| **Exhibit R-2**, **RDT&E Budget Item Justification:** PB 2014 Defense Information Systems Agency | | | | | | | | | | **DATE:** April 2013 | |

APPROPRIATION/BUDGET ACTIVITY
0400: *Research, Development, Test & Evaluation, Defense-Wide*
BA 7: *Operational Systems Development*

R-1 ITEM NOMENCLATURE
PE 0305208K: *Distributed Common Ground/Surface Systems*

COST ($ in Millions)	All Prior Years	FY 2012	FY 2013#	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	33.853	3.154	3.247	3.348	-	3.348	3.403	3.403	3.441	3.494	Continuing	Continuing
NF1: *Distributed Common Ground/Surface Systems*	33.853	3.154	3.247	3.348	-	3.348	3.403	3.403	3.441	3.494	Continuing	Continuing

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

As the sole joint interoperability certification agent, the Joint Interoperability Test Command established and maintains a Distributed Development and Test Enterprise for the Department of Defense (DoD) Distributed Common Ground/Surface System (DCGS) program, as directed by the Office of the Under Secretary of Defense (Intelligence). DCGS is an integral and critical component of the overall DoD Intelligence, Surveillance, and Reconnaissance interoperability and data integration strategy which provides world-wide capabilities to receive, process, exploit, and disseminate data from airborne and national reconnaissance sensors/platforms and commercial sources.

B. Program Change Summary ($ in Millions)

	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	3.154	3.247	3.384	-	3.384
Current President's Budget	3.154	3.247	3.348	-	3.348
Total Adjustments	0.000	0.000	-0.036	-	-0.036
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustment	-	-	-0.036	-	-0.036

Change Summary Explanation
The FY 2014 decrease of -$0.036 supports higher Agency priorities.

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Information Systems Agency			DATE: April 2013								

APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*				R-1 ITEM NOMENCLATURE PE 0305208K: *Distributed Common Ground/Surface Systems*			PROJECT NF1: *Distributed Common Ground/Surface Systems*				

COST ($ in Millions)	All Prior Years	FY 2012	FY 2013[#]	FY 2014 Base	FY 2014 OCO [##]	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
NF1: *Distributed Common Ground/Surface Systems*	33.853	3.154	3.247	3.348	-	3.348	3.403	3.403	3.441	3.494	Continuing	Continuing
Quantity of RDT&E Articles												

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

[##] The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

Joint Interoperability Test Command (JITC) coordinates with the Military Services and Defense Intelligence Agencies to conduct Joint/Distributed Common Ground/Surface System (DCGS) testing and analysis, including event coordination, configuration, instrumentation and integration functions on the Distributed Development and Test Enterprise (DDTE). Under the DCGS Governance, this effort, referred to as the DCGS Test and Evaluation (T&E) Focus Team (FT), is composed of three parts: the DDTE Focus Group, providing and sustaining a distributed development network; the Strategy Focus Group, looking at current and future net-enabled enterprise T&E methods; and the Execution Focus Group, which leverages the Strategy Focus Group's methodologies in executing DCGS Enterprise assessment events, such as the annual DCGS demonstration, ENTERPRISE CHALLENGE. These efforts improve systems engineering and T&E throughout all phases of the DCGS life-cycle, resulting in improved capabilities to share net-centric data and services between the DCGS Programs of Record (PoRs) and the overarching Defense Intelligence Information Enterprise (DI2E).

Operates and maintains the DDTE, providing DCGS PoRs a virtual operationally relevant assessment environment maintaining connectivity between Service facilities, National Agency capabilities, and Coalition partners. DDTE allows robust integration of modeling and simulation T&E capabilities across Joint DCGS events without introducing vulnerabilities to operational Command and Control networks and has enabled improvements in systems engineering, instrumentation and T&E throughout all phases of the DCGS life cycle.

DCGS PoRs and Coalition partners use the DDTE network, which supports the net-centric maturity assessment of the DCGS Enterprise under the DCGS Governance, to integrate architecture, standards, and capabilities for implementation of the DCGS Integration Backbone and support the migration to net-centricity, including DCGS Enterprise services for the Military Departments, DCGS-Special Operations Forces and the DCGS Intelligence Community. National Agency capabilities supporting DCGS include Geospatial Intelligence, Signals Intelligence, Measurement and Signature Intelligence and Human Intelligence, which are integrated and tested in the DDTE domain.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
Title: Distributed Common Ground/Surface Systems (DCGS) *FY 2012 Accomplishments:* As part of the DCGS Governance, the Chair of the DCGS T&E FT continued to support DDTE and DI2E enhanced functionality with T&E capability and ability to include more Coalition partners through data sharing. Provided Enterprise capabilities in	3.154	3.247	3.348

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Information Systems Agency		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208K: *Distributed Common Ground/Surface Systems*	PROJECT NF1: *Distributed Common Ground/Surface Systems*	

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
a "storefront" context with web services that are visible, accessible, understandable, and interoperable (VAUSI) and can be implemented by DCGS PoRs. Conducted six DCGS Enterprise Assessment events that measured the net-centric maturity of the DCGS Enterprise in accordance with the Enterprise Maturity Model (EMM) criteria, as defined by the DCGS community and periodically updated to keep pace with technological advances. Supported both Enterprise Assessment and developmental test activities between PoRs, National Agencies, and Coalition nodes to refine and demonstrate enhanced capabilities for sharing of net-centric data and Enterprise web services. Continued development and instrumentation for data collection and testing support on the 15 DCGS network domains and enclaves and leveraged existing PoR operational testing and interoperability testing/certification efforts as data collection opportunities for Enterprise Assessment. **FY 2013 Plans:** Continue supporting DDTE and providing enhanced automated assessment capabilities of net-centric data and web services. Continue to determine the extent the DCGS data assets and services comply with the VAUSI metrics, and to ensure these metrics are captured by the EMM. Provide Enterprise T&E support by continuing to measure the net-centric maturity of the DCGS Enterprise in accordance with the EMM criteria by conducting Enterprise-level assessments for the DCGS PoRs, National Agencies and Coalition Partners. Continuing to develop instrumentation for data collection and testing support on the 15 DCGS network domains and enclaves. The increase of +$0.093 from FY 2012 to FY 2013 is due to the net effect of savings to support the Secretary of Defense initiative on improving DoD business operations and adjustments for inflation. **FY 2014 Plans:** Will continue to support DDTE and provide enhanced functionality with expanding T&E capability, with a focus on increasingly automated evaluations of net-centric data and web services. To further DCGS Enterprise capabilities, will determine the extent they comply with established VAUSI standards that make them available and accessible in a "storefront" that enhances the sharing of net-centric data and services. Will host or provide access to a T&E framework that provides validated, automated test tools for compliance testing, and will support reciprocity with other T&E organizations using accepted T&E environments and tools to provide data for DCGS Enterprise maturity assessments. Enterprise T&E support will continue to include Enterprise-level assessment events for the DCGS PoRs, National Agencies and Coalition Partners. Will continue development and instrumentation for data collection and testing support on the 15 DCGS network domains and enclaves. These efforts will continue to be measured by the EMM. The increase of +$0.101 from FY 2013 to FY 2014 is due to the net effect of adjustments for inflation, program cost growth and transfers to support higher Agency priorities.			
Accomplishments/Planned Programs Subtotals	3.154	3.247	3.348

Exhibit R-2A, RDT&E Project Justification: PB 2014 Defense Information Systems Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208K: *Distributed Common Ground/Surface Systems*	PROJECT NF1: *Distributed Common Ground/Surface Systems*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Effective FY 2013, a T&E Mission Support Services (MSS) cost plus and firm fixed price contract will provide T&E support by performing a wide range of non-personal services to encompass testing, scientific, engineering, logistic, administrative, and ancillary support of the DISA T&E missions.

E. Performance Metrics

The T&E Focus Team (FT) performs a minimum of three DCGS Enterprise assessments per year. At the end of the year assessment results are consolidated into T&E FT input to the State of the Enterprise (SoE) Report. A comparison of multi-year SoE Reports shows measurable DCGS Enterprise net-centric maturity progress. The T&E FT will also leverage Joint Interoperability Certification testing to support the evaluation of DCGS Enterprise maturity. Of the six DCGS PoR systems, three hold current Joint Staff, Command, Control, Communications, & Computers/Cyber (J6) Interoperability (IOP) Certifications, while the other three PoRs remain in prototype status, which precludes them from completing Joint IOP Certifications. Efforts will continue to collect data on these emerging systems towards overall J6 IOP Certification as they mature. Due to increased automation and advances in Enterprise maturity, the T&E FT increased the number of net-centric evaluations from approximately 150 data assets and 120 web services in 2011 to over 400 data assets and over 300 web services in 2012. This effort provides the basis for the DCGS Enterprise Assessment, allowing the Office of the Under Secretary of Defense (Intelligence) to measure the level of maturity of the DCGS Enterprise supporting the DCGS Governance.

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2014 Defense Information Systems Agency												**DATE:** April 2013		
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*							**R-1 ITEM NOMENCLATURE** PE 0305208K: *Distributed Common Ground/Surface Systems*					**PROJECT** NF1: *Distributed Common Ground/Surface Systems*		

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
In-House Contracts	Various	N/A:N/A	16.350	0.766	Oct 2011	0.974	Oct 2012	1.004	Oct 2013	-		1.004	Continuing	Continuing	Continuing
		Subtotal	16.350	0.766		0.974		1.004		0.000		1.004			

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Engineering/Technical Services 1	C/T&M	Interop:Ft. Hua, AZ	3.247	0.443	Oct 2011	0.000		-		-		-	0.000	3.690	3.690
Engineering/Technical Services 2	C/T&M	NGMS:Ft. Hua, AZ	11.078	1.511	Oct 2011	0.000		-		-		-	0.000	12.589	12.589
Engineering/Technical Services 3	C/T&M	NGIT:Ft. Hua, AZ	3.178	0.434	Oct 2011	0.000		-		-		-	0.000	3.612	3.612
TBD	TBD	TBD:TBD	0.000	-		2.273	Oct 2012	2.344	Oct 2013	-		2.344	Continuing	Continuing	Continuing
		Subtotal	17.503	2.388		2.273		2.344		0.000		2.344			

	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	33.853	3.154	3.247	3.348	0.000	3.348			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Defense Information Systems Agency		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208K: *Distributed Common Ground/Surface Systems*	PROJECT NF1: *Distributed Common Ground/Surface Systems*

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	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 T&E IPT																												
Connectivity to Other Testbeds & Test Event Conduct																												
Operation and Maintenance Support																												

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Defense Information Systems Agency				DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*		R-1 ITEM NOMENCLATURE PE 0305208K: *Distributed Common Ground/Surface Systems*		PROJECT NF1: *Distributed Common Ground/Surface Systems*	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
DCGS T&E IPT	1	2012	4	2018
Connectivity to Other Testbeds & Test Event Conduct	1	2012	4	2018
Operation and Maintenance Support	1	2012	4	2018