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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army										Date: February 2018		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0605029A I Integrated Ground Security Surveillance Response Capability (IGSSR-C)							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	4.789	4.418	3.211	-	3.211	5.780	0.000	0.000	0.000	0.000	18.198
EQ2: IntegGrdSecSurvRespC(IGSSR-C)	-	4.789	4.418	3.211	-	3.211	5.780	0.000	0.000	0.000	0.000	18.198

## Note

Integrated Ground Security, Surveillance and Response Capability (IGSSR-C) was funded in Integrated Base Defense (IBD) Program Element: 0205402A EF2 in FY 2016

## 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 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>
Previous President's Budget	4.980	4.418	1.324	-	1.324
Current President's Budget	4.789	4.418	3.211	-	3.211
Total Adjustments	-0.191	0.000	1.887	-	1.887
• Congressional General Reductions	-0.002	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.189	-			
• Adjustments to Budget Years	-	-	1.887	-	1.887

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PE 0605029A: *Integrated Ground Security Surveillance ...*  
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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0605029A / Integrated Ground Security Surveillance Response Capability (IGSSR-C)				Project (Number/Name) EQ2 / IntegGrdSecSurvRespC(IGSSR-C)			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
EQ2: IntegGrdSecSurvRespC(IGSSR-C)	-	4.789	4.418	3.211	-	3.211	5.780	0.000	0.000	0.000	0.000	18.198
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**Note**

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**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).

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FY 2019 Base Funding in the amount of \$3.211 million supports completion of Integrated Ground Security, Surveillance and Response -Capability (IGSSR-C) software baseline. This funding also supports Critical Design Review (CDR), Developmental and Limited User Test (LUT) events, and modeling and simulation.

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

	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>
<b>Title:</b> IGSSR-C Design and Development	4.789	4.418	3.211	-	3.211
<b>Description:</b> Completes IGSSR-C design efforts and initiates software integration activities.					
<b>FY 2018 Plans:</b>					

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>
Continue development and implementation of all technical requirements. Completes Preliminary Design Review (PDR) and supports participation in Technical Support Operational Analysis (TSOA) events. Provides for Program Management Support (PMO) support and modeling and simulation efforts.					
<b><i>FY 2019 Base Plans:</i></b> FY 2019 Plans: Complete development and implementation of all technical requirements. Complete Critical Design Review (CDR) and supports Developmental Testing and Limited User Testing (LUT). Provides support to modeling and simulation efforts.					
<b><i>FY 2018 to FY 2019 Increase/Decrease Statement:</i></b> Change in funding level from FY 2018 to FY 2019 is due to completion of architecture framework and realignment of government Program Management Office (PMO) support funds from RDT&E to Operations and Maintenance Army (OMA).					
<b>Accomplishments/Planned Programs Subtotals</b>	4.789	4.418	3.211	-	3.211

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019 Base</b>	<b>FY 2019 OCO</b>	<b>FY 2019 Total</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• M90106: <i>Base</i> <i>Defense Systems (BDS)</i>	26.572	3.726	0.000	39.200	39.200	-	0.727	0.705	2.362	0.000	73.292

**Remarks**

**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 IGSSR-C was approved on 5 December 2016 by the MDA, which approved plans to leverage a Night Vision and Electronic Sensors Directorate (NVESD), Fort Belvoir, Virginia

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<p>delivery order to develop, integrate and test the Initial Capability (IC). Milestone C is planned for FY 2020 to align Ground-Based Operational Surveillance System - Expeditionary (GBOSS-E) and Tactical Security System (TSS) in order to gain programmatic efficiencies.</p> <p><b><u>E. Performance Metrics</u></b> N/A</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Army												Date: February 2018			
Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0605029A / Integrated Ground Security Surveillance Response Capability (IGSSR-C)				Project (Number/Name) EQ2 / IntegGrdSecSurvRespC(IGSSR-C)					
Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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 FPS : Fort Belvoir, VA	-	0.151	Dec 2016	0.309		-		-		-	0.000	0.460	-
IGSSR-C Independent Software Assessment	MIPR	Carnegie Mellon University Software Engineering Institute : Pittsburgh, PA	-	-		0.340		-		-		-	Continuing	Continuing	Continuing
Subtotal			-	0.151		0.649		-		-		-	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	C/CPFF	NVESD/MTEQ : Ft. Belvoir	-	1.873	Oct 2017	2.601		1.959	Feb 2019	-		1.959	Continuing	Continuing	Continuing
IGSSR-C Prototypes	C/CPFF	NVESD/MTEQ : Ft. Belvoir	-	1.865	Oct 2017	-		-		-		-	Continuing	Continuing	Continuing
Subtotal			-	3.738		2.601		1.959		-		1.959	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	-	0.505	Dec 2016	0.193		0.156	Feb 2019	-		0.156	Continuing	Continuing	Continuing
Subtotal			-	0.505		0.193		0.156		-		0.156	Continuing	Continuing	N/A

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<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
IGSSR-C Test and Evaluation	MIPR	ATEC : Aberdeen Proving Ground, MD	-	0.395	Dec 2016	0.230		0.746	Feb 2019	-		0.746	Continuing	Continuing	Continuing
IGSSR-C Modeling and Simulation	MIPR	Night Vision and Electronic Sensors Directorate : Ft. Belvoir, VA	-	-		0.745		0.350	Feb 2019	-		0.350	Continuing	Continuing	Continuing
<b>Subtotal</b>			-	0.395		0.975		1.096		-		1.096	Continuing	Continuing	N/A

  

	<b>Prior Years</b>	<b>FY 2017</b>		<b>FY 2018</b>		<b>FY 2019 Base</b>		<b>FY 2019 OCO</b>		<b>FY 2019 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	-	4.789		4.418		3.211		-		3.211	Continuing	Continuing	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2019 Army</b>			<b>Date:</b> February 2018		
<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>	

Event Name	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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
IGSSR-C Risk Reduction	Risk Reduction																											
IGSSR-C Milestone B																												
IGSSR-C Development/Test/Integration																												
IGSSR-C Milestone C																												
IGSSR-C Limited Deployment (LD)																												
IGSSR-C Full Deployment Decision																												
IGSSR-C Full Deployment																												



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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2019 Army			<b>Date:</b> February 2018
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
IGSSR-C Risk Reduction	4	2015	4	2017
IGSSR-C Milestone B	4	2017	4	2017
IGSSR-C Development/Test/Integration	1	2018	1	2020
IGSSR-C Milestone C	1	2020	1	2020
IGSSR-C Limited Deployment (LD)	1	2020	1	2021
IGSSR-C Full Deployment Decision	1	2021	1	2021
IGSSR-C Full Deployment	1	2021	1	2025