Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army											DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *System Development & Demonstration (SDD)*					**R-1 ITEM NOMENCLATURE** PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev*							
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	-	15.357	13.926	14.575	-	14.575	14.647	15.042	15.365	15.616	Continuing	Continuing
C74: *Devel Simulation Tech*	-	3.540	2.206	1.476	-	1.476	1.740	1.745	1.870	1.901	Continuing	Continuing
C77: *Army Geospatial Data Master Plan*	-	0.468	0.000	0.722	-	0.722	0.706	0.718	0.730	0.741	Continuing	Continuing
C78: *One Semi-Automated Forces*	-	11.349	11.720	12.377	-	12.377	12.201	12.579	12.765	12.974	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
Change Summary Explanation: Funding realigned for C78 One Semi-Automated Forces and C77 Army Geospatial Data Master Plan requirements.

A. Mission Description and Budget Item Justification
The program element "Distributive Interactive Simulations - Engineering Development" applies to the Army's Advanced Simulation Program, which enables operational readiness and the development of concepts and systems for the Future Force through the application of new simulation technology and techniques. The development and application of simulation technology will provide the means to link electronically a range of various simulation tools in a manner that is transparent to the user. The amalgam of simulations and tools is linked together to enable execution of an event; to verify the scenarios, tactics/techniques and procedures; to train testers on new hardware/software; and to conduct trial test runs before costly live field tests. The tools developed are available for reuse by developers and users of simulations throughout the Army.

Project C74 provides the resources necessary to perform the formally chartered mission of the Army's Simulation-to-C4I* Interoperability Overarching Integrated Product Team (SIMCI OIPT). (*C4I = Command, Control, Communications, Computers and Intelligence.) Project C77, Army Geospatial Data Master Plan, focuses on activities that start with data acquisition from multiple sources and culminate in (1) accurate, robust and timely geospatial data and data management and (2) integration and conversion tools that support multiple battle command, training and mission-rehearsal applications. Project C78 develops the One Semi-Automated Forces (OneSAF) program, which will combine and improve the functionality and behaviors of several current semi-automated forces to provide a single SAF for Army use in simulations.

FY 2014 funding for Project C74 continues management of the SIMCI OIPT's Army-wide collaborative, interoperability enhancement activities, including architecture alignment, data model alignment, common standards, components, and products. Project C77 has no FY 2013 funding. Project C78 continues development of software as required to provide OneSAF Pre-Planned Product Improvements (P3Is) as prioritized and approved by the Training and Doctrine Command.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army				DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)			R-1 ITEM NOMENCLATURE PE 0604760A: Distributive Interactive Simulations (DIS) - Eng Dev		
B. Program Change Summary ($ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	15.787	13.926	13.920	-	13.920
Current President's Budget	15.357	13.926	14.575	-	14.575
Total Adjustments	-0.430	0.000	0.655	-	0.655
• Congressional General Reductions	-0.024	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.406	-			
• Adjustments to Budget Years	-	-	0.655	-	0.655

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army										DATE: April 2013	

APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *System Development & Demonstration (SDD)*				R-1 ITEM NOMENCLATURE PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev*				PROJECT C74: *Devel Simulation Tech*			

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
C74: *Devel Simulation Tech*	-	3.540	2.206	1.476	-	1.476	1.740	1.745	1.870	1.901	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

Project C74 funds the HQDA-chartered mission of the Simulation-to-Mission Command Interoperability (SIMCI) Overarching Integrated Product Team (OIPT). The SIMCI OIPT mission is to provide policy recommendations to Army senior leadership to improve organizations by allowing Soldiers to fight in the same manner which they train. This is accomplished by interoperability between Mission Command (MC) systems and the Modeling and Simulation (M&S) systems the Army uses to stimulate MC systems for training Soldiers and their Leaders. SIMCI also invests in targeted solutions to critical problem areas that exist between MC and Simulations. The SIMCI OIPT, led by Program Executive Office (PEO) Simulation, Training, and Instrumentation (STRI) and PEO Command Control Communications-Tactical (C3T), uses focused collaborative processes among its 30+ Army organizations to identify key/critical interoperability shortfalls and the required materiel solutions.

The SIMCI OIPT provides the following: (1) Advisor to Army Leadership--improve MC and M&S interoperability programs, policies, directives, resourcing, and procedures; (2) Technical Investment--sponsor/support initiatives that seek common solutions to critical interoperability issues surrounding MC and M&S systems; (3) Outreach--conduct & participate in interoperability outreach activities. SIMCI investments consist primarily of cost-sharing initiatives, leveraging initial system solutions of acquisition programs to enhance the interoperability of multiple systems in the Joint Operational Environment. SIMCI investments accelerate implementation within MC and M&S systems, of common data models and information exchanges that are used by other Services and coalition nations, thus enhancing the inherent ability of Army systems to interoperate seamlessly in a Joint, Interagency, Intergovernmental, and Multinational (JIIM) environment.

FY 2014 funding continues management of the SIMCI OIPT'S Army-wide collaborative, interoperability enhancement activities, including architecture alignment, data model alignment, common standards, components, and products. It is focused first on reducing costs and improving capabilities in the areas of automating Operational Plans, Orders, and Reports in support of Army, Joint, and Coalition operations. Objectives are: identify and articulate to HQDA senior leadership specific standards that require Army-wide implementation; co-develop data standards, architecture standards, implementation specifications and Joint/Coalition products; continue transition of SIMCI knowledge and proof-of-principle products to Army and Joint acquisition programs.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Program Management for the SIMCI Overarching Integrated Product Team (OIPT) Projects.	3.454	2.206	1.476
Articles:	0	0	
Description: Program Management of the SIMCI OIPT's Army-wide collaborative, interoperability enhancement activities, including architecture alignment, data model alignment, common standards, components, and products.			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *System Development & Demonstration (SDD)*	R-1 ITEM NOMENCLATURE PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev*	PROJECT C74: *Devel Simulation Tech*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: Continues management of the SIMCI OIPT'S Army-wide collaborative, interoperability enhancement activities, including architecture alignment, data model alignment, common standards, components, and products. It is focused first on reducing costs and improving capabilities in the areas of automating Operational Plans, Orders, and Reports in support of Army, Joint, and Coalition operations. Objectives are: identify and articulate to HQDA senior leadership specific standards that require Army-wide implementation; co-develop data standards, architecture standards, implementation specifications and Joint/Coalition products; co-develop Mission Command (MC) and Modeling & Simulation (M&S) products to support PEO Integration; continue transition of SIMCI knowledge and proof-of-principle products to Army and Joint acquisition programs. ***FY 2013 Plans:*** Continues management of the SIMCI OIPT'S Army-wide collaborative, interoperability enhancement activities, including architecture alignment, data model alignment, common standards, components, and products. It is focused first on reducing costs and improving capabilities in the areas of automating Operational Plans, Orders, and Reports in support of Army, Joint, and Coalition operations. Objectives are: identify and articulate to HQDA senior leadership specific standards that require Army-wide implementation; co-develop data standards, architecture standards, implementation specifications and Joint/Coalition products; co-develop MC/M&S products to support PEO Integration; continue transition of SIMCI knowledge and proof-of-principle products to Army and Joint acquisition programs. ***FY 2014 Plans:*** Continues management of the SIMCI OIPT'S Army-wide collaborative, interoperability enhancement activities, including architecture alignment, data model alignment, common standards, components, and products. It is focused first on reducing costs and improving capabilities in the areas of automating Operational Plans, Orders, and Reports in support of Army, Joint, and Coalition operations. Objectives are: identify and articulate to HQDA senior leadership specific standards that require Army-wide implementation; co-develop data standards, architecture standards, implementation specifications and Joint/Coalition products; continue transition of SIMCI knowledge and proof-of-principle products to Army and Joint acquisition programs.			
Title: Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR) ***Articles:*** *Description:* SBIR/STTR ***FY 2012 Accomplishments:*** Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)	0.086 0	0.000	0.000
Accomplishments/Planned Programs Subtotals	3.540	2.206	1.476

Exhibit R-2A, **RDT&E Project Justification:** PB 2014 Army		**DATE:** April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *System Development & Demonstration (SDD)*	**R-1 ITEM NOMENCLATURE** PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev*	**PROJECT** C74: *Devel Simulation Tech*

C. Other Program Funding Summary ($ in Millions)

   N/A

Remarks

D. Acquisition Strategy

   SIMCI OIPT resources are allocated to multiple organizations in both the Mission Command (MC) and Modeling and Simulation (M&S) Communities. The funds are contracted to execute approved functions and to projects that advance the efforts of SIMCI and components-based architecture alignment. Products developed transition to the lead or sponsor's program which then maintains the product for the cost savings of itself and other programs in both Communities.

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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army													DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)								R-1 ITEM NOMENCLATURE PE 0604760A: Distributive Interactive Simulations (DIS) - Eng Dev					PROJECT C74: Devel Simulation Tech		

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
Program Management	Various	PEO STRI:Orlando, FL	9.284	0.216	Dec 2011	0.200	Dec 2012	0.183	Dec 2013	-		0.183	Continuing	Continuing	Continuing
SBIR/STTR	TBD	PEO STRI:Orlando, FL	0.000	0.086	Oct 2011	-		-		-		-	0.000	0.086	0.000
Subtotal			9.284	0.302		0.200		0.183		0.000		0.183			

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
Transition of simulation initialization capability	Various	JCW:Suffolk, VA	2.461	0.373	Feb 2012	0.193	Feb 2013	0.142	Feb 2014	-		0.142	Continuing	Continuing	Continuing
Geospatial Initiative	Various	GMU:Fairfax, VA	1.028	0.360	Feb 2012	0.215	Feb 2013	0.147	Feb 2014	-		0.147	Continuing	Continuing	Continuing
Data Model applications and reference implementations	Various	Viecore FSD, George Mason Univ,:Ft. Monmouth, NJ	1.912	0.451	Feb 2012	0.144	Feb 2013	0.095	Feb 2014	-		0.095	Continuing	Continuing	Continuing
Implementation of Initialization Products	Various	Alion Science & Technology:Tysons Corner, VA	1.795	0.460	Feb 2012	0.150	Feb 2013	0.103	Feb 2014	-		0.103	Continuing	Continuing	Continuing
Initialization Study Implementation	Various	IDA:Alexandria, VA	0.710	0.300	Feb 2012	0.170	Feb 2013	0.119	Feb 2014	-		0.119	Continuing	Continuing	Continuing
Mission Comand systems data mediation/web services	Various	NVESD, CERDEC, AGC:Various	2.419	0.191	Dec 2011	0.200	Dec 2012	0.095	Dec 2013	-		0.095	Continuing	Continuing	Continuing
Expanding MTOE System Architecture (SA) Data	SS/FP	General Dynamics:Orlando, FL	1.619	0.202	Feb 2012	-		-		-		-	0.000	1.821	1.829
C2 Adapter Web Services and Tools	Various	PEO STRI & ACG:Orlando, FL	1.918	0.442	Feb 2012	0.225	Feb 2013	0.125	Feb 2014	-		0.125	Continuing	Continuing	Continuing
Subtotal			13.862	2.779		1.297		0.826		0.000		0.826			

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army													**DATE:** April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *System Development & Demonstration (SDD)*							**R-1 ITEM NOMENCLATURE** PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev*						**PROJECT** C74: *Devel Simulation Tech*		

Support ($ in Millions)				**FY 2012**		**FY 2013**		**FY 2014 Base**		**FY 2014 OCO**		**FY 2014 Total**			
Cost Category Item	**Contract Method & Type**	**Performing Activity & Location**	**All Prior Years**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
SIMCI Program/OIPT Support	C/CPFF	Alion Science & Technology:Orlando, FL	0.541	0.400	Feb 2012	0.650	Feb 2013	0.408	Feb 2014	-		0.408	Continuing	Continuing	Continuing
Army Initialization Program and Technical Work Groups (TWG)	Various	Alion Science & Tecnology:Orlando, FL	0.522	0.059	Feb 2012	0.059	Feb 2013	0.059	Feb 2014	-		0.059	Continuing	Continuing	Continuing
		Subtotal	1.063	0.459		0.709		0.467		0.000		0.467			

			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	24.209	3.540		2.206		1.476		0.000		1.476			

Remarks

Exhibit R-2A, **RDT&E Project Justification:** PB 2014 Army										**DATE:** April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *System Development & Demonstration (SDD)*					**R-1 ITEM NOMENCLATURE** PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev*				**PROJECT** C77: *Army Geospatial Data Master Plan*		

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
C77: *Army Geospatial Data Master Plan*	-	0.468	0.000	0.722	-	0.722	0.706	0.718	0.730	0.741	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

Project C77 addresses the implementation and acceleration of objectives of the Army Geospatial Data Integrated Master Plan (AGDIMP), approved by the Chief of Staff, Army in April 2005. The AGDIMP provides the framework for generating, analyzing and distributing geospatial data for battle management operations, training, and mission rehearsal. The AGDIMP also provides the procedures for identifying and refining Army geospatial resource requirements. Geospatial data provide soldiers with the framework and background for displaying the location of friendly and enemy forces and the location of other critical features on the battlefield. Geospatial data -- used in Army command and control systems, course of action analysis, mission rehearsal tools, simulators and simulations -- provide insights on how the physical environment will impact combat operations. This minimizes exposure of soldiers to hostile environments. The AGDIMP describes the operations for a complete, integrated network-centric enterprise for managing and updating geospatial data required for the Army's Future Force. Although this plan encompasses most of the issues of an enterprise solution for geospatial needs and concerns, it does not contain the full level of detail or complexity required to be considered complete. The AGDIMP includes all activities starting with data acquisition from multiple sources (including raw sensor feeds from national sensors to soldier/platform level) and concluding with accurate, robust, and timely geospatial (terrain-related) data management, integration, and conversion tools that support multiple battle command, training, and mission-rehearsal applications. The AGDIMP does not include the algorithms and functions used by the applications themselves to produce finished battle command or intelligence products. The AGDIMP will become part of a much larger effort to integrate geospatial activities across all Services while documenting the complex framework for a "net ready" geospatial information and service architecture, an environment in which the Army's current and future forces must operate to achieve information dominance within the total battle space. This larger effort is currently being developed in conjunction with the Joint Forces Command and the other Services, including Special Operations Command.

FY 2014 funding continues development efforts associated with the Ground-Warfighter Geospatial Data Model(GGDM) and Geospatial Data Standards.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Ground-Warfighter Geospatial Data Model (GGDM) formerly Army Geospatial Data Model (AGDM)	0.232	0.000	0.350
Articles:	0		
Description: The GGDM incorporates common data elements that conform to standards mandated by the Department of Defense Information Technology Standards Registry (DISR) for the National System for Geospatial Intelligence (NSG). Incorporating			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *System Development & Demonstration (SDD)*	**R-1 ITEM NOMENCLATURE** PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev*	**PROJECT** C77: *Army Geospatial Data Master Plan*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
common geospatial data standards into the GGDM makes the Programs of Record (POR) consistent with new DISR-mandated geospatial intelligence standards for the NSG. *FY 2012 Accomplishments:* Contribute to the development of the Army Geospatial Data Model version 2.1 *FY 2014 Plans:* Perform data modeling actions necessary to develop the next version of the GGDM (ver 2.2.) including aligning content from Aviation, Human Geography and adding and aligning new content from NGA's 8 domain data stores.			
Title: Geospatial Data Standards *Articles:*	0.236 0	0.000	0.372
Description: Army Geospatial Standards including data standards and standards for services to manage process and disseminate and utilized geospatial data. *FY 2012 Accomplishments:* Develop geospatial data standards and integrate geospatial data into the Battle Command (BC) systems. *FY 2014 Plans:* FY14 funds will be directed toward the development and consistent integration of geospatial enterprise data standards, including standard practices for production and management of geospatial data, into Army Mission Command, Simulation and Training programs, systems and organizations.			
Accomplishments/Planned Programs Subtotals	0.468	0.000	0.722

C. Other Program Funding Summary ($ in Millions)
   N/A
Remarks

D. Acquisition Strategy
   Resources are allocated to multiple organizations for approval and execution of projects in support of the Army Geospatial Data Integrated Master Plan (AGDIMP).

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 5: *System Development & Demonstration (SDD)* | R-1 ITEM NOMENCLATURE
PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev* | PROJECT
C77: *Army Geospatial Data Master Plan* |

Product Development ($ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	**Contract Method & Type**	**Performing Activity & Location**	**All Prior Years**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Army Geospatial Model and Data Standards	Various	TBD:TBD	3.114	0.468	Feb 2012	-		0.722	Feb 2012	-		0.722	0.000	4.304	3.614
		Subtotal	3.114	0.468		0.000		0.722		0.000		0.722	0.000	4.304	3.614

			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	3.114	0.468		0.000		0.722		0.000		0.722	0.000	4.304	3.614

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army											DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *System Development & Demonstration (SDD)*					**R-1 ITEM NOMENCLATURE** PE 0604760A: *Distributive Interactive* *Simulations (DIS) - Eng Dev*				**PROJECT** C78: *One Semi-Automated Forces*			
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
C78: *One Semi-Automated Forces*	-	11.349	11.720	12.377	-	12.377	12.201	12.579	12.765	12.974	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

One Semi-Automated Forces (OneSAF) develops and delivers a software system that represents activities of units and forces in simulation. This representation is used to support the concept evaluation, experimentation, materiel acquisition and training communities. The focus of this project is systems engineering and design for development and evolution of the architecture and software tools for a universal system of Army computer-generated forces -- OneSAF. OneSAF is a high fidelity brigade-and-below SAF that represents a full range of operations, systems and control processes in support of stand-alone and embedded training and Research, Development and Acquisition (RDA) simulation applications. OneSAF is fully interoperable with the Army's emerging virtual, live, and division-and-above constructive simulations and provides next-generation simulation products. OneSAF replaces a variety of legacy simulations currently used within the Army to support analytic and training simulation activities.

FY 2014 funding will continue development of the software product line by providing OneSAF Pre-Planned Product Improvements (P3Is) as prioritized and approved by the OneSAF Project Office - Training and Doctrine Command (TRADOC).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Engineering and Manufacturing Development (EMD) phase contract activities for the One Semi-Automated Forces program. *Articles:*	7.970 0	8.120 0	8.772

Description: Continue EMD phase contract activities for the OneSAF program.

FY 2012 Accomplishments:
Provided for the development of software for OneSAF Pre-Planned Product Improvements (P3Is) as prioritized and approved by the Training and Doctrine Command (TRADOC) Project Office. Executed software development of functionality to provide architectural services, components, synthetic environment and infrastructure capable of supporting initial model development. Completed development, test and release of Version 5.1.1 and Version 5.5.

FY 2013 Plans:
Continue the development of software capabilities to provide OneSAF Pre-Planned Product Improvements (P3Is) as prioritized and approved by the Training and Doctrine Command (TRADOC) Project Office. Continue software development of functionality

Exhibit R-2A, **RDT&E Project Justification:** PB 2014 Army		**DATE:** April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *System Development & Demonstration (SDD)*	**R-1 ITEM NOMENCLATURE** PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev*	**PROJECT** C78: *One Semi-Automated Forces*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
to enhance architectural services, components, synthetic environment and infrastructure capable of supporting model development. Perform Software development, test and release of Version 6.0			
FY 2014 Plans: Continues the development of software capabilities to provide OneSAF Pre-Planned Product Improvements (P3Is) as prioritized and approved by Training and Doctrine Commands (TRADOC) OneSAF Project Office. Continues enhancement of functionality of architectural services, components, the synthetic environment and infrastructure capable of supporting model development. Performs Software development, test and release of Version 7.0.			
Title: Government System Test and Evaluation for the One Semi-Automated Forces program. *Articles:*	0.965 0	1.100 0	1.200
Description: Government System Test and Evaluation for the OneSAF program. **FY 2012 Accomplishments:** Perform development software, test, release and verification for Version 5.1.1 and 5.5. Provide support to the user community in conducting experiments and validation events as needed for continued integration into the Joint Land Component Constructive Training Capability (JLCCTC) federation and Live Virtual Constructive (LVC) applications. **FY 2013 Plans:** Perform development software, test, release and verification for Version 6.0. Provide support to the user community in conducting experiments and validation events as needed for integration into the JLCCTC federation and LVC applications. **FY 2014 Plans:** Perform software development, test, integration, release and verification for Version 7.0. Continue to provide support to the user community in conducting experiments and validation events as needed for integration into the JLCCTC federation and LVC applications			
Title: Government Program Management for the OneSemi-Automated Forces (OneSAF) program. *Articles:*	2.414 0	2.500 0	2.405
Description: Government Program Management for the OneSAF program. **FY 2012 Accomplishments:** The Government Program Management Office for OneSAF supports the design, development and integration of OneSAF Versions 5.1.1 and 5.5. Provides for government manpower, facilities, training, operations and maintenance of the OneSAF infrastructure. **FY 2013 Plans:**			

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *System Development & Demonstration (SDD)*	**R-1 ITEM NOMENCLATURE** PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev*	**PROJECT** C78: *One Semi-Automated Forces*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Provides for Government Program Management Office support of the development and integration of OneSAF version 6.0. Funding supports manpower, facilities, training, operations and maintenance and other infrastructure. *FY 2014 Plans:* Provides for Government Program Management Office support for the development and integration of OneSAF Version 7.0 scheduled for release in FY 14. Funding also supports manpower, facilities, training, operations and maintenance and other infrastructure requirements across the OneSAF Program.			
Accomplishments/Planned Programs Subtotals	11.349	11.720	12.377

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
• OMA: *OMA, 121014000*	3.930	4.232	5.043		5.043	5.028	5.141	5.224	5.313	Continuing	Continuing

Remarks

OMA funds provide for maintenance of existing OneSAF product line to include life cycle software support and OneSAF TRADOC Project Office (TPO).

D. Acquisition Strategy

Continue the yearly release of the OneSAF Software (SW) versions containing performance enhancements resulting from the development and integration of both approved Product Improvements and Co-Developer handovers. PM OneSAF continues to manage two Delivery Orders for the Development, Integration, Interoperability, and Support (I2S) of capabilities products, data, and documentation that fully serves the current and evolving needs of the user community.

The enhancements will be executed within the development line as modifications to the released baseline via Engineering Change Proposals (ECPs); Change Requests (CRs): Pre-Planned Product Improvements (P3I); and correction of deficiencies identified as Problem Test Reports (PTRs) and Deficiency Reports (DRs) by the user community.

The Development Delivery Order is primarily focused on capability enhancements within the OneSAF Product Line. The key objectives here are to develop the capabilities needed to execute the OneSAF production line and deliver OneSAF SW product line, data, and documentation to meet the needs of the growing user community. These software products will include capabilities supporting the requirements of the OneSAF program; other US Army PEOs and PMs, TRADOC Battle Labs, Research and Development Centers (RDECs) and agencies; other Service and Joint agencies; Foreign Countries; non Department of Defense government organizations and agencies; academic institutions and other Co-Developers.

The I2S Delivery Order is primarily focused on the Configuration Management and Control of the released OneSAF Product Line and executes the overarching OneSAF integration, interoperability and support efforts required for delivery of OneSAF SW, data and documentation products to the User Community. It also provides

Exhibit R-2A, **RDT&E Project Justification:** PB 2014 Army		**DATE:** April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *System Development & Demonstration (SDD)*	**R-1 ITEM NOMENCLATURE** PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev*	**PROJECT** C78: *One Semi-Automated Forces*

the Conceptual Modeling, Architectural and Engineering support to the OneSAF Co-Developers as required to support their OneSAF SW product deliveries; the training products and support required by the OneSAF user community; and integration of capabilities.

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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 5: *System Development & Demonstration (SDD)*								**R-1 ITEM NOMENCLATURE** PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev*						**PROJECT** C78: *One Semi-Automated Forces*	

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
Program Management	Various	PEO STRI, Orlando, FL:Various	15.481	2.414	Dec 2011	2.500	Dec 2012	2.405	Oct 2013	-		2.405	Continuing	Continuing	Continuing
Subtotal			15.481	2.414		2.500		2.405		0.000		2.405			

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
Architecture Dev & System Integration	C/CPFF	Science Applications International Corp:Orlando, FL	51.466	-		-		-		-		-	0.000	51.466	51.466
Model and Tools Development	C/CPFF	Science Applications International Corp:Orlando, FL	27.625	-		-		-		-		-	0.000	27.625	27.625
Environmental Runtime Component	C/CPFF	Science Applications:Orlando, FL	7.981	-		-		-		-		-	0.000	7.981	7.981
OneSAF Component Development	C/CPFF	Various:Various	9.648	-		-		-		-		-	0.000	9.648	9.648
Integrated Environment Dev	C/CPFF	Advanced Systems Technology, Inc:Orlando FL	11.702	-		-		-		-		-	0.000	11.702	11.702
OneSAF Bridge Contract	C/CPFF	Science Applications International Corp:Orlando, FL	3.797	-		-		-		-		-	0.000	3.797	3.797
Integration, Interoperability, and Support (I2S)	C/CPFF	Cole Engineering Services, Inc.:Orlando, FL	0.350	0.650	Dec 2011	1.500	Dec 2012	1.500	Oct 2013	-		1.500	Continuing	Continuing	Continuing
Software Development	C/CPFF	Science Applications International Corp:Orlando, FL	1.150	5.354	Dec 2011	4.310	Dec 2012	5.222	Oct 2013	-		5.222	Continuing	Continuing	Continuing
Subtotal			113.719	6.004		5.810		6.722		0.000		6.722			

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army		DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *System Development & Demonstration (SDD)*	R-1 ITEM NOMENCLATURE PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev*	PROJECT C78: *One Semi-Automated Forces*

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
System Analysis	Various	Various:Various	5.937	0.160	Dec 2011	0.200	Dec 2012	0.200	Dec 2013	-		0.200	Continuing	Continuing	Continuing
Domain Analysis	Various	Various:Various	5.175	0.200	Dec 2011	0.250	Dec 2012	0.150	Dec 2013	-		0.150	Continuing	Continuing	Continuing
Architecture Engr & Tech Spt	SS/FP	MITRE FFRDC:Ft. Monmouth, NJ	3.616	0.360	Feb 2012	0.360	Feb 2013	0.400	Dec 2013	-		0.400	Continuing	Continuing	Continuing
Integrated Development Environment	Various	Various:Various	1.260	1.246	Dec 2011	1.500	Dec 2012	1.300	Dec 2013	-		1.300	Continuing	Continuing	Continuing
		Subtotal	15.988	1.966		2.310		2.050		0.000		2.050			

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
OneSAF integration, evaluation and test	Various	Various:Various	7.714	0.765	Dec 2011	0.900	Dec 2012	0.950	Dec 2013	-		0.950	Continuing	Continuing	Continuing
OneSAF Verification, Validation & Accreditation	Various	Various:Various	6.147	0.200	Dec 2011	0.200	Dec 2012	0.250	Dec 2013	-		0.250	Continuing	Continuing	Continuing
		Subtotal	13.861	0.965		1.100		1.200		0.000		1.200			

	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	159.049	11.349	11.720	12.377	0.000	12.377			

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *System Development & Demonstration (SDD)*	R-1 ITEM NOMENCLATURE PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev*	PROJECT C78: *One Semi-Automated Forces*

	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
OneSAF Version Release 5.5			■																									
OneSAF Version Release 6.0						■																						
OneSAF Version Release 7.0										■																		
OneSAF Version Release 8.0														■														
OneSAF Version Release 9.0																		■										
OneSAF Version Release 10.0																						■						
OneSAF Version Release 11.0																										■		

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army					DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY 2040: *Research, Development, Test & Evaluation, Army* BA 5: *System Development & Demonstration (SDD)*	R-1 ITEM NOMENCLATURE PE 0604760A: *Distributive Interactive Simulations (DIS) - Eng Dev*	PROJECT C78: *One Semi-Automated Forces*

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
OneSAF Version Release 5.5	3	2012	3	2012
OneSAF Version Release 6.0	2	2013	2	2013
OneSAF Version Release 7.0	2	2014	2	2014
OneSAF Version Release 8.0	2	2015	2	2015
OneSAF Version Release 9.0	2	2016	2	2016
OneSAF Version Release 10.0	2	2017	2	2017
OneSAF Version Release 11.0	2	2018	2	2018