

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

February 2008

BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604760A - Distributive Interactive Simulations (DIS) - Eng Dev							
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	20052	18180	16095	15629	16067	16700	17070	Continuing	Continuing
C73 SYNTHETIC THEATER OF WAR	1939								5194
C74 DEVEL SIMULATION TECH	1677	3598	3702	3788	3597	3950	4034	Continuing	Continuing
C77 Army Geospatial Data Master Plan	186	64	675		500	512	523	Continuing	Continuing
C78 One Semi-Automated Forces (OneSAF)	15233	12809	11718	11841	11970	12238	12513	Continuing	Continuing
C81 Joint Training Integration & Evaluation Center	1017	1709							3685

A. Mission Description and Budget Item Justification: This program element supports the Army's Advanced Simulation Program which enables operational readiness and supports the development of concepts and systems for Stryker and Future Force through the application of new simulation technology and techniques. This development and application of simulation technology will provide the tools to electronically link all subcomponents together in a manner that is transparent to the user. The synthetic environment is used to verify the scenarios, tactics/techniques and procedures, train testers on new hardware/software and 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 C73, Synthetic Theater of War-Army (STOW-A), provided innovative applications of current systems (live, virtual and constructive, Command, Control, Communications, Computers and Integration (C4I) Surveillance and Reconnaissance) to meet the urgent training requirements until availability of the next generation systems. STOW-A provides direct support to the Training, Exercises and Military Operations (TEMO) domain and the Advanced Concepts Requirements (ACR) domain. TEMO support derives from the demonstrated, low cost training capabilities that are provided by the toolkit. ACR support derives from the demonstrated capability of the kit to support battle lab and Army Warfighting Experiments (AWE) exercises and the development of Tactics, Techniques and Procedures (TTP) to support digital operations. Project C74 provides the resources necessary to perform the formally chartered mission of the Army's Simulation to C4ISR Interoperability Overarching Integrated Product Team (SIMCI OIPT). Project C77, Army Geospatial Data Master Plan, focuses on activities starting with data acquisition from multiple sources and culminating with accurate, robust and timely geospatial data and data management, integration and version tools that support multiple battle command, training and mission rehearsal applications. This program will benefit the Army and DOD by providing standards for interoperability and software. The project also develops and enhances reconfigurable simulators which are used as Advanced Concepts Research Tools (ACRT) that will allow the battlelabs to accomplish their mission in support of the ACR, Research, Development and Acquisition (RDA), and TEMO domains. Project C78 develops the One Semi-Automated Forces (OneSAF) program that will combine and improve the functionality and improve behaviors of several current semi-automated forces to provide a single SAF for Army use in simulations.

The FY09, C74 Project line provides for Simulation-to-C4I interoperability (SIMCI) effort between the models and simulations and tactical C4I Systems. The FY09, C77 project line develops a geospatial process and policy for data management. The FY09, C78 Project funding will continue development of the software to provide OneSAF initial operational capability functionality for Army evaluation and test.

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<u>B. Program Change Summary</u>	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2008/2009)	20418	16594	16181
Current BES/President's Budget (FY 2009)	20052	18180	16095
Total Adjustments	-366	1586	-86
Congressional Program Reductions		-134	
Congressional Rescissions			
Congressional Increases		1720	
Reprogrammings	150		
SBIR/STTR Transfer	-516		
Adjustments to Budget Years			-86

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BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604760A - Distributive Interactive Simulations (DIS) - Eng Dev						PROJECT C74	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
C74 DEVEL SIMULATION TECH	1677	3598	3702	3788	3597	3950	4034	Continuing	Continuing

A. Mission Description and Budget Item Justification: The funding in this project line supports the HQDA-chartered mission of the Simulation to Command, Control, Communications, Computers and Intelligence (C4I) Interoperability (SIMCI) Overarching Integrated Product Team (OIPT). The SIMCI OIPT mission is to provide recommendations to Army senior leadership regarding Army policy, organization and processes to improve Battle Command (BC) and Modeling & Simulation (M&S) systems interoperability. BC systems capabilities encompass not only command and control functions, but also "decision and planning support capabilities that cover all functions including deployment, mission rehearsal, sustainment, ISR, etc., en route as well as from fixed locations." (TRADOC Pamphlet 525-66) The PEO STRI-led SIMCI OIPT uses collaborative processes among its approximately 30 Army organizations (including HQDA staff, combat developers and material developers) to identify key interoperability shortfalls and material solutions to them.

The functions of the SIMCI OIPT are: (1) Change Agent: Serve as a catalyst for change to achieve interoperable systems of systems; (2) Facilitator: Facilitate the integration of Army interoperability initiatives with Service and Joint, Interagency, and Multinational (JIM) programs; (3) Advisor to Army Leadership: Recommend and influence BC and M&S interoperability programs, policies, resourcing and procedures; (4) Technical Investment: Sponsor/support solution initiatives for BC and M&S systems' interoperability issues, including targeted, technical investments for projects to develop and (where applicable) implement BC and M&S interoperability architectures, standards, and interface products; (5) Research: Promote cooperative research and coordination among existing and emerging BC and M&S programs; and (6) Outreach: Conduct & participate in interoperability outreach activities such as conferences and publications.

SIMCI investments are comprised primarily of cost sharing opportunities, leveraging partial solutions in programs of record to enhance the interoperability of multiple systems in the joint operational environment. Key programs that will benefit from the cross-domain vision and practices of SIMCI include ABCS, Future Combat System (FCS) System of Systems Common Operating Environment (SOSCOE), Force XXI Battle Command Brigade and Below (FBCB2) Joint Capabilities Release (JCR), Joint Land Component Constructive Training Capability (JLCCTC), Live/Virtual/Constructive Integrating Architecture (LVC-IA), Software Blocking (SWB), Objective Initialization Capability (OIC), Joint Forces Command's Joint National Training Capability (JNTC), and DISA's Net Enabled Command Capability (NECC).

SIMCI investment will accelerate the implementation, within BC and M&S systems, of a common Joint Consultation, Command and Control Information Exchange Data Model (JC3IEDM) that is used by other Services and Coalition nations, thus enhancing the inherent ability of Army systems to seamlessly interoperate in a JIM environment. The SIMCI-sponsored Army C4I and Simulation Initialization System (ACSIS) capability will be expanded to the Objective Initialization Capability (OIC) to address key training and operational data initialization gaps, providing timely, flexible, and common data updates to BC and M&S systems, thus reducing data latency and inter-system ambiguity. SIMCI's direct involvement with FCS will increase the visibility of that program's needs and capabilities, providing the various OIPT organizations with opportunities to leverage their systems' fundamental capabilities to meet the needs of FCS, and vice versa. SIMCI investments will cement those relationships through co-development of common use products.

FY09 funding continues management of the SIMCI efforts in support of the SIMCI OIPT'S collaborative, Army-wide interoperability enhancement activities, including architecture alignment, data model alignment, common standards, components, and products. Objectives are: Identify and articulate to HQDA Senior Leadership specific

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standards that require Army-wide implementation; co-develop data standards, architecture standards, implementation specifications and joint initialization / scenario generation products; co-develop common JC3IEDM integration/translation capability for BC/M&S applications; and co-develop BC/M&S products to meet the FCS Spin Out. Continue transition of SIMCI knowledge and proof-of-principle products to Army and Joint Programs of Record. Based on HQDA G3 and ASA(ALT) guidance, create an Initialization IPT that oversees the activities of the lead Combat and Material Development Integrators for Army Initialization capabilities/requirements and material solutions, respectively. The Initialization IPT reports through the Warfighting Mission Area (WMA) Integrating Working Group (IWG) to the BC GOSC and other Army leadership forums, as required, to facilitate development and implementation of cross-functional Initialization solutions.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Continues management of the SIMCI efforts in support of the SIMCI OIPT'S collaborative, Army-wide interoperability enhancement activities, including architecture alignment, data model alignment, common standards, components, and products. 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 initialization / scenario generation products; co-develop common JC3IEDM integration/translation capability for BC/M&S applications; and co-develop BC/M&S products to meet the FCS Spin Out. Continue transition of SIMCI knowledge and proof-of-principle products to Army and Joint Programs of Record. Based on HQDA G3 and ASA(ALT) guidance, create an Initialization IPT that oversees the activities of the lead Combat and Material Development Integrators for Army Initialization capabilities/requirements and material solutions, respectively. The Initialization IPT reports through the Warfighting Mission Area (WMA) Integrating Working Group (IWG) to the BC GOSC and other Army leadership forums, as required, to facilitate development and implementation of cross-functional Initialization solutions.	1677	3522	3702
Small Business Innovative Research/Small Business Technology Transfer Programs		76	
Total	1677	3598	3702

B. Other Program Funding Summary Not applicable for this item.

C. Acquisition Strategy SIMCI OIPT resources are allocated to multiple organizations and contracts to procure and execute approved functions and projects to support the SIMCI and components-based architecture alignment efforts.

ARMY RDT&E COST ANALYSIS (R3)

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BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
5 - System Development and Demonstration			0604760A - Distributive Interactive Simulations (DIS) - Eng Dev							C74		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
C2 Information Exchange Data Model (C2IEDM) Data Translator	T&M	COLSA Corporation, Huntsville, AL	997								997	904
JC3IEDM Migration/Implementation	CPFF	Alion Science & Technology, Tysons Corner, VA		96	2-4Q	198	2-4Q	203	2-4Q	Cont.	Cont.	Cont.
Implementation of Initialization Products	CPFF	Alion Science & technology, Tysons Corner, Va		187	2-4Q	382	2-4Q	392	2-4Q	Cont.	Cont.	Cont.
Transition of ACSIS simulation initialization capability	MIPR	NAVSEA, Pax River, MD		240	2-3Q	525	2-3Q	539	2-3Q	Cont.	Cont.	Cont.
Expanding Modified Table of Equipment System Architecture (SA) data	T&M	General Dynamics, Orlando, FL		175	2-3Q	388	2-3Q	398	2-3Q	Cont.	Cont.	Cont.
Adding JC3IEDM to the Common C4I adapter	In-House	PEO STRI, Orlando, Fl		290	1-2Q	590	1-2Q	589	1-2Q	Cont.	Cont.	Cont.
Adding JC3IEDM to C2 systems data mediation	T&M	Viecore FSD, Ft. Monmouth, NJ		110	1-2Q	225	1-2Q	231	1-2Q	Cont.	Cont.	Cont.
JC3IEDM sample application and reference implementation	T&M	CSC, Ft. Monmouth, NJ		288	1-2Q	579	1-3Q	594	1-3Q	Cont.	Cont.	Cont.
Initialization Scope Study	T&M	IDA, Alexandria, VA		50	2-3Q						50	50
Initialization Study Implementation	T&M	IDA, Alexandria, VA				210	1-2Q	216	1-2Q	Cont.	Cont.	Cont.
Subtotal:			997	1436		3097		3162		Cont.	Cont.	Cont.
II. Support Costs			Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Facility Support for Digital Integration Lab (DIL)	In-House	PEO STRI (formerly STRICOM), Orlando,	655								655	410

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		FL											
SIMCI Program Support	CPFF	Alion Science & Technology		95	2-3Q	105	2-3Q	108	2-3Q	Cont.	Cont.	Cont.	
Army Initialization Program	CPFF	Alion Science & Tecnology				183	2-3Q	188	2-3Q	Cont.	Cont.	Cont.	
Subtotal:			655	95		288		296		Cont.	Cont.	Cont.	
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
Software Certification Testing	T&M		280								280		
Subtotal:			280								280		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract	
Program Management	Multiple	Various	7863	146	1-2Q	137	1-4Q	244	1-4Q	Cont.	Cont.	Cont.	
SBIR/STTR						76					76		
Subtotal:			7863	146		213		244		Cont.	Cont.	Cont.	
Project Total Cost:			9795	1677		3598		3702		Cont.	Cont.	Cont.	

Schedule Profile (R4 Exhibit)

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Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
Deliverable (Reusable Common Components)	[Redacted]																											
Deliverable - SIMCI OIPT Process	[Redacted]																											
Deliverable - SIMCI Data Representation Tasks	[Redacted]																											
Deliverable - SIMCI Standardization Tasks	[Redacted]																											

Schedule Detail (R4a Exhibit)

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PROJECT
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<u>Schedule Detail</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
Deliverable (Reusable Common Components)	1Q - 4Q						
Deliverable - SIMCI OIPT Process	1Q - 4Q						
Deliverable - SIMCI Data Representation Tasks	1Q - 4Q	1Q - 4Q	1Q - 4Q				
Deliverable - SIMCI Standardization Tasks	1Q - 4Q	1Q - 4Q	1Q - 4Q				

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BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER AND TITLE 0604760A - Distributive Interactive Simulations (DIS) - Eng Dev					PROJECT C78	
COST (In Thousands)	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total Cost
C78 One Semi-Automated Forces (OneSAF)	15233	12809	11718	11841	11970	12238	12513	Continuing	Continuing

A. Mission Description and Budget Item Justification: This project develops and delivers software systems to realistically represent activities of units and forces in simulation. This representation is used to support the concept evaluation, experimentation, materiel acquisition and training communities. Initiatives include the systems engineering and design for development and evolution of the architecture and software tools for a universal Army computer generated forces system, One Semi-Automated Forces (OneSAF). OneSAF is a next generation higher fidelity Brigade and below SAF that will represent a full range of operations, systems and control processes in support of stand alone and embedded training and research, development and acquisition simulation applications. OneSAF will be fully interoperable with the Army's emerging virtual, live, and division and above constructive simulations and will provide next generation simulation products. OneSAF will replace a variety of simulations currently used within the Army to support analytic and training simulation activities.

The FY09 program will continue the development of the software required to provide OneSAF Pre-Planned Product Improvements as prioritized and approved by the TRADOC Project Office.

<u>Accomplishments/Planned Program:</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
FY07-FY09: Continues development of functionality to provide architectural services, components, synthetic environment and infrastructure capable of supporting initial model development.	3348	2900	4467
FY07-FY09: Continues to develop functionality to represent behaviors, physical models, and communication models for OneSAF.	6662	5386	5225
FY07-FY09: Continues verification & Validation of newly developed and integrated software.	2485	2200	2026
FY07: Initiates Software Distribution and New Equipment Training Team	2738		
FY08: Continues Software Distribution and Equipment Training		2000	
Small Business Innovative Research/Small Business Technology Transfer		323	
Total	15233	12809	11718

<u>B. Other Program Funding Summary</u>	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
OMA, 121014	5520	5177	4908	4727	4856	4973	5092	Continuing	Continuing

Comment: OMA funding provides for OneSAF life cycle software maintenance of existing software.

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C. Acquisition Strategy Pre-Planned Product Improvements requirements development based on performance specifications via multiple Task Orders on competitively selected contracts.

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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Architecture Dev & System Integration	CPFF	Science Applications International Corp, Orlando, FL	40865	3095	1-2Q	2000	1-2Q	2934	1-2Q	Cont.	Cont.	Cont.
Integrated Environment Dev	CPFF	Advanced Systems Technology, Inc., Orlando FL	7452	1200	1-2Q	450	1Q	1000	1Q	Cont.	Cont.	Cont.
Synthetic Environment Dev	CPFF	Science Applications International Corp, Orlando, FL	6065	525	1-2Q	400	1Q	400	1Q	Cont.	Cont.	Cont.
Knowledge Acquisition/Knowledge Engineering	CPFF	Aegis Technologies Group, Huntsville, AL	5162								5162	4834
OneSAF System Development	CPFF	Various	8482	416	1-2Q	350	1-2Q	200	1-2Q	Cont.	Cont.	Cont.
Model and Tools Development	CPFF	Science Applications International Corp, Orlando, FL	16411	2727	1-2Q	2725	1-2Q	3000	1-2Q	Cont.	Cont.	Cont.
NETT - SW Distribution and Training	CPFF	Aegis Technologies Group, Huntsville, AL		2400	1-3Q	2260	1-3Q				4660	
Subtotal:			84437	10363		8185		7534		Cont.	Cont.	Cont.
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
System Analysis	Various	Multiple	3627	600	1-2Q	550	1-3Q	500	1-3Q	Cont.	Cont.	Cont.
Domain Analysis	Various	Multiple	3437	600	1-2Q	350	1-3Q	294	1-3Q	Cont.	Cont.	Cont.
Architecture Engr & Tech Spt	C/CPFF	MITRE FFRDC	2136	270	1-2Q	290	2Q	290	2Q	Cont.	Cont.	Cont.
Subtotal:			9200	1470		1190		1084		Cont.	Cont.	Cont.

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III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
OneSAF integration, evaluation and test	C/CPAF	National Simulation Center, FT Leavenworth, KS/Multiple	2954	1000	1-3Q	1000	1-3Q	1000	1-3Q	Cont.	Cont.	Cont.
OneSAF Verification, Validation & Accreditation	Various	WSMR, NM/Aberdeen Proving Grounds, MD/Multiple	3475	1000	1-3Q	500	1-3Q	500	1-3Q	Cont.	Cont.	Cont.
Subtotal:			6429	2000		1500		1500		Cont.	Cont.	Cont.

IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program management	Various	Multiple	7345	1400	1-4Q	1611	1-4Q	1600	1-4Q	Cont.	Cont.	Cont.
SBIR/STTR						323					323	
Subtotal:			7345	1400		1934		1600		Cont.	Cont.	Cont.

Project Total Cost:	107411	15233		12809		11718		Cont.	Cont.	Cont.
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Schedule Profile (R4 Exhibit)

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Event Name	FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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
P3I Requirements Development	P3I																											
(1) OneSAF Version Release 2.0					▲ ₁																							
(2) OneSAF Version Release 3.0					▲ ₂																							
(3) OneSAF Version Release 4.0					▲ ₃																							
(4) OneSAF Version Release 5.0					▲ ₄																							
(5) OneSAF Version Release 6.0					▲ ₅																							
(6) OneSAF Version Release 7.0					▲ ₆																							
OneSAF Support	Life Cycle Software Support																											

Schedule Detail (R4a Exhibit)

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P3I Requirements Development	1Q - 4Q						
OneSAF Version Release 2.0		2Q					
OneSAF Version Release 3.0			1Q				
OneSAF Version Release 4.0				1Q			
OneSAF Version Release 5.0					1Q		
OneSAF Version Release 6.0						1Q	
OneSAF Version Release 7.0							1Q
OneSAF Support	1Q - 4Q						