

# UNCLASSIFIED

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2016 United States Special Operations Command **Date:** February 2015

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>					<b>R-1 Program Element (Number/Name)</b> PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	21.052	5.195	5.286	5.302	-	5.302	5.456	5.540	6.395	6.502	Continuing	Continuing
S400A: <i>Distributed Common Ground/Surface Systems</i>	21.052	5.195	5.286	5.302	-	5.302	5.456	5.540	6.395	6.502	Continuing	Continuing

## A. Mission Description and Budget Item Justification

This program element is part of the Military Intelligence Program (MIP) that provides for the identification, development, and testing of the Distributed Common Ground/Surface System Special Operations Forces (DCGS-SOF). The mission tailored infrastructure interconnects the warfighter and sensor data to find and fix enemy combatants and/or terrorists. The DCGS-SOF program is a network-enabled, interoperable construct allowing continual, unimpeded sharing of intelligence data, information and services within SOF and between the Services, other national intelligence agencies, combatant commands and Multi-National partners in support of a Joint Task Force. It connects the SOF warfighter with essential intelligence information and provides situational awareness information to SOF leadership at all echelons. The primary functions of DCGS-SOF are to conduct processing, exploitation and dissemination (PED) for all SOF Intelligence Surveillance and Reconnaissance (ISR) sensors, permit the collection of SOF data from collection sensors and intelligence databases, share across the DCGS Integration Backbone and provide timely, tailored, all-source, fused intelligence reporting to the SOF warfighter. This program will employ non-development commercial and government off-the-shelf hardware and software and will leverage from existing technology to the greatest degree possible.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>
Previous President's Budget	5.195	5.286	5.340	-	5.340
Current President's Budget	5.195	5.286	5.302	-	5.302
Total Adjustments	-	-	-0.038	-	-0.038
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Departmental Economic Assumption	-	-	-0.038	-	-0.038

## Change Summary Explanation

Funding:

FY 2014: None.

**UNCLASSIFIED**

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 United States Special Operations Command		Date: February 2015
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	
0400: Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development	PE 0305208BB / Distributed Common Ground/Surface Systems	
FY 2015: None.		
FY 2016: Decrease of -\$0.038 million is due to Departmental economic assumption decrease.		
Schedule: None.		
Technical: None.		

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>				Project (Number/Name) S400A / <i>Distributed Common Ground/Surface Systems</i>			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
S400A: <i>Distributed Common Ground/Surface Systems</i>	21.052	5.195	5.286	5.302	-	5.302	5.456	5.540	6.395	6.502	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

This project is part of the Military Intelligence Program (MIP) that provides for the identification, development, and testing of the Distributed Common Ground/Surface System Special Operations Forces (DCGS-SOF). The mission tailored infrastructure interconnects the warfighter and sensor data to find and fix enemy combatants and/or terrorists. The DCGS-SOF program is a network-enabled, interoperable construct allowing continual, unimpeded sharing of intelligence data, information and services within SOF and between the Services, other national intelligence agencies, combatant commands and Multi-National partners in support of a Joint Task Force. It connects the SOF warfighter with essential intelligence information and provides situational awareness information to SOF leadership at all echelons. The primary functions of DCGS-SOF are to conduct processing, exploitation and dissemination (PED) for all SOF Intelligence Surveillance and Reconnaissance (ISR) sensors, permit the collection of SOF data from collection sensors and intelligence databases, share across the DCGS Integration Backbone and provide timely, tailored, all-source, fused intelligence reporting to the SOF warfighter. This program will employ non-development commercial and government off-the-shelf hardware and software and will leverage from existing technology to the greatest degree possible.

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

	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>
<b>Title:</b> DCGS	5.195	5.286	5.302
<b>FY 2014 Accomplishments:</b> Integrated emerging technologies and capabilities for all source information fusion and initial integration of technology to enable disconnected operations into the DCGS-SOF baseline, continued test and evaluation of these technologies, established a standing user working group to assist in the design and development of a new User Interface (UI). Began initial transition of legacy capability into DCGS-SOF baseline, participated in SOCOM's Trident Spectre demonstration, NATO Unified Vision 14, OSDI's Enterprise Challenge and conducted DCG-SOF limited objective events.			
<b>FY 2015 Plans:</b> Continue to integrate emerging technologies and capabilities for all source information fusion, continue integration of technology to enable disconnected operations into the DCGS-SOF baseline, continue UI functionality and capability upgrades, continue test and evaluation of these technologies, continue transition effort of legacy capability, continue DCGS-SOF limited objective events, and participate in Trident Spectre and Enterprise Challenge demonstrations.			
<b>FY 2016 Plans:</b> Continues to integrate emerging technologies and capabilities for all source information fusion, continues integration of technology to enable disconnected operations into the DCGS-SOF baseline, continues test and evaluation of these technologies, final			

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2016 United States Special Operations Command										<b>Date:</b> February 2015	
<b>Appropriation/Budget Activity</b> 0400 / 7				<b>R-1 Program Element (Number/Name)</b> PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>				<b>Project (Number/Name)</b> S400A / <i>Distributed Common Ground/Surface Systems</i>			

  

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>			<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>
transition effort of legacy capability, continues DCGS-SOF limited objective events, Trident Sectre participation, Unified Vision 16, and Enterprise Challenge demonstrations.					
<b>Accomplishments/Planned Programs Subtotals</b>			5.195	5.286	5.302

  

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016 Base</b>	<b>FY 2016 OCO</b>	<b>FY 2016 Total</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• PROC1: <i>Distributed Common Ground/Surface System</i>	14.906	17.323	14.964	-	14.964	17.491	13.094	12.775	13.139	Continuing	Continuing

**Remarks**

  

**D. Acquisition Strategy**

• DCGS-SOF will partner within DOD and with other government agencies to integrate mature technologies into the SOF information enterprise and enable more agile access to and sharing of data and services to meet SOF-peculiar documented requirements. The technology will allow for seamless integration with DOD, interagency, and coalition ISR tactical PED systems. The DCGS-SOF program office employs an agile development process with capability insertions into the development baseline for assessment and future deployment into the operational baseline. All development requirements are prioritized through the DCGS Requirements Working Group (DRWG) chaired by J2. Once approved the requirements are evaluated and scheduled by engineering. Using this methodology allows capabilities to be inserted in a fast and agile manner based on user requirements and priorities. All evolutionary technology insertions (ETIs) in the R-4 schedule are based on current program office projections. If requirement priorities change based on the DRWG, the ETI and version capabilities identified may change.

  

**E. Performance Metrics**

N/A

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 United States Special Operations Command												Date: February 2015			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 0305208BB / Distributed Common Ground/Surface Systems				Project (Number/Name) S400A / Distributed Common Ground/ Surface Systems					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Distributed Common Ground System (DCGS) Capabilities Modernization	Various	Various : Various	11.433	2.050	Jan 2014	0.750	Jan 2015	0.728	Jan 2016	-		0.728	Continuing	Continuing	-
Development and Integration	C/FFP	SITEC : Various	0.690	1.085	Dec 2013	1.959	Dec 2014	1.995	Mar 2016	-		1.995	Continuing	Continuing	-
Independent Verification and Validation	MIPR	MITRE : Bedford, MA	0.547	0.280	Oct 2013	0.278	Oct 2014	0.280	Oct 2015	-		0.280	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	1.788	-		-		-		-		-	-	1.788	-
Subtotal			14.458	3.415		2.987		3.003		-		3.003	-	-	-
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
DCGS Support	C/FFP	SITEC : Various	0.914	0.350	Dec 2013	0.883	Dec 2014	0.900	Mar 2016	-		0.900	Continuing	Continuing	-
Prior Year Funding - Completed Efforts	Various	Various : Various	0.576	-		-		-		-		-	-	0.576	-
Subtotal			1.490	0.350		0.883		0.900		-		0.900	-	-	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
DCGS Test and Evaluation	MIPR	SPAWAR : Charleston, SC	1.210	0.230	Oct 2013	0.234	Oct 2014	0.239	Oct 2015	-		0.239	Continuing	Continuing	-
DCGS Independent Verification and Validation	MIPR	MITRE : Bedford, MA	1.702	0.280	Oct 2013	0.278	Oct 2014	0.280	Oct 2015	-		0.280	Continuing	Continuing	-
Interoperability Support	MIPR	JITC : Ft Huachuca, AZ	0.712	0.320	Jan 2014	0.177	Jan 2015	0.180	Jan 2016	-		0.180	Continuing	Continuing	-
Interoperability Testing	C/FFP	SITEC : Various	1.480	0.600	Dec 2013	0.727	Dec 2014	0.700	Mar 2016	-		0.700	Continuing	Continuing	-

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2016 United States Special Operations Command												<b>Date:</b> February 2015		
<b>Appropriation/Budget Activity</b> 0400 / 7						<b>R-1 Program Element (Number/Name)</b> PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>				<b>Project (Number/Name)</b> S400A / <i>Distributed Common Ground/Surface Systems</i>				

  

Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
<b>Subtotal</b>			5.104	1.430		1.416		1.399		-		1.399	-	-	-

  

	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	21.052	5.195	5.286	5.302	-	5.302	-	-	-

  

**Remarks**

**UNCLASSIFIED**

**Exhibit R-4, RDT&E Schedule Profile:** PB 2016 United States Special Operations Command **Date:** February 2015

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>	<b>Project (Number/Name)</b> S400A / <i>Distributed Common Ground/Surface Systems</i>
--	---	--

FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
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

DCGS v4.X OT (Redesigned User Interface, DIB 4.X, Distributed Data Framework, Enterprise Messaging, SIGINT Data Integration, Combat Assessment Disconnect/ Mobile Capability)	[REDACTED]																											
DCGS v5.X OT (User ineterface enhancements, Extend enterprise capability to the SSEP, Production Build For Disconnect/ Mobile, Additional Data Sources, Services, Analytical Tools)	[REDACTED]																											
DCGS v6.X OT (User interface enhancements, All Source Information Fusion enhancements)	[REDACTED]																											
Trident Spectre, DCGS Limited Objective Events & Enterprise Challenge - FY 2014- FT 2020	[REDACTED]																											
Unified Vision - FY 2016/FY 2018/FY 2020	[REDACTED]																											

# UNCLASSIFIED

**Exhibit R-4A, RDT&E Schedule Details:** PB 2016 United States Special Operations Command **Date:** February 2015

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0305208BB / <i>Distributed Common Ground/Surface Systems</i>	<b>Project (Number/Name)</b> S400A / <i>Distributed Common Ground/Surface Systems</i>
--	---	--

## Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
DCGS v4.X OT (Redesigned User Interface, DIB 4.X, Distributed Data Framework, Enterprise Messaging, SIGINT Data Integration, Combat Assessment Disconnect/Mobile Capability)	4	2014	4	2016
DCGS v5.X OT (User ineterface enhancements, Extend enterprise capability to the SSEP, Production Build For Disconnect/Mobile, Additional Data Sources, Services, Analytical Tools)	4	2016	4	2018
DCGS v6.X OT (User interface enhancements, All Source Information Fusion enhancements)	4	2018	4	2020
Trident Spectre, DCGS Limited Objective Events & Enterprise Challenge - FY 2014- FT 2020	1	2014	4	2020
Unified Vision - FY 2016/FY 2018/FY 2020	1	2016	4	2020