-	-	4.980

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605029A / <i>Integrated Ground Security Surveillance Response Capability (IGSSR-C)</i>	<b>Project (Number/Name)</b> EQ2 / <i>IntegGrdSecSurvRespC(IGSSR-C)</i>

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• IGSSR-C (M90106): <i>IGSSR-C (M90106)</i>	-	-	-	-	-	1.766	3.566	8.990	7.084	Continuing	Continuing
• Integrated Base Defense (0205402A): <i>Integrated Base Defense (0205402A)</i>	4.196	10.750	-	-	-	-	-	-	-	0	14.946

**Remarks**

Integrated Ground Security, Surveillance and Response Capability (IGSSR-C) was previously funded in Integrated Base Defense (IBD) Program Element: 0205402A EF2, which was a shared funding line between IGSSR-C, Ground-Based Operational Surveillance System (Expeditionary) (G-BOSS(E)), and Integrated Base Defense (IBD). IGSSR-C portion was \$3.500 million in FY 2016.

**D. Acquisition Strategy**

The Integrated Ground Security, Surveillance and Response Capability (IGSSR-C) provides a layered approach to integrate sensors, sensor systems and unmanned systems. The IGSSR-C Capability Design Document (CDD) was approved September 2013. IGSSR-C is made up of a suite of software that achieves integration, fusion and interoperability in support of the Army Acquisition Executive's Common Operating Environment (COE) Command Post Compute Environment (CPCE) and Sensor CE efforts.

In FY 2014, the Department of Defense (DoD) Physical Security Enterprise and Analysis Group (PSEAG) provided funds to conduct pre-milestone B activities. IGSSR-C received an approved Materiel Development Decision (MDD) from the Milestone Decision Authority (MDA) on 4 December 2015. The acquisition strategy for FY 2017 is pending approval from the MDA, with plans to leverage the Night Vision and Electronic Sensors Directorate (NVESD), Fort Belvoir, Virginia to develop, integrate and test the Initial Capability (IC). No production activities are planned for FY 2017. Milestone C is planned for FY 2019 to align Ground-Based Operational Surveillance System (Expeditionary) (G-BOSS(E)), Tactical Security System (TSS) and Integrated Ground Security, Surveillance and Response Capability (IGSSR-C) in order to gain programmatic efficiencies.

**E. Performance Metrics**

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Army												Date: February 2016			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 5				PE 0605029A / Integrated Ground Security Surveillance Response Capability (IGSSR-C)				EQ2 / IntegGrdSecSurvRespC(IGSSR-C)							
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
IGSSR-C Project Management	MIPR	PM EO/IR : Fort Belvoir, VA	0.000	-		-		0.151	Dec 2016	-		0.151	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.000	-		-		0.151		-		0.151	-	-	-
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
IGSSR-C Design	TBD	TBD : TBD	0.000	-		-		1.873	Dec 2016	-		1.873	Continuing	Continuing	Continuing
IGSSR-C Prototypes	TBD	TBD : TBD	0.000	-		-		1.865	Dec 2016	-		1.865	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.000	-		-		3.738		-		3.738	-	-	-
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
IGSSR-C Design Support	MIPR	RDECOM CERDEC : Fort Belvoir, VA	0.000	-		-		0.505	Dec 2016	-		0.505	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.000	-		-		0.505		-		0.505	-	-	-
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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
IGSSR-C Test and Evaluation	MIPR	ATEC : Aberdeen Proving Ground, MD	0.000	-		-		0.586	Dec 2016	-		0.586	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.000	-		-		0.586		-		0.586	-	-	-



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**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Army** **Date:** February 2016

<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605029A / <i>Integrated Ground Security Surveillance Response Capability (IGSSR-C)</i>	<b>Project (Number/Name)</b> EQ2 / <i>IntegGrdSecSurvRespC(IGSSR-C)</i>
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Event Name	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
(1) IGSSR-C Material Development Decision					▲ 1 MDD																							
IGSSR-C Risk Reduction					■ Risk Reduction																							
(2) IGSSR-C Milestone B					▲ 2 MS B																							
IGSSR-C Development/Test/Integration					■ Dev/Test/Int																							
(3) IGSSR-C Milestone C													▲ 3 MS C															
IGSSR-C Limited Deployment (LD)													■ Limited Deployment															
(4) IGSSR-C Full Deployment Decision																	▲ 4 FDD											
IGSSR-C Full Deployment																	■ Full Deployment											

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Army		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 2040 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0605029A / <i>Integrated Ground Security Surveillance Response Capability (IGSSR-C)</i>	<b>Project (Number/Name)</b> EQ2 / <i>IntegGrdSecSurvRespC(IGSSR-C)</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
IGSSR-C Material Development Decision	1	2016	1	2016
IGSSR-C Risk Reduction	4	2015	3	2016
IGSSR-C Milestone B	3	2016	3	2016
IGSSR-C Development/Test/Integration	3	2016	1	2019
IGSSR-C Milestone C	1	2019	1	2019
IGSSR-C Limited Deployment (LD)	1	2019	4	2020
IGSSR-C Full Deployment Decision	1	2021	1	2021
IGSSR-C Full Deployment	1	2021	4	2022