

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

May 2009

BUDGET ACTIVITY	PE NUMBER AND TITLE				
<b>5 - System Development and Demonstration</b>	<b>0604760A - Distributive Interactive Simulations (DIS) - Eng Dev</b>				
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	19738	17717	15727	Continuing	Continuing
C74 DEVEL SIMULATION TECH	3523	5364	3748	Continuing	Continuing
C77 Army Geospatial Data Master Plan	2063	673	342	Continuing	Continuing
C78 One Semi-Automated Forces (OneSAF)	12490	11680	11637	Continuing	Continuing
C81 Joint Training Integration & Evaluation Center	1662				1662

**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 C74 includes an FY09 Congressional addition of \$1,630K for the Joint Training Integration & Evaluation Center. This was moved from C74 to C81 subsequent to the database lock for proper execution. 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.

The FY2010 line of 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. The FY2010 line of Project C77 develops geospatial data standards and integrates geospatial data into Army Battle Command (BC) systems. The FY2010 line of Project C78 continues development of the software for OneSAF Pre-Planned Product Improvements (P3Is).

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BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604760A - Distributive Interactive Simulations (DIS) - Eng Dev**

<u><b>B. Program Change Summary</b></u>	FY 2008	FY 2009	FY 2010
Previous President's Budget (FY 2009)	18180	16095	15629
Current BES/President's Budget (FY 2010)	19738	17717	15727
Total Adjustments	1558	1622	98
Congressional Program Reductions		-58	
Congressional Rescissions			
Congressional Increases		1680	
Reprogrammings	2007		
SBIR/STTR Transfer	-449		
Adjustments to Budget Years			98

Change Summary Explanation: FY09: Project C74 includes a Congressional Add for the Joint Training Integration & Evaluation Center. This was moved from C74 to C81 subsequent to the database lock for proper execution.

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**May 2009**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>	<b>PE NUMBER AND TITLE</b> <b>0604760A - Distributive Interactive Simulations (DIS) - Eng Dev</b>			<b>PROJECT</b> <b>C74</b>	
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
C74 DEVEL SIMULATION TECH	3523	5364	3748	Continuing	Continuing

**A. Mission Description and Budget Item Justification:** Project C74 funds the HQDA-chartered mission of the Simulation-to-C4I\* Interoperability (SIMCI) Overarching Integrated Product Team (OIPT). (\*C4I = Command, Control, Computers and Intelligence.) The SIMCI OIPT mission is to provide recommendations to Army senior leadership regarding Army policy, organization and processes for improvement of interoperability of Battle Command (BC) and Modeling & Simulation (M&S) systems. BC system capabilities encompass not only command and control functions, but also "decision and planning support capabilities that cover all functions including deployment, mission rehearsal, sustainment, Intelligence, Surveillance, Reconnaissance, etc., en route as well as from fixed locations." [Training and Doctrine Command (TRADOC) Pamphlet 525-66] The SIMCI OIPT, led by PEO-STR1, uses collaborative processes among its approximately 30 Army organizations (including HQDA staff, combat developers and material developers) to identify key interoperability shortfalls and the required materiel solutions.

The functions of the SIMCI OIPT are: (1) Technical Investment--sponsor/support initiatives that seek solutions to interoperability issues surrounding BC and M&S systems; e.g. targeted, technical investments for development projects; implementation of BC and M&S interoperability architectures, standards, and interface products; (2) Research--promote cooperative research and coordination among existing and emerging BC and M&S programs; (3) Advisor to Army Leadership--recommend and influence BC and M&S interoperability programs, policies, resourcing and procedures; (4) Facilitator--facilitate the integration of Army interoperability initiatives with Service and Joint, interagency, and multinational (JIM) programs;(5) Change Agent--serve as a catalyst for change to achieve interoperable system of systems; and (6) Outreach--conduct & participate in interoperability outreach activities such as conferences and publications.

SIMCI investments consist primarily of cost sharing opportunities, leveraging partial solutions to acquisition programs 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 Army Battle Command Systems (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), Data Product Development Environment (DPDE), Joint Forces Command's Joint National Training Capability (JNTC), and Defense Information Systems Agency'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 interoperate seamlessly in a JIM environment. The SIMCI-sponsored Army C4I and Simulation Initialization System (ACSIS) capability will be expanded to the DPDE to address key training and operational data initialization gaps. This will enable 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 OIPTs 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.

FY2010 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. Objectives are: identify and articulate to HQDA senior leadership specific standards that require Army-wide

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

BUDGET ACTIVITY <b>5 - System Development and Demonstration</b>	PE NUMBER AND TITLE <b>0604760A - Distributive Interactive Simulations (DIS) - Eng Dev</b>	PROJECT <b>C74</b>
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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; 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 acquisition programs.

Project C74 includes a Congressional addition of \$1,630K for the Joint Training Integration & Evaluation Center. This was moved from C74 to C81 subsequent to the database lock for proper execution.

<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
FY08-10: Management of the SIMCI OIPT's Army-wide collaborative, 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; co-develop BC/M&S products to meet the FCS Spin Out; and continue transition of SIMCI knowledge and proof-of-principle products to Army and Joint acquisition programs.	3523	3610	3748
FY09: Congressional Addition - Joint Training Intregation and Evaluation Center; supports DoD Joint training and provides for system development to meet urgent US Joint Forces Command live virtual and constructive training requirements. This was moved from C74 to C81 subsequent to the database lock for proper execution.		1630	
Small Business Innovative Research/Small Business Technology Transfer Programs		124	
Total	3523	5364	3748

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

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

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

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 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 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	997
JC3IEDM Migration/Implementation	CPFF	Alion Science & Technology, Tysons Corner, VA	96	198	2-4Q	203	2-4Q	246	2-4Q	Cont.	Cont.	Cont.
Implementation of Initialization Products	CPFF	Alion Science & technology, Tysons Corner, Va	187	382	2-4Q	392	2-4Q	412	2-4Q	Cont.	Cont.	Cont.
Transition of ACSIS simulation initialization capability	MIPR	NAVSEA, Pax River, MD	240	525	2-3Q	539	2-3Q	589	2-3Q	Cont.	Cont.	Cont.
Expanding Modified Table of Equipment System Architecture (SA) data	T&M	General Dynamics, Orlando, FL	175	388	2-3Q	398	2-3Q	361	2-3Q	Cont.	Cont.	Cont.
Adding JC3IEDM to the Common C4I adapter/web service	In-House	PEO STRI, Orlando, Fl	290	590	1-2Q	589	1-2Q	620	1-2Q	Cont.	Cont.	Cont.
Adding JC3IEDM to C2 systems data mediation/web service	T&M	Viecore FSD, Ft. Monmouth, NJ	110	225	1-2Q	231	1-2Q	252	1-2Q	Cont.	Cont.	Cont.
JC3IEDM sample application and reference implementation	T&M	CSC, Ft. Monmouth, NJ	288	579	1-3Q	594	1-3Q	560	1-3Q	Cont.	Cont.	Cont.
Initialization Scope Study	T&M	IDA, Alexandria, VA	50								50	50
Initialization Study Implementation	T&M	IDA, Alexandria, VA		210	1-2Q	216	1-2Q	240	1-3Q	Cont.	Cont.	Cont.
Joint Training Intregation and Evaluation Center	TBS	TBS				1394	2-4Q				1394	1394
Subtotal:			2433	3097		4556		3280		Cont.	Cont.	Cont.
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE								PROJECT	
<b>5 - System Development and Demonstration</b>			<b>0604760A - Distributive Interactive Simulations (DIS) - Eng Dev</b>								<b>C74</b>	
Facility Support for Digital Integration Lab (DIL)	In-House	PEO STRI (formerly STRICOM), Orlando, FL	655								655	655
SIMCI Program Support	CPFF	Alion Science & Technology	95	105	2-3Q	108	2-3Q	112	2-3Q	Cont.	Cont.	Cont.
Army Initialization Program	CPFF	Alion Science & Technology		183	2-3Q	188	2-3Q	94	2-3Q	Cont.	Cont.	Cont.
Subtotal:			750	288		296		206		Cont.	Cont.	Cont.
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 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 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program Management	Multiple	Various	8521	138	1-4Q	152	1-4Q	262	1-4Q	Cont.	Cont.	Cont.
Joint Training Intregation and Evaluation Center - Program Management	Multiple	Various				236	1-4Q				236	
SBIR/STTR						124					124	
Subtotal:			8521	138		512		262		Cont.	Cont.	Cont.
<b>Project Total Cost:</b>			<b>11984</b>	<b>3523</b>		<b>5364</b>		<b>3748</b>		<b>Cont.</b>	<b>Cont.</b>	<b>Cont.</b>

# Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604760A - Distributive Interactive Simulations (DIS) - Eng Dev**

PROJECT  
**C74**

Event Name	FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15			
	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	1	2	3	4
(1) JC3IEDM Software Development Toolkit									▲ <sub>1</sub>																							
(2) JC3IEDM Validator																	▲ <sub>2</sub>															
Sim Initialization Tool Dev and Transition																																
Productionize Thickening of DPDE Data																																
Integration of GEMS into OneSAF																																
Sensor Data Management Service Dev																																
JC3IEDM Ref Implementation Dev & Sust																																
Quarterly SIMCI OIPT Meeting																																
Annual Project Call																																

## Schedule Detail (R4a Exhibit)

May 2009

BUDGET ACTIVITY		PE NUMBER AND TITLE						PROJECT	
<b>5 - System Development and Demonstration</b>		<b>0604760A - Distributive Interactive Simulations (DIS) - Eng Dev</b>						<b>C74</b>	
<u>Schedule Detail</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>	<u>FY 2014</u>	<u>FY 2015</u>	
JC3IEDM Software Development Toolkit			1Q						
JC3IEDM Validator			1Q						
Sim Initialization Tool Dev and Transition	1Q - 4Q	1Q - 4Q							
Productionize Thickening of DPDE Data	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q					
Integration of GEMS into OneSAF	1Q - 4Q	1Q - 4Q	1Q						
Sensor Data Management Service Dev	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 2Q					
JC3IEDM Ref Implementation Dev & Sust	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 2Q					
Quarterly SIMCI OIPT Meeting	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	
Annual Project Call	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>	<b>PE NUMBER AND TITLE</b> <b>0604760A - Distributive Interactive Simulations (DIS) - Eng Dev</b>			<b>PROJECT</b> <b>C77</b>	
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
C77 Army Geospatial Data Master Plan	2063	673	342	Continuing	Continuing

**A. Mission Description and Budget Item Justification:** Project C77 addresses the development and maintenance 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 services 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.

<u>Accomplishments/Planned Program:</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
FY08: Funds enable the Topographical Engineering Center (TEC) to establish the Geospatial Acquisition Support Office (GASO). The GASO mission is to ensure successful development, integration, test and certification of GI&S* technologies across the Army acquisition community. GASO is responsible for data modeling, creation of standards, system-of-systems engineering, and certification of the geospatial enterprise Army-wide. *GI&S = Geospatial Information & Services.	2001		
FY08: Funds contribute to establishment of the Army geospatial data model.	62		
FY09 -10: Funds develop geospatial data standards and integrate geospatial data into the Army Battle Command (BC) systems.		654	342
Small Business Innovative Research/Small Business Technology Transfer		19	
<b>Total</b>	<b>2063</b>	<b>673</b>	<b>342</b>

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

**C. Acquisition Strategy** Resources are allocated to multiple organizations and contracts for approval and execution of projects in support of the AGDIMP.

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

May 2009

BUDGET ACTIVITY

**5 - System Development and Demonstration**

PE NUMBER AND TITLE

**0604760A - Distributive Interactive Simulations (DIS) - Eng Dev**

PROJECT

**C77**

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**May 2009**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>		<b>PE NUMBER AND TITLE</b> <b>0604760A - Distributive Interactive Simulations (DIS) - Eng Dev</b>			<b>PROJECT</b> <b>C78</b>	
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost	
C78 One Semi-Automated Forces (OneSAF)	12490	11680	11637	Continuing	Continuing	

**A. Mission Description and Budget Item Justification:** Project C78 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 -- One Semi-Automated Forces (OneSAF). OneSAF is a next-generation higher 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 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 FY10 program will continue the development of the software required to provide OneSAF Pre-Planned Product Improvements (P3Is) as prioritized and approved by the Training and Doctrine Command (TRADOC) Project Office.

<u><b>Accomplishments/Planned Program:</b></u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
FY08-FY10: Development of functionality to provide architectural services, components, synthetic environment and infrastructure capable of supporting initial model development.	2900	4367	5000
FY08-FY10: Development of functionality to represent behaviors, physical models and communication models for OneSAF.	5386	5025	4967
FY08-FY10: Verification and validation of newly developed and integrated software.	2204	1993	1670
FY08: Software Distribution and Equipment Training	2000		
Small Business Innovative Research/Small Business Technology Transfer		295	
<b>Total</b>	<b>12490</b>	<b>11680</b>	<b>11637</b>

<u><b>B. Other Program Funding Summary</b></u>	FY 2008	FY 2009	FY 2010	To Compl	Total Cost
OMA, 121014000	4937	4911	5055	Continuing	Continuing

Comment: OMA funds provide for maintenance of existing OneSAF life cycle software.

**C. Acquisition Strategy** Development of Pre-Planned Product Improvement (P3I) requirements is based on performance specifications via multiple task orders on competitively selected contracts.

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY			PE NUMBER AND TITLE							PROJECT		
5 - System Development and Demonstration			0604760A - Distributive Interactive Simulations (DIS) - Eng Dev							C78		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Architecture Dev & System Integration	CPFF	Science Applications International Corp, Orlando, FL	43960	2000	1-2Q	2834	1-2Q	2280	1-2Q	Cont.	Cont.	Cont.
Integrated Environment Dev	CPFF	Advanced Systems Technology, Inc., Orlando FL	8652	450	1Q	1000	1Q	1550	1Q	Cont.	Cont.	Cont.
Synthetic Environment Dev	CPFF	Science Applications International Corp, Orlando, FL	6590	400	1Q	400	1Q	600	1Q	Cont.	Cont.	Cont.
Knowledge Acquisition/Knowledge Engineering	CPFF	Aegis Technologies Group, Huntsville, AL	4834								4834	4834
OneSAF System Development	CPFF	Various	8898	350	1-2Q	200	1-2Q	301	1-2Q	Cont.	Cont.	Cont.
Model and Tools Development	CPFF	Science Applications International Corp, Orlando, FL	19138	2725	1-2Q	2800	1-2Q	3316	2Q	Cont.	Cont.	Cont.
NETT - SW Distribution and Training	CPFF	Aegis Technologies Group, Huntsville, AL	2400	2260	1-3Q						4660	
Subtotal:			94472	8185		7234		8047		Cont.	Cont.	Cont.
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
System Analysis	Various	Multiple	4227	550	1-3Q	500	1-3Q	200	1-3Q	Cont.	Cont.	Cont.
Domain Analysis	Various	Multiple	4037	350	1-3Q	294	1-3Q	220	1-3Q	Cont.	Cont.	Cont.
Architecture Engr & Tech Spt	C/CPFF	MITRE FFRDC	2406	290	2Q	290	2Q	300	2Q	Cont.	Cont.	Cont.
Subtotal:			10670	1190		1084		720		Cont.	Cont.	Cont.

# ARMY RDT&E COST ANALYSIS (R3)

May 2009

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604760A - Distributive Interactive Simulations (DIS) - Eng Dev**

PROJECT  
**C78**

III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 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	3954	1000	1-3Q	980	1-3Q	700	1-3Q	Cont.	Cont.	Cont.
OneSAF Verification, Validation & Accreditation	Various	WSMR, NM/Aberdeen Proving Grounds, MD/Multiple	4475	500	1-3Q	487	1-3Q	270	1-3Q	Cont.	Cont.	Cont.
Subtotal:			8429	1500		1467		970		Cont.	Cont.	Cont.
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Program management	Various	Multiple	8745	1615	1-4Q	1600	1-4Q	1900	1-4Q	Cont.	Cont.	Cont.
SBIR/STTR						295					295	
Subtotal:			8745	1615		1895		1900		Cont.	Cont.	Cont.
<b>Project Total Cost:</b>			<b>122316</b>	<b>12490</b>		<b>11680</b>		<b>11637</b>		<b>Cont.</b>	<b>Cont.</b>	<b>Cont.</b>

# Schedule Profile (R4 Exhibit)

May 2009

BUDGET ACTIVITY  
**5 - System Development and Demonstration**

PE NUMBER AND TITLE  
**0604760A - Distributive Interactive Simulations (DIS) - Eng Dev**

PROJECT  
**C78**

Event Name	FY 08				FY 09				FY 10				FY 11				FY 12				FY 13				FY 14				FY 15			
	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	1	2	3	4
<b>P3I Requirements Development</b>	P3I																															
(1) OneSAF Version Release 2.0	▲ 1																															
(2) OneSAF Version Release 3.0					▲ 2																											
(3) OneSAF Version Release 4.0									▲ 3																							
<b>OneSAF Support</b>	Life Cycle Software Support																															

## Schedule Detail (R4a Exhibit)

May 2009

BUDGET ACTIVITY		PE NUMBER AND TITLE						PROJECT
<b>5 - System Development and Demonstration</b>		<b>0604760A - Distributive Interactive Simulations (DIS) - Eng Dev</b>						<b>C78</b>
<u>Schedule Detail</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>	<u>FY 2014</u>	<u>FY 2015</u>
P3I Requirements Development	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q
OneSAF Version Release 2.0	2Q							
OneSAF Version Release 3.0		2Q						
OneSAF Version Release 4.0			2Q					
OneSAF Version Release 5.0				2Q				
OneSAF Version Release 6.0					2Q			
OneSAF Version Release 7.0						2Q		
OneSAF Version Release 8.0							2Q	
OneSAF Version Release 9.0								2Q
OneSAF Support	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2a Exhibit)

**May 2009**

<b>BUDGET ACTIVITY</b> <b>5 - System Development and Demonstration</b>	<b>PE NUMBER AND TITLE</b> <b>0604760A - Distributive Interactive Simulations (DIS) - Eng Dev</b>			<b>PROJECT</b> <b>C81</b>	
COST (In Thousands)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	Cost to Complete	Total Cost
C81 Joint Training Integration & Evaluation Center	1662				1662

**A. Mission Description and Budget Item Justification:** The Joint Training Integration and Evaluation Center (JTIEC) supports and actively participates with the Joint Forces Command (JFCOM), Joint Warfighting Center (JWFC), Joint National Training Capability (JNTC), and Joint Management Office (JMO) in combined effort to advance Joint Training. The mission of the JTIEC is aligned with the Joint Advanced Training Technology Lab (JATTL) and the Joint Development Integration Facility (JDIF) missions. The JTIEC was established to promote collaboration in the research, development, integration, interoperability, demonstration, evaluation, and verification & validation training technologies and products. The JTIEC serves as an integration and evaluation environment for training system and tools. It will serve as a common resource for evaluation of training technologies and products to address military and civilian training, education and performance requirements. Working with the JFCOM, JWFC, JNTC, JMO, the Center collaborates on the research, development, demonstration, evaluation and interoperability of training tools, live-virtual-constructive simulations, federations, architectures, databases and performance-measurement systems on projects of relevance to participating organizations, individual services and in support of Joint research & development, training exercises, mission rehearsal and experimentation. The JTIEC provides verification, validation, accreditation and certification capabilities and will be an integrated virtual battle space environment that provides connection to the JNTC as a persistent host site for Joint training exercises and experimentation. In this capacity, the Center will include capabilities such as joint training performance & effectiveness evaluations, site planning and setup, configuration control, and communications planning and setup. The JTIEC will connect to the JATTL and provide a technology integration environment and infrastructure for service research and development efforts while providing a connection to a Joint environment and exercises. Infrastructure upgrades will enable each service to conduct research and development efforts and provide a connection to the joint environment and exercises as part of the Joint Training and Experimentation Network (JTEN).

Project C74 includes a Congressional addition of \$1,630K for the Joint Training Integration & Evaluation Center. This was moved from C74 to C81 subsequent to the database lock for proper execution.

<u><b>Accomplishments/Planned Program:</b></u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
FY08: Integrate gaming technology.	581		
FY08: Continue functionality of the Joint development integration facility.	1081		
Total	1662		

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

**C. Acquisition Strategy** Not applicable for this item.