Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army											DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*					R-1 ITEM NOMENCLATURE PE 0305208A: *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	-	31.401	40.876	27.622	-	27.622	29.986	26.285	26.571	27.023	Continuing	Continuing
956: *Distributed Common Ground System (MIP)*	-	31.401	40.876	27.622	-	27.622	18.857	0.431	0.000	0.000	Continuing	Continuing
D07: *DCGS-A Common Modules (MIP)*	-	0.000	0.000	0.000	-	0.000	11.129	25.854	26.571	27.023	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

Note

Project D07 was created to clearly delineate between the DCGS-A Increment 1 and Increment 2 development efforts beginning in FY15. D07 does not represent a New Start program; the funding in D07 has previously been included in Project 956.

A. Mission Description and Budget Item Justification

Distributed Common Ground System - Army (DCGS-A) is the Intelligence, Surveillance and Reconnaissance (ISR) System of Systems (SoS) for Joint, Interagency, Allied, Coalition, and National data analysis, sharing and collaboration. The core functions of DCGS-A are: the vertical and horizontal synchronization of ISR Processing, Exploitation and Dissemination (PED) efforts; operations in a networked environment at multiple security levels; the control of select Army and joint sensor systems; the fusion of all acquired data and information, and distribution of relevant red (threat), gray (non-aligned), and environmental (weather and terrain) information; and providing the Warfighters' early warning and targeting capability. DCGS-A provides a single integrated ISR ground processing system composed of common components that are interoperable with sensors, other information sources, all Warfighting Functions, and the Defense Information & Intelligence Enterprise (DI2E). DCGS-A is fielded in Fixed and Mobile configurations emphasizing the use of reach and split based operations by improving accessibility of data in order to reduce forward deployed footprint. As enhanced capabilities are developed and tested, annual software releases are integrated into Army Common/commodity hardware and fielded to units IAW the Army Force Generation (ARFORGEN) process.

The Army Acquisition Executive designated to PEO IEW&S and DCGS-A as the Command Post Computing Environment (CPCE) Lead. As such, DCGS-A is defining the architecture to fit within the Common Operating Environment (COE) as described by the ASA(ALT) COE Implementation Plan. This is in accordance with the G-3/5/7 priority to align all Army networks, procurements, and enhancements under one COE and one vision leveraging intelligence community investments.

DCGS-A consolidates, enhances, and modernizes the Tasking, Processing, Exploitation, and Dissemination (TPED) capabilities formerly found in nine Army intelligence programs of record and two Quick Reaction Capabilities. DCGS-A provides these technologically advanced PED capabilities in tailored and scalable mobile and fixed configurations in all maneuver and maneuver support units from Company Intelligence Support Team to Army Service Component Command, and in select maneuver sustainment units battalion and above. The program also will develop software packages to be embedded in mission command and other select systems to provide required ISR/analytic capabilities. DCGS-A is a key component of the DoD ISR Task Force modernization efforts and a critical Army priority.

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army	DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0305208A: *Distributed Common Ground/Surface Systems*

DCGS-A software will be tailored by echelon and scalable to each unit's mission. DCGS-A provides commanders and staffs the ability to maintain an accurate and up to date understanding of the operational environment. DCGS-A's contributions to commanders' visualization and situational awareness, rapid planning, and the synchronization of all warfighting functions, enable Army units to operate within the enemy's decision cycle. This capability enhances tactical and operational maneuver and the conduct of full spectrum operations across the range of military operations from humanitarian to major combat operations.

The DCGS-A configurations range from laptops to systems integrated in tactical shelters and mounted on tactical vehicles to large commodity servers operating in a Cloud Processing Architecture. Main Cloud nodes are placed in data centers strategically located across the globe, while tactical edge Cloud nodes will be integrated within select existing equipment currently on units' Modified Tables of Organization & Equipment (MTOE). The fundamental intent and tenet of this approach is to reduce forward deployed equipment/footprint by co-locating the advanced analytics capabilities within the DCGS-A baseline with the regional data centers, where the data is stored. This infrastructure consolidation simultaneously reduces processor and communications requirements in tactical units by limiting the number of large data files transported across tactical communications systems. The first DCGS-A Cloud node reached its initial operating capability in Operation Enduring Freedom (OEF) in FY11. Following a successful operational assessment and Milestone C in 2QFY12/Full Deployment Decision in 1QFY13, DCGS-A Increment 1 Release 1 Software Baseline capability will be deployed throughout the Army.

FY14 Base funding in the amount of $27.622 million will be used for the development and testing of the DCGS-A Increment 1 Software Releases as well as the continued development and testing of the of the Command Post Computing Environment (CPCE) as it fits into the Army's overarching Common Operating Environment (COE) construct. The COE has been directed by the ASA(ALT) and concurred by the Army G3/5/7 as a priority effort to align all Army networks, procurements, and enhancements under one COE vision. Funds used for efforts associated with the develo

B. Program Change Summary ($ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	31.649	40.876	25.655	-	25.655
Current President's Budget	31.401	40.876	27.622	-	27.622
Total Adjustments	-0.248	0.000	1.967	-	1.967
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-0.248	-	1.967	-	1.967

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/Surface Systems*	PROJECT 956: *Distributed Common Ground System (MIP)*	

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
956: *Distributed Common Ground System (MIP)*	-	31.401	40.876	27.622	-	27.622	18.857	0.431	0.000	0.000	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

Note

Beginning in FY15, a portion of the Project 956 funding was shifted to Project D07 in order to clearly delineate between DCGS-A Increment 1 and Increment 2 development efforts. The overall DCGS-A development program is not expected to end in 2016.

A. Mission Description and Budget Item Justification

Distributed Common Ground System - Army (DCGS-A) is the Intelligence, Surveillance and Reconnaissance (ISR) System of Systems (SoS) for Joint, Interagency, Allied, Coalition, and National data analysis, sharing and collaboration. The core functions of DCGS-A are: the vertical and horizontal synchronization of ISR Processing, Exploitation and Dissemination (PED) efforts; operations in a networked environment at multiple security levels; the control of select Army and joint sensor systems; the fusion of all acquired data and information, and distribution of relevant red (threat), gray (non-aligned), and environmental (weather and terrain) information; and providing the Warfighters' early warning and targeting capability. DCGS-A provides a single integrated ISR ground processing system composed of common components that are interoperable with sensors, other information sources, all Warfighting Functions, and the Defense Information & Intelligence Enterprise (DI2E). DCGS-A is fielded in Fixed and Mobile configurations emphasizing the use of reach and split based operations by improving accessibility of data in order to reduce forward deployed footprint. As enhanced capabilities are developed and tested, annual software releases are integrated into Army Common/commodity hardware and fielded to units IAW the Army Force Generation (ARFORGEN) process.

The Army Acquisition Executive designated to PEO IEW&S and DCGS-A as the Command Post Computing Environment (CPCE) Lead. As such, DCGS-A is defining the architecture to fit within the Common Operating Environment (COE) as described by the ASA(ALT) COE Implementation Plan. This is in accordance with the G-3/5/7 priority to align all Army networks, procurements, and enhancements under one COE and one vision leveraging intelligence community investments.

DCGS-A consolidates, enhances, and modernizes the Tasking, Processing, Exploitation, and Dissemination (TPED) capabilities formerly found in nine Army intelligence programs of record and two Quick Reaction Capabilities. DCGS-A provides these technologically advanced PED capabilities in tailored and scalable mobile and fixed configurations in all maneuver and maneuver support units from Company Intelligence Support Team to Army Service Component Command, and in select maneuver sustainment units battalion and above. The program also will develop software packages to be embedded in mission command and other select systems to provide required ISR/analytic capabilities. DCGS-A is a key component of the DoD ISR Task Force modernization efforts and a critical Army priority.

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/Surface Systems*	PROJECT 956: *Distributed Common Ground System (MIP)*

DCGS-A software will be tailored by echelon and scalable to each unit's mission. DCGS-A provides commanders and staffs the ability to maintain an accurate and up to date understanding of the operational environment. DCGS-A's contributions to commanders' visualization and situational awareness, rapid planning, and the synchronization of all warfighting functions, enable Army units to operate within the enemy's decision cycle. This capability enhances tactical and operational maneuver and the conduct of full spectrum operations across the range of military operations from humanitarian to major combat operations.

The DCGS-A configurations range from laptops to systems integrated in tactical shelters and mounted on tactical vehicles to large commodity servers operating in a Cloud Processing Architecture. Main Cloud nodes are placed in data centers strategically located across the globe, while tactical edge Cloud nodes will be integrated within select existing equipment currently on units' Modified Tables of Organization & Equipment (MTOE). The fundamental intent and tenet of this approach is to reduce forward deployed equipment/footprint by co-locating the advanced analytics capabilities within the DCGS-A baseline with the regional data centers, where the data is stored. This infrastructure consolidation simultaneously reduces processor and communications requirements in tactical units by limiting the number of large data files transported across tactical communications systems. The first DCGS-A Cloud node reached its initial operating capability in Operation Enduring Freedom (OEF) in FY11. Following a successful operational assessment and Milestone C in 2QFY12/Full Deployment Decision in 1QFY13, DCGS-A Increment 1 Release 1 Software Baseline capability will be deployed throughout the Army.

FY14 Base funding in the amount of $27.622 million will be used for the development and testing of the DCGS-A Increment 1 Software Releases as well as the continued development and testing of the of the Command Post Computing Environment (CPCE) as it fits into the Army's overarching Common Operating Environment (COE) construct. The COE has been directed by the ASA(ALT) and concurred by the Army G3/5/7 as a priority effort to align all Army networks, procurements, and enhancements under one COE vision. Funds used for efforts associated with the development of the CPCE/COE will include the continued merger/collapse of capabilities across multiple Battlefield Functional Areas (BFAs) and the consolidation of hardware used across the BFAs. Funds used for efforts associated with the development of DCGS-A software releases will include continued security enhancements in order to achieve Protection Level (PL) 2 and PL 3 compliance, as well as further investment into capabilities and widget development supporting All Source Intelligence, Human Intelligence (HUMINT), Signals Intelligence (SIGINT), Geospatial Intelligence (GEOINT) and emerging architectural and infrastructure enhancements. The DCGS-A test program will show a growth from previous years. The program office will be funding and conducting multiple test events for two distinct software releases. Testing activities requiring these funds will include Developmental Testing (DT)for Release 3; Operational Testing (OT) for Release 2 and Operational Test Prep for Release 3; Participation in Network Integration Evaluation and Exercises such as Eempire Challence and ULCHI Freedom; and Certification tests for each software release. The result of these activities all serve to prove out the capabilities in Increment 1 Release 2 and Release 3, and COE Version 2 (COE V2) and COE V3.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Design and Development of DCGS-A enterprise level net-centric architecture	3.164	26.712	13.979
Articles:	0	0	
Description: Continue design and development of DCGS-A enterprise level net-centric architecture to include: Development & Integration of DCGS-A Software; DT/OT, Mobile Basic Contract Deliverables, and Program Management support costs. Global Unified Data Environment (Cloud) - development - to create direct Data Ingest of varying intelligence data types and development of analytical tools to exploit single -INT data, further enhancing Cloud Enterprise Account Management load distribution of			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/Surface Systems*	PROJECT 956: *Distributed Common Ground System (MIP)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
enterprise level complex searches. Development of Cloud to Cloud Data Synchronization technologies and enhanced data management applications between Cloud and Edge nodes. ***FY 2012 Accomplishments:*** Continue and complete design and development of DCGS-A enterprise level net-centric architecture to include: Development & Integration of DCGS-A Software; IOT&E, Developmental Testing, DCGS-A and Program Management support costs ***FY 2013 Plans:*** Continue design and development of DCGS-A enterprise level net-centric architecture to include: Development & Integration of DCGS-A Software; DT/OT and Program Management support costs. Global Unified Data Environment (Cloud) - development - to create direct Data Ingest of varying intelligence data types and development of analytical tools to exploit single -INT data, further enhancing Cloud Enterprise Account Management load distribution of enterprise level complex searches. Development of Cloud to Cloud Data Synchronization technologies and enhanced data management applications between Cloud and Edge nodes. ***FY 2014 Plans:*** Continue design and development of DCGS-A enterprise level net-centric architecture to include: Development & Integration of DCGS-A Software; DT/OT and Program Management support costs. Global Unified Data Environment (Cloud) - development - to create direct Data Ingest of varying intelligence data types and development of analytical tools to exploit single -INT data, further enhancing Cloud Enterprise Account Management load distribution of enterprise level complex searches. Development of Cloud to Cloud Data Synchronization technologies and enhanced data management applications between Cloud and Edge nodes. COE convergence of Ops and Intel capabilities.			
Title: Cloud development ***Articles:*** ***Description:*** Global Unified Data Environment (Cloud) development - creates near real-time multi-intelligence analytics environment, extends access and reduces analytic response time. ***FY 2012 Accomplishments:*** Global Unified Data Environment (Cloud) - development - to create near real time multi-intelligence analytics environment, extend Cloud Enterprise access and reduces Intelligence Product production time.	21.500 0	0.000	0.000
Title: Matrix Support including SIL S/W Support ***Articles:*** ***Description:*** Matrix Support including SIL S/W Support ***FY 2013 Plans:***	0.000	4.554 0	4.082

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/Surface Systems*	PROJECT 956: *Distributed Common Ground System (MIP)*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Matrix Support including SIL S/W Support ***FY 2014 Plans:*** Matrix Support including SIL S/W Support			
Title: Army and Joint Testing/Development/Operational Test Support ***Articles:*** ***Description:*** Ongoing Army and Joint interoperability testing and evaluation to include Operational Assessment (Network Integration Evaluation (NIE) Operational Assessment), JITC, and Operational Test ***FY 2012 Accomplishments:*** Ongoing Army and Joint interoperability testing and evaluation to include Operational Assessment (NIE Operational Assessment), JITC, and Operational Test ***FY 2013 Plans:*** Ongoing Army and Joint interoperability testing and evaluation to include Operational Assessment (NIE Operational Assessment), JITC, and Operational Test ***FY 2014 Plans:*** Ongoing Army and Joint interoperability testing and evaluation to include NIE events, DCGS Software Baseline Operational Test, Common Operational Environment Command Post Computing Environment; Unified View, Ulchi Freedom Guardian, Enterprise Resolve Operational Assessment; Army Interoperablity Certification Test with JITC and CTSF.	4.551 0	6.507 0	8.520
Title: Support Costs and Management Services ***Articles:*** ***Description:*** Funding is provided for the following effort/Project Management Support ***FY 2012 Accomplishments:*** Provide matrix support and PMO efforts ***FY 2013 Plans:*** Provide matrix support and PMO efforts ***FY 2014 Plans:*** Provide matrix support and PMO efforts.	2.186 0	3.103 0	1.041
Accomplishments/Planned Programs Subtotals	31.401	40.876	27.622

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/Surface Systems*	PROJECT 956: *Distributed Common Ground System (MIP)*

C. Other Program Funding Summary ($ in Millions)

Line Item	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
• DCGS-A (MIP) Procurement: *BZ7316*	207.548	274.362	267.214		267.214	285.167	322.399	297.200	302.252	Continuing	Continuing
• DCGS-A Increment 2 RDTE: *0305208A / D07*						11.067	25.665	26.332	26.765	Continuing	Continuing

Remarks

D. Acquisition Strategy

The Distributed Common Ground System-Army (DCGS-A) program was created in response to the Department of Defense (DoD) Distributed Common Ground/ Surface System (DCGS) Mission Area Initial Capabilities Document (MA ICD) dated 13 Aug 2004, which captured the overarching requirements for an Intelligence, Surveillance, and Reconnaissance (ISR) Family of Systems (FoS) that will contribute to Joint and combined Warfighter needs. That ICD was updated as the Distributed Common Ground/Surface System (DCG/SS) Enterprise ICD, and approved by the Joint Requirements Oversight Council (JROC) 27 Feb 2009. The Army requirements were refined in the DCGS-A Capabilities Development Document (CDD), and approved by the JROC 31 Oct 2005. The DCGS-A program is currently in the Production and Deployment phase and was designated as a Major Automated Information System (MAIS) in OSD (AT&L) Memorandum, 29 Mar 2010.

DCGS-A is following an evolutionary acquisition approach to develop and field system capabilities over time to satisfy the requirements of the DCGS-A Capability Development Document (CDD). Following this approach, the first increment was defined and a Capability Production Document (CPD) was created with full consideration of all of the preceding supporting documents and analysis. As part of its initial staffing, a Cost Benefit Analysis was completed in support of the DCGS-A CPD. This analysis projected a significant cost avoidance/savings over the life cycle by not limiting the hardware configuration to a one size fits all unit types design but rather integrating the DCGS-A SW capabilities into common servers and other IT components fielded at that echelon. This approach was included in the CPD and updated DCGS-A Acquisition Strategy. The CPD was approved by the JROC on 20 Dec 2011.

The DCGS-A System Engineering Plan (SEP) updated the current development plan and was approved by OASD (R&E) on 5 Dec 2011. The DCGS-A Revised Acquisition Strategy (AS) was approved by the Defense Acquisition Executive (DAE) on 21 Mar 2012. The DCGS-A Acquisition Program Baseline was approved on 29 Mar 12. The DCGS-A program received a milestone C decision on 29 Feb 2012 and an operational test was completed in Jun 2012. A successful Full Deployment Decision (FDD) for Release 1 Initial Minimum Capability was obtained December 2012.

PM DCGS-A has been designated as the Command Post Computing Environment (CPCE) Lead for PEO IEW&S. As such, DCGS-A is currently aligning it's architecture to fit within the Common Operating Environment (COE) as described by the ASA(ALT) COE Implementation Plan. This alignment is in accordance with the G-3/5/7 priority to align all Army networks, procurements, and enhancements under one COE and one vision. Our acquisition strategy supports this initiative as we continue to collapse PORs and reduce footprint following our capability migration path and iterative development of software releases which continue to increase capabilities to satisfy the remaining CPD requirements beyond Initial Minimal Capability. As DCGS-A continues the path through Increment 1 and beyond, each release will focus on the COE and continually align the Command Post activities with DCGS-A Cloud and POR migration activities. The program office expects to continue as

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/Surface Systems*	PROJECT 956: *Distributed Common Ground System (MIP)*

the DCGS-A System Integrator for software development and hardware integration, and will continue to access multiple vendors by leveraging a variety of competitively awarded contracts.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/Surface Systems*	PROJECT 956: *Distributed Common Ground System (MIP)*	

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Project Management	Various	PM, DCGS-A:APG, MD	22.552	2.186		3.103		1.041		-		1.041	Continuing	Continuing	Continuing
		Subtotal	22.552	2.186		3.103		1.041		0.000		1.041			

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Metadata Catalog	Various	MITRE,:various	17.865	-		-		-		-		-	Continuing	Continuing	Continuing
Design & Develop DCGS-A Architecture	Various	Northrup Grumman, Various:Linthicum, MD, Various	220.204	3.164		26.712		-		-		-	0.000	250.080	0.000
Design & Develop DCGS-A Incr 1 Software	Various	TBD, Various:TBD	0.000	-		-		13.979	Dec 2013	-		13.979	Continuing	Continuing	0.000
Secure Common Data Link (SCDL)	Various	CUBIC:Orlando, Fla.	0.788	-		-		-		-		-	Continuing	Continuing	0.000
Global Unified Data Environment (Cloud) Development	Various	CERDEC/SEC:APG, MD	0.000	21.500		-		-		-		-	Continuing	Continuing	0.000
		Subtotal	238.857	24.664		26.712		13.979		0.000		13.979			

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Matrix Support Government Test & Integration Lab	Various	CECOM:CECOM	14.180	-		4.554		4.082	Feb 2014	-		4.082	Continuing	Continuing	Continuing
		Subtotal	14.180	0.000		4.554		4.082		0.000		4.082			

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*		R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/Surface Systems*	PROJECT 956: *Distributed Common Ground System (MIP)*

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Operational Test Support for DCGS-A Rel 2 and Rel 3 OT Prep	Various	ATEC, OTC, Various:APG, MD, EPG, Various	2.738	-		6.507	Mar 2013	4.376	Nov 2013	-		4.376	Continuing	Continuing	Continuing
Developmental Testing for Release 3	Various	I2WD, Various:APG, MD, Various	0.000	-		-		2.528	Nov 2013	-		2.528	0.000	2.528	0.000
NIE for Rel 2 and CPCE COE V2	Various	NIE:Ft. Bliss	8.636	1.651		-		0.800	Nov 2013	-		0.800	Continuing	Continuing	Continuing
Operational Assessments/ Joint Demo for Inc 1 and CPCE	Various	Empire Challenge, ULCHI Freedom Guardia, Unified Vision:AZ, KO, EU	0.000	1.800		-		0.300	Jun 2014	-		0.300	0.000	2.100	0.000
Certification Test	Various	JITC/CTSF:ATEC	0.000	1.100		-		0.516		-		0.516	0.000	1.616	0.000
		Subtotal	11.374	4.551		6.507		8.520		0.000		8.520			

	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	286.963	31.401		40.876		27.622		0.000		27.622			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0305208A: *Distributed Common Ground/Surface Systems*	**PROJECT** 956: *Distributed Common Ground System (MIP)*

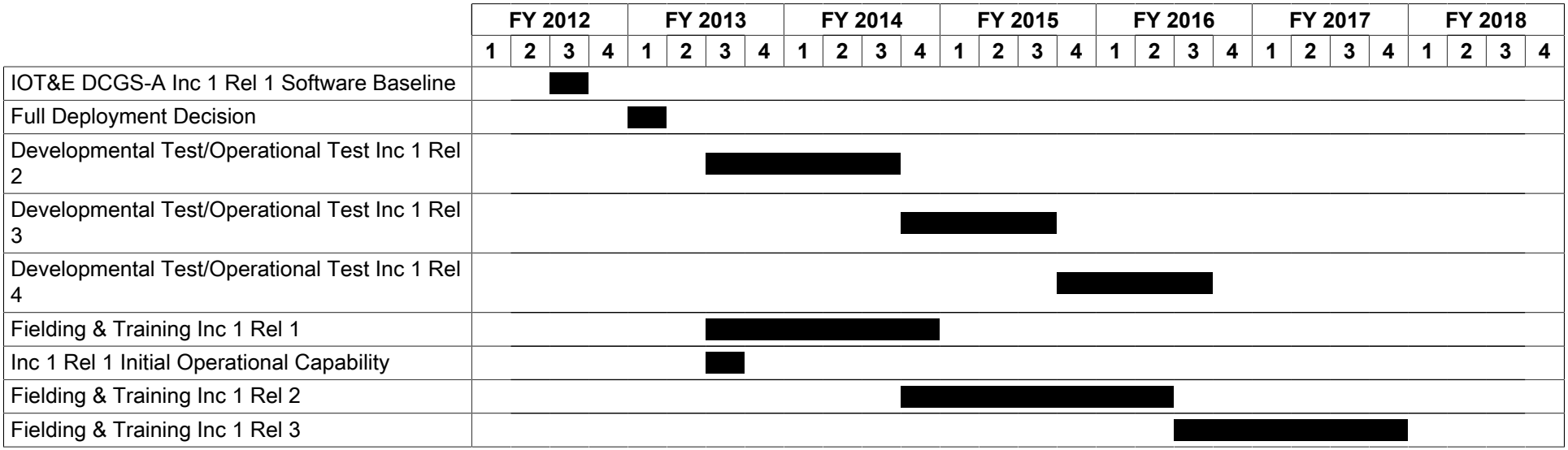

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0305208A: *Distributed Common Ground/Surface Systems*	**PROJECT** 956: *Distributed Common Ground System (MIP)*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
IOT&E DCGS-A Inc 1 Rel 1 Software Baseline	3	2012	3	2012
Full Deployment Decision	1	2013	1	2013
Developmental Test/Operational Test Inc 1 Rel 2	3	2013	3	2014
Developmental Test/Operational Test Inc 1 Rel 3	4	2014	3	2015
Developmental Test/Operational Test Inc 1 Rel 4	4	2015	3	2016
Fielding & Training Inc 1 Rel 1	3	2013	4	2014
Inc 1 Rel 1 Initial Operational Capability	3	2013	3	2013
Fielding & Training Inc 1 Rel 2	4	2014	2	2016
Fielding & Training Inc 1 Rel 3	3	2016	4	2017

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/Surface Systems*	PROJECT D07: *DCGS-A Common Modules (MIP)*	

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
D07: *DCGS-A Common Modules (MIP)*	-	0.000	0.000	0.000	-	0.000	11.129	25.854	26.571	27.023	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

Distributed Common Ground System - Army (DCGS-A) will serve as the primary ground system of systems for airborne and ground sensor platforms defined as Objective Force systems. DCGS-A enables the commander to achieve situational understanding by leveraging multiple sources of data, information, and intelligence to synchronize the elements of Joint and Combined Arms combat power (maneuver, maneuver support and maneuver sustainment support). The core functions of DCGS-A are: collection and processing of space, airborne, ground and maritime Intelligence, Surveillance and Reconnaissance (ISR) sensor data; control of select Army and joint ISR sensor systems; intelligence synchronization; ISR planning, reconnaissance and surveillance (R&S) integration; fusion of sensor information, and direction and distribution/dissemination of sensor information. It draws information from a wide variety of automated and manual sources; on-board sensors, space platforms, unattended air and ground vehicles, existing and new ISR capabilities, and an assortment of databases to enable the land component commander to execute battle command, synchronize fires and effects, rapidly shift battle focus, achieve situational understanding, protect the force, and employ his forces more effectively. DCGS-A allows commanders at all levels to visualize and understand the threat and environment, predict threat intentions, execute targeting through targeting support, conduct ISR integration and support Information Operations.

This project provides for the design, development, integration and test of the DCGS-A system of systems at all echelons, from embedded DCGS-A up to Fixed Site operations. The effort includes system engineering, software integration and development, test & evaluation, and use of Modeling and Simulation (M&S) to develop DCGS-A Mobile systems with common multi-function hardware and software combinations (i.e. user workstations) capable of performing all DCGS-A functions. Development will focus on common module hardware and software that is scaleable to allow commanders increased flexibility in the intelligence force package deployed such that it can be tailored to the echelon, location, and mission that DCGS-A will be required to support. Included in the development will be the stand-up of a Federated Systems Integration Lab (SIL) to assess and implement existing and new candidate software applications and components into the DCGS-A baseline design. A common set of ISR Analysis Tools to support collaboration, exploitation, fusion and collection management will be developed that operate within the construct of distributed, reach operations within the DCGS-A enterprise in order to maximize data access and minimize forward footprint. This will ultimately result in a DCGS-A design that reduces physical and logistics footprint, eases training burden, and decreases sustainability requirements.

FY09 funds development of Technology Insertion modules providing DCGS-A capabilities into Current Force systems, common module multi-function hardware, Battle Command interoperability and integration and test of new software applications.

Funding for this effort continues under Project 956 beginning in FY 2010.

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/Surface Systems*	PROJECT D07: *DCGS-A Common Modules (MIP)*

B. Accomplishments/Planned Programs ($ in Millions)

N/A

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305208A: *Distributed Common Ground/Surface Systems*	PROJECT D07: *DCGS-A Common Modules (MIP)*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
TBD	TBD	TBD:TBD	0.000	-		-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	0.000	0.000		0.000		0.000		0.000		0.000			

	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	0.000	0.000		0.000		0.000		0.000		0.000			

Remarks