Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army										Date: March 2014	
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)*						**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*					

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	191.065	99.947	105.279	-	105.279	118.096	116.571	113.470	113.653	Continuing	Continuing
DU8: *Systems Under Evaluation (SUE) Analysis*	-	40.565	-	-	-	-	-	-	-	-	-	40.565
DU9: *System Of Systems Engineering*	-	9.017	-	-	-	-	-	-	-	-	-	9.017
DV1: *BCT Equipping Integration And Experimentation*	-	141.483	-	-	-	-	-	-	-	-	-	141.483
DY3: *NIE Test & Evaluation*	-	-	14.992	24.785	-	24.785	17.621	16.685	14.800	14.823	Continuing	Continuing
DY4: *Network Integration Support*	-	-	15.792	20.418	-	20.418	18.549	17.569	15.589	15.613	Continuing	Continuing
DY5: *Production/Field Coordination for Capability Sets*	-	-	4.198	2.802	-	2.802	4.953	4.681	4.145	4.155	Continuing	Continuing
DY6: *Brigade and Platform Integration Support*	-	-	44.576	43.606	-	43.606	52.996	54.940	58.807	58.895	Continuing	Continuing
DY7: *Army Systems Engineering, Architecture & Analysis*	-	-	14.392	9.642	-	9.642	16.913	16.016	14.209	14.231	Continuing	Continuing
DZ6: *Army Integration Management & Coordination*	-	-	5.997	4.026	-	4.026	7.064	6.680	5.920	5.936	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

The FY 2013 President's Budget submission was broken down into three projects to support the initial concept of execution of the Army's Agile process, they are:

Project DV1; BCT Equipment Integration and Experimentation, in FY 2013 it provided funds for development of the NIE architecture, Lab Based Risk Reduction, systems integration engineering for the NIE of both platforms and the Network, A-Kit development and vehicle integration, coordination of the NIE events, risk reduction activities, NIE test activities and data collection and analysis, and troubleshooting/fixing integration and network problems in support of the Network Integration Evaluation events.

Project DU8; Systems Under Evaluation Analysis and Integration, in FY 2013 it provided funding for the Industry and government programs that meet or exceed known technological gaps and funds prototypes (if required), FSR support, and platform and network integration into the Army's Network Integration Evaluation (NIE) Events.

Exhibit R-2, **RDT&E Budget Item Justification:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	

Project DU9; System of Systems Engineering, in FY 2013 in provided for the development of the Army's Baseline System of System Architecture and associated standards and guidelines, the supporting System of Systems Engineering to develop the standards and guidelines for the Army and the development and implementation of the Army's Common Operating Environment (COE) standards and validation and verification of systems against these standards.

The FY 2015 funding supports all of the efforts to plan and execute NIE 15.2 and 16.1 and Tactical Capability Set Synchronized Fielding Events. The specific evaluation requirements for these NIEs will be derived from the gaps identified by the users in the Afghanistan Theater and the lessons learned from NIEs 13.2 and 14.1. Current technologies are selected for integration into each Tactical Capability Set based upon its operational maturity relative to the Army's needs and its cost and schedule.

Project DY3; NIE Test & Evaluation, in FY 2015, it provides for the planning and conduct of detailed experiments (NIE evaluations), tests and evaluation of potential Network, Software and Hardware systems for procurement and integration into the Army's Warfighter system. It includes all test support activities such as Blade time for Helicopters, Satellite time for the network, med evacuation, and protection for the soldier.

Project DY4; Network Integration Support, in FY 2015, it provides for Network Integration of all Network Systems Under Evaluation (SUE) (industry and government) Hardware/Software into existing Communications Electronics Research, Development and Engineering Center (CERDEC) System Integration Laboratories at Aberdeen Proving Ground (APG) to simulate the Brigade Network for NIE and determine if new capabilities successfully resolve know gaps. It includes the refinement of US Army Training and Doctrine Command (TRADOC) developed requirements and development of the sources sought, Request For Proposal (RFP) and Horseblanket in support of upcoming NIE Events. It also conducts evaluations in the labs of industry and government SUEs to ensure the systems fulfill known capability gaps and are integrated into the network prior to going to the field base evaluation. Provides industry feedback of performance in the Lab and Network. Lab Based risk reduction is also funded by this line to improve Network performance prior and when in the field. It also includes any hardware and Field Service Representative (FSR) support required to support the lab based integration and risk reduction,

Project DY5; Production/Fielding Coordination for Tactical Capability Sets, in FY 2015, it provides for the development and coordination of Programs to produce, integrate, and field the NIE evaluated Brigade improvements to the Brigade Combat Teams (BCTs). This effort does not fund the production, or integration, or fielding of the Tactical Capability Set, but it does fund the coordination of requirements and integration along with scheduling of all activities for the Army through the supporting Program Executive Offices (PEOs), Program Managers (PMs) and Research, Development and Engineering Command (RDECOMs).

Project DY6; Brigade and Platform Integration Support, in FY 2015, it provides for the integration of the lab developed network solution onto soldier and vehicle systems to ensure an integrated network across the Brigade and battle field and the facility support requirements to complete these efforts. This includes contractor, FSR and Government support to conduct vehicle integration along with integration of the network and vehicles into a Brigade Combat Team (BCT) for the NIE test. This project funds the hardware and FSR support from contractors to support integration and evaluation. This includes the support for the four phases of integration and test evaluation conducted at the NIE. It also includes de-modification of vehicles after completion of the event. Provides industry and Army leadership feedback of performance from the NIE to decide what systems to procure and field as part of the Tactical Capability Set.

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army	Date: March 2014
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army I* BA 5: *System Development & Demonstration (SDD)*	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*

Project DY7; Army System Engineering, Architecture & Analysis, in FY 2015, it provides for basis of all Agile Process Planning and implementation. This includes the System of Systems SOS engineering and analysis that creates the Army top level architectures, Basis of Issue Plan (BOIP), and design that feed the planned Tactical Capability Sets, NIE plans, and Army Program Objective Memorandum (POM).

Project DZ6; Army Integration Management & Coordination, in FY 2015, it provides for all "shared" functions (Human resources, Budget development and executions, Acquisition, Operations, Program Coordination, Facilities management) and headquarters functions that supports the technical aspects of the Network integration, Platform integration, Brigade Integration and the Production Integration and coordination and synchronized fielding teams.

Execution of the above projects is in accordance with the Army Acquisition Executive's NIE and TCS Business Execution Ground Rules dated August, 1, 2012.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	214.270	193.748	205.000	-	205.000
Current President's Budget	191.065	99.947	105.279	-	105.279
Total Adjustments	-23.205	-93.801	-99.721	-	-99.721
• Congressional General Reductions	-17.207	-0.053			
• Congressional Directed Reductions	-	-93.748			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-5.998	-			
• Adjustments to Budget Years	-	-	-99.721	-	-99.721

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014	
Appropriation/Budget Activity 2040 I 5				R-1 Program Element (Number/Name) PE 0604798A I Brigade Analysis, Integration and Evaluation						Project (Number/Name) DU8 I Systems Under Evaluation (SUE) Analysis	

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
DU8: Systems Under Evaluation (SUE) Analysis	-	40.565	-	-	-	-	-	-	-	-	-	40.565
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

Note

This project (DU8) was created to support the Army's Brigade Analysis, Integration and Evaluation mission. The FY 2013 President Budget submission reflects Program Element (PE) 604798A broken down into three projects; DV1, DU8, and DU9. Beginning with FY 2014 Presidents Budget submission this PE is now broken down into six projects to better align the funding with the progressive changes to the development and execution of both Network Integration Events (NIE) and Tactical Capability Set-Synchronized Fielding (CS-SF) missions. These projects are: DY3; NIE Test Evaluation, DY4; Network Integration Support, DY5; Production /Fielding Coordination for Capability Sets, DY6; Brigade and Platform Integration Support, DY7; Army System Engineering, Architecture & Architecture & Analysis, and DZ6; Army Integration Management & Coordination. Beginning in FY 2014 the activities within this project are divided among all of the new Projects as outlined above.

A. Mission Description and Budget Item Justification

This project supports the integration of both industry and DOD emerging and existing technologies into the current Army force structure. It includes all integration and test support efforts for the Network Integration Evaluation (NIE)s, which includes; Lab Based Risk Reduction for Network Integration, Platform Integration of Network Components, Software loading exercises and checkout (LOADEX), and comprehensive communication exercises (COMMEX), culminating in the Army's NIE. The specific evaluation requirements for these NIEs will be derived from the gaps identified by the user based on lessons learned from Iraq, and Afghanistan and previous NIEs.

For industry SUEs, this project will integrate the industry SUE into the Network and onto a platform, if required. It will also purchase any additional hardware and support above and beyond the contractors proposed support. For Government SUEs, this project funds integration support that consists of FSRs to support integration and the test. If the NIE program requires additional prototypes above and beyond the Program of Record it will also purchase this equipment. This project also funds keeping the Network baseline up to date so that integration is always into the baseline network.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)

	FY 2013	FY 2014	FY 2015
Title: Systems Under Evaluation (SUE) Integrations	40.565	-	-
Articles:	-	-	-
Description: Funding is provided for the following effort: To support integration of both industry and DOD emerging and existing technologies into the current Army force structure. This includes all integration support and test support for 13.2 and 14.1 SUEs. FY 2013 Accomplishments:			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0604798A I Brigade Analysis, Integration and Evaluation	Project (Number/Name) DU8 I Systems Under Evaluation (SUE) Analysis

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
This effort included working with TRADOC and G-3/5/7 directorates to finalize the operational gaps and then to develop either a sources sought, Government Call for Mature Solutions or Requests For Proposals (RFP)s. This effort supported competitive select of industry and government SUEs to resolve identified gaps. This also included the development of Scope of work, evaluation and down-selection criteria and then evaluation of any and all sources sought and RFP proposals to include black box testing to verify that the hardware/software performs to the requirement. This effort included the management of the down-selections for each event, delivery of the final horseblanket architecture and design for each NIE. It also includes all program, information, security, business, schedule, personal management, network integration, evaluation, and reporting efforts required to support phases 1-3 of the NIE process. This effort also included the management and implementation of phase VI system recommendations and execution across the ASA(ALT) PEO community. Provided funding to support integration and evaluation, twice a year, of approximately 40 - 50 industry and government technologies which were being selected as Systems Under Evaluation (SUE) for participation into the Army's Network Integration Evaluation (NIE). These funds covered the NIE participant's (Emerging and existing technologies, Program Managers and contractors) costs for travel, and shipment of equipment, Contractor Field Service Representatives (CFSRs) and Government Subject Matter Experts (GSMEs) required to support integration activities, integration A-kit development, and the purchase of additional prototypes when needed to effectively complete detailed evaluations of the complete network architecture. Includes costs for development and fabrication of integration hardware and software. The participating units then deployed to the tactical training/evaluation area, White Sands Missile Range (WSMR) to complete a comprehensive rehearsal (4 weeks) in preparation for the detailed Network Integration Evaluation (2 weeks) event. NIE 13.2 included eight Systems Under Evaluation (SUEs) and four Systems Under Test (SUTs), one of which was an Acquisition Category 1D program. The results of NIE 13.2 recommended three SUTs and two SUEs for fielding. NIE 14.1 included four SUTs and nineteen SUEs; the Decision Point 3 for NIE 14.1 is scheduled to be held February 2014.			
Accomplishments/Planned Programs Subtotals	40.565	-	-

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

D. Acquisition Strategy
During the planning of NIE 11.1 through NIE 13.1 the government will focus on identifying and evaluating systems against the Army's known gaps and will utilize a Sources Sought solicitation to invite industry's participation in each NIE, which results in industry's participation at No Cost to the government. Beginning with NIE 13.2 the government will continue to focus on identifying and evaluating against the Army's identified gaps. For FY 2013 and out the government will use one of two acquisition strategies. First the government will issue a sources sought request to fill the known gaps. The government will then use either an existing government contract or an Request for Proposal (RFP) as the means of solicitation for industry's participation in the NIE, and will also include the participant's production options.

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DU8 *I Systems Under Evaluation (SUE) Analysis*

E. Performance Metrics

  N/A

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2015 Army														**Date:** March 2014	
Appropriation/Budget Activity 2040 *I* 5							**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*					**Project (Number/Name)** DU8 *I Systems Under Evaluation (SUE) Analysis*			

Support ($ in Millions)					FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	**Contract Method & Type**	**Performing Activity & Location**	**Prior Years**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
LBRR SUE HW & Integration Support	TBD	Various Note:1 : TBD	0.000	5.244	Oct 2012	-		-		-		-	-	5.244	-
NIE SUE HW & Integration Support	TBD	Various Note: 1 : TBD	0.000	35.321	Oct 2012	-		-		-		-	-	35.321	-
		Subtotal	0.000	40.565		-		-		-		-	-	40.565	-

Remarks
Note: 1
- All funding executed form SoSI (Warren)
- Program Activities performed at FT Bliss (TX), White Sands Missile Range (NM), Aberdeen Proving Ground (MD), TACOM (Warren MI)
- Program Integration support through various PMs, PEOs, RDECOM, and a multitude of small support and industry contractors.

	Prior Years	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO**	**FY 2015 Total**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Project Cost Totals	0.000	40.565	-	-	-	-	-	40.565	-

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DU8 *I Systems Under Evaluation (SUE) Analysis*

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
NIE 13.2 Planning - Execution																												
NIE 13.2 Decision Point 2																												
NIE 13.2 Lab Integration / Testing																												
NIE 13.2 LoadEx / ValEx																												
NIE 13.2 CommEx (1 week)																												
NIE 13.2 Event																												
NIE 13.2 Event Analysis & Summary																												
NIE 14.1 Planning - Execution																												
NIE 14.1 Industry Day																												
NIE 14.1 Decision Point 1																												
NIE 14.1 Decision Point 2																												
NIE 14.1 Lab Integration / Testing																												
NIE 14.1 LoadEx / ValEx																												
NIE 14.1 CommEx (1 week)																												
NIE 14.1 Event																												
NIE 14.1 Event Analysis & Summary																												

Exhibit R-4A, **RDT&E Schedule Details:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DU8 *I Systems Under Evaluation (SUE) Analysis*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
NIE 13.2 Planning - Execution	2	2012	3	2013
NIE 13.2 Decision Point 2	1	2013	1	2013
NIE 13.2 Lab Integration / Testing	1	2013	3	2013
NIE 13.2 LoadEx / ValEx	2	2013	3	2013
NIE 13.2 CommEx (1 week)	3	2013	3	2013
NIE 13.2 Event	3	2013	3	2013
NIE 13.2 Event Analysis & Summary	3	2013	3	2013
NIE 14.1 Planning - Execution	3	2012	1	2014
NIE 14.1 Industry Day	2	2013	2	2013
NIE 14.1 Decision Point 1	2	2013	2	2013
NIE 14.1 Decision Point 2	3	2013	3	2013
NIE 14.1 Lab Integration / Testing	3	2013	1	2014
NIE 14.1 LoadEx / ValEx	4	2013	4	2013
NIE 14.1 CommEx (1 week)	4	2013	4	2013
NIE 14.1 Event	1	2014	1	2014
NIE 14.1 Event Analysis & Summary	1	2014	1	2014

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army											Date: March 2014	

| Appropriation/Budget Activity
2040 I 5 | | | | R-1 Program Element (Number/Name)
PE 0604798A I Brigade Analysis,
Integration and Evaluation | | | | | | | Project (Number/Name)
DU9 I System Of Systems Engineering | |

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
DU9: *System Of Systems Engineering*	-	9.017	-	-	-	-	-	-	-	-	-	9.017
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

Note

This project (DU9) was created to support the Army's Brigade Analysis, Integration and Evaluation mission. The FY 2013 President Budget submission reflected Program Element (PE) 604798A broken down into three projects; DV1, DU8, and DU9. Beginning with the FY 2014 Presidents Budget submission this PE is now broken down into six projects to better align the funding with the progressive changes to the development and execution of both Network Integration Events (NIE) and Tactical Capability Set-Synchronized Fielding (CS-SF) missions. These projects are: DY3; NIE Test Evaluation, DY4; Network Integration Support, DY5; Production / Fielding Coordination for Capability Sets, DY6; Brigade and Platform Integration Support, DY7; Army System Engineering, Architecture & Architecture & Analysis, and DZ6; Army Integration Management & Coordination. Beginning in FY 2014 the activities within this project are divided among all of the new Projects as outlined above.

A. Mission Description and Budget Item Justification

This project provides the Army's leadership and materiel developers with the necessary system of systems analysis defining engineering and architectural products to manage and shape the Army's materiel portfolio; to ensure Systems Engineering discipline across the Materiel developer community throughout the acquisition life cycle and grow the System Engineering capability within the Army through education, engineering policy, guidelines and adoption of best industry practices. Create an environment that empowers the Acquisition Community through an unsurpassed agile, collaborative, productive, lean and trusted information enterprise.

This project establishes the capability to develop & deliver the architecture products that facilitate analysis & trades and provide timely relevant information to inform decision makers and guide the Army's efforts. This project provides for the development and implementation of a comprehensive set of system architectures & analysis results that can shape the Army's priorities and processes, and ensures that the analysis & architecture development capability across ASA (ALT) is cohesive within the Agile process. It provides for the overarching view of the Army's Reference System of Systems Architecture requirements and organizational responsibility, it provides for single authority within ASA (ALT) for Reference System Architecture oversight to manage governance and approvals of emerging designs, it also ensures the linkage of architecture products to events, processes, and customer requirements. It further establishes Reference Architectures for all Key components of the Network Architecture and all Army formations and installations, across time, that form the basis for representing and communicating the Army's programmed plan to Program Executive Officers / Program Managers (PEOs/PMs). It also enables trades and analyses that use these architecture data to support informed systems acquisition decisions across the life cycle. The data is organized in order to support views and analysis across organizational, portfolio, and budgeting bins.

In early 2012 the U.S. Army ASA(ALT) formally unveiled its Common Operating Environment (COE) Implementation Plan designed to help industry partners and Army program managers by offering an approved set of network standards, processes and products, designed to enable them to quickly and efficiently develop and field interoperable software capabilities. The plan helps establishes and makes public Army Network technical standards, which any sized vendor can understand, internalize

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0604798A I Brigade Analysis, Integration and Evaluation	Project (Number/Name) DU9 I System Of Systems Engineering

and build towards. This will help increase competition and help lower software and hardware integration burden and costs. The implementation plan is a living document that will remain flexible as the Army continues to evolve its network standards and fielding methods. The Army will continuously seek industry and service input as they transition to the COE. This project provides for technical support to oversee the execution of the COE Implementation plan, COE Orchestration, Verification and Validation (V&V), and Governance. It also provides for the development and execution of COE integration policies and procedures, the development and implementation of backwards capability testing, integration checklists and their verification, test hardware development and implementation support. Provides for COE architecture validation, design baseline validation, and the verification of COE reference architecture compliance. Provides for the accreditation, certification and refinement of test plans and events.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Army Systems Engineering & (COE) Development/Validation to Provide Technical Support for the Execution of the Army System Engineering and Architecture in COE Implementation System Engineering and Arch	9.017 -	- -	- -
Articles:			

Description: To provide technical support for the execution of the Army's Systems Engineer Architecture for COE.

FY 2013 Accomplishments:
The funds provided: Technical support to oversee the execution of the COE Implementation plan, COE Orchestration, Governance, Cross-Cutting Capabilities Definition, and Implementation Plan. Updated, Software Build (SWB)/COE Configuration Control Board (CCB) and Test Support transition, Integrated Master Schedule, Government oversight of the Army's Strategic Software Improvement Program (ASSIP), Coordination with Army Staff, Technical Reference Model, Metrics for assessing compliance, Technical Advisory Board (TAB), Chief Engineer (CE) compliance, COE assessment criteria. Assessed systems during the System Under Evaluation (SUE) Technical Interface Meeting (TIM), System software configuration baseline data collection, and System software configuration baseline updates, Control Point/Interface Definition and Agreements, Afghan Mission Network, Ops/Intel Convergence, Transport Convergence. Provided analytical support to Network Synchronization Working Group, Joint Interoperability & Mission Thread Architecture Office of Secretary Defense (OSD) Director Defense Research and Engineering (DDR&E), Integrated Base Defense, Basing and Basing Computing/Communications Analysis. Hosted Based Security System (HBSS), GNEC Implementation Plan, Radio Procurement Requests, and Organizing & Synchronizing of the Architecture space. Established Technical foundation for Army Network Architecture. Conducted Network Architecture Analysis for BCT formations, SoS Engineering Construct for the Network, Organizing the SoS Engineering trade space for Platforms, Standards for the Platforms (VICTORY & FACE), Size Weight and Power (SWAP) working group, Software Blocking (SW), and NIE Gaps. Conducted, Candidate Assessment for Upcoming NIE, and Technologies assessment, of Systems Engineering Plan (SEP) policy, and Program Protection Plan (PPP). Developed and Reviewed reviews, Reliability policy technical support, Standards & Speciation adoption across ASA(ALT), (OSD/Joint), the Development Planning model, Integrated Base Defense, and Basing Pilot) documents. It also provided for the development and execution of COE integration policies and procedures, the development and implementation of backwards capability testing, integration checklists and their verification,

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DU9 *I System Of Systems Engineering*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	**FY 2013**	**FY 2014**	**FY 2015**
test hardware development and implementation support. The development and effective utilization of emulator and integration tools. Provided for COE/CE architecture validation, design baseline validation, and the verification of COE reference architecture compliance. The verification of COE critical enabler implementation, conducting risk assessments and analysis, accreditation and certification process refinement, and verification of technical test harness and tool development. Provides for the accreditation, certification and refinement of test plans and events. FY13Additional Accomplishments: • Co-led Capability Set Management Board Working Group Established and led the Network Capability Set (NCS) Architecture Integrated Product Team (IPT) • Delivered the LandWarNet (LWN) NCS System of Systems (SoS) Reference Architecture (RA) & Specification (Coordinating Draft) • Delivered the LWN NCS Institutional SoS RA (Coordinating Draft) • Delivered IBD OCONUS Base Camps RA FY16 (Update) • Delivered IBD OCONUS Base Camps RA FY17 (Annual) • Delivered IBD CONUS Installations RA FY16 (Update) • Delivered IBD CONUS Installations RA FY17 (Annual) • Delivered Communications and Computing Infrastructure (CCI) OCONUS Base Camps RA FY16 (Annual) • Delivered Integrated Metrics Hierarchy for Base Camps (Joint product of ASA(ALT) / TRADOC / Office of Army Chief Engineer) • Achieved 3-Star Verification of the Communications and Computing Infrastructure (CCI), Integrated Base Defense (IBD) and Base Infrastructure (BI) OCONUS Base Camps Operational Architecture (OA) by Architecture Integration and Management Division (AIMD) of Army Capabilities Integration Center (ARCIC) of Training & Doctrine Command (TRADOC)			
Accomplishments/Planned Programs Subtotals	9.017	-	-

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

D. Acquisition Strategy
 Not applicable for this item.

E. Performance Metrics
 N/A

| Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army | | | | | | | | | | | | | Date: March 2014 | |

| Appropriation/Budget Activity
2040 I 5 | R-1 Program Element (Number/Name)
PE 0604798A I Brigade Analysis, Integration and Evaluation | Project (Number/Name)
DU9 I System Of Systems Engineering |

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Architecture	TBD	ASA(ALT), : Various Locations	0.000	1.824	Dec 2012	-	-	-	-	-	-	-	-	1.824	-
System Engineering and COE	TBD	ASA(ALT), : Various Locations	0.000	7.193	Dec 2012	-	-	-	-	-	-	-	-	7.193	-
Subtotal			0.000	9.017		-	-	-	-	-	-	-	-	9.017	-

			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.000	9.017		-		-		-		-	-	9.017	-

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 I 5	**R-1 Program Element (Number/Name)** PE 0604798A I Brigade Analysis, Integration and Evaluation	**Project (Number/Name)** DU9 I System Of Systems Engineering

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
FY13 Execution of COE Mission																												
FY13 Execution of COE Implementation Plan																												
FY13 Fielding of COE Version 1.0																												

Exhibit R-4A, **RDT&E Schedule Details:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DU9 *I System Of Systems Engineering*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
FY13 Execution of COE Mission	1	2013	4	2013
FY13 Execution of COE Implementation Plan	1	2013	3	2013
FY13 Fielding of COE Version 1.0	4	2013	4	2013

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										**Date:** March 2014	
Appropriation/Budget Activity 2040 I 5				**R-1 Program Element (Number/Name)** PE 0604798A I Brigade Analysis, Integration and Evaluation					**Project (Number/Name)** DV1 I BCT Equipping Integration And Experimentation		
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO** #	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
DV1: BCT Equipping Integration And Experimentation	-	141.483	-	-	-	-	-	-	-	-	-	141.483
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

Note

This project (DV1) was created to support the Army's Brigade Analysis, Integration and Evaluation mission. The Program Element 604798A is broken into three projects; Project DV1, includes all System of Systems Integration (SoSI) management effort and associated integrated support required to build the Brigade Network, integrate these capabilities on a brigade's tactical vehicles, and then evaluate the operational effectiveness of this brigade. Project DU8 provides funding for industry and government Systems Under Evaluation (SUEs) to bring new technologies to integrate into the brigade. Project DU9 funds the Army's development of the Division and Brigade architecture and standards to enable integration, commonality and compatibility. Project DV1's, R2a Exhibit "Accomplishments/Planned Program" has been restructured to better represent the activities required for network integration, platform integration, brigade integration, brigade evaluation, and eventual production and fielding.

A. Mission Description and Budget Item Justification

This project includes government and contractor efforts to integrate and validate that the Army is fielding platforms, components and software that are integrated together to provide increased capabilities for the soldier that are supportable and trainable. This project includes efforts associated with designing the Army's integrated network and associated architecture, developing the infrastructure and test plans, conducting the integration and risk reduction activities, evaluating the potential solutions, and determining the final solution set for the next Capability Package. It includes all integration and test/evaluations efforts for the Network Integration Evaluation (NIE) 13.2 and 14.1 events, which includes Lab Based Risk Reduction (LBRR), Network Integration, Software Loading Exercises (LOADEX) and checkout, comprehensive Communication Exercises (COMMEX), and culminates in the Army's Network Integration Evaluation (NIE) field event. The specific evaluation requirements for these NIEs are derived from the gaps identified by the users in the Afghanistan Theater and lessons learned from previous NIEs.

The Agile Process consists of the following phases, which are coordinated and executed by the System of Systems Integration (SoSI) Directorate, Brigade Modernization Command (BMC) and Army Test and Evaluation Command (ATEC): In Phase 0, Army Training and Doctrine Command (TRADOC) defines near-term gaps in current operational capabilities using existing Operational Needs Statements and relevant assessments from ongoing and past analyses. This analysis will be the basis for requirement sets for future Capability Packages. Network test and evaluation will focus on improving and integrating emerging and existing technologies to minimize existing operational gaps. During Phase I, SoSI solicits potential solutions from existing Army programs, tech base programs, and industry. Also during this phase, SoSI obtains buy-in from stakeholders, funding and support, establishes initial objectives, solidifies architecture objectives, and establishes the viable candidate list for the NIE. During Phase II, SoSI compiles the list of potential solutions that could meet the identified gaps and begins to develop the integration and testing concepts for the next capability package. Phase III includes the coordinated efforts between BMC, ATEC and SoSI to finalize the brigade architecture, integration and test plans, training materials and combat mission evaluations. Phase III also includes the initial integration phase where industry and Department of Defense

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0604798A I Brigade Analysis, Integration and Evaluation	Project (Number/Name) DV1 I BCT Equipping Integration And Experimentation

(DoD) network hardware and software are integrated and initially evaluated for follow-on consideration at a government integration and test facility located at Aberdeen Proving Ground (APG). The results of this initial evaluation determine which industry and DoD SUEs continue in the NIE process. It also develops the initial network configuration that will be used in execution of the NIE field event. During Phase IV, SoSI details plans and executes the integration of all hardware and software into the brigade network. The integration is validated and verified through the LBRR process. In Phase V, SoSI executes the in-depth NIE field event. Results of the NIE field event address and answer senior Army leadership's questions about force makeup and effectiveness, and provides Army leadership recommendations for improving operational requirements and enhancing technical specifications. The results of Phase V are utilized during Phase VI, where the Army determines which systems to procure and field to improve the Army's Network.

This project includes the following government efforts: System of system architecture and design standards for the NIE, Brigade Combat Team (BCT) Integration to support the NIE (hardware and software), A-Kit development and fabrication to support network integration onto platforms, integration of program of record, and non-program of record equipment and systems (both hardware and software) into a single synchronized network, BCT simulation to determine solution sets to potentially fill gaps, BCT experimentation and testing to validate and verify the increased capability for the soldier, and BCT Synchronized Fielding (logistics and training). Based on feedback from integration and testing, SoSI provides input and changes to both operational requirements and technical specification for improved operational capabilities. This project includes support to other DoD agencies for joint programs and collaboration efforts with SoSI and Capability Package portfolio integration. The government effort includes cost for salaries, travel, overtime, training, supplies, facilities, and Information Technology (IT) support.

FY 2014 will continue the NIE gaps and evaluation process. For example, during NIE 13.1 there were 5 Systems Under Test (SUTs) and 24SUEs evaluated against one of the Army's nine NIE 13.1 gaps. Out of the 96 SUE candidates that responded to the solicitation for NIE 13.1, the number of systems evaluated were 5 Systems Under Test (SUTs) and 24 SUEs. The NIE 13.2 gaps are: (1) Commander's Applications for Mobile and Handheld Platforms, (2) Brigade S6 Staff Element Working Group, (3) Command Post Collaboration and Visualization, (4) Company Information Architecture, (5) Network Operations Visualized in the COP, (6) Aerial Layer Network - Air Ground Integration, (7) Cyber Electromagnetic (CEM) Staff Element, and (8) Integrated Employment of LandWarNet. The NIE 14.1 gaps are: (1) Brigade/Battalion Company Command Post Mobility and Scalability, (2) Commander's Applications for Mobile and Handheld Devices , (3) Network Visualization on the Common Operational Picture, (4) Integrated LandWarNet, Installation Networks and Training Resources, (5) Aerial Layer Network Extension, (6) Air/Ground Network Architecture Roamers, (7) Low Overhead Products and Enablers for Home Station Small Unit Training, (8) Operational Energy – Monitor and Manage System Power, Supply and Demand, and (9) Operational Energy – Reduce Reliance on Petroleum Based Energy.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Test Experimentation	52.506	-	-
Articles:	-	-	-

Description: Funding is provided for the following effort:

FY 2013 Accomplishments:
Planned and conducted detailed experiments, tests and evaluations of 4 SUTs & 8 SUEs for NIE 13.2 and 4 SUTs and 19 SUEs for NIE 14.1which are potential Network, Software and Hardware systems for procurement and integration into the Army's Warfighter system. Completed test planning, coordination of requirements, assets planning, range planning and Soldier planning

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0604798A I Brigade Analysis, Integration and Evaluation	Project (Number/Name) DV1 I BCT Equipping Integration And Experimentation

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
for 4 key systems. Conducted test planning and management, which included coordination of requirements with Army Evaluation Command (AEC), Operational Test Center (OTC), and Developmental Test Command (DTC). This coordination included: development and procurement of modeling and simulation tools, instrumentation for data collection, maintaining facilities required for storing and maintaining equipment, and the facilities required to integrate capabilities, other test equipment, and REDFORCE systems. Conducted coordination for procuring range resources to include range time, range personnel, test engineering support, operators and subject matter experts on systems under evaluation. Included costs of management of the test/experiment and support all demonstrations experiments and tests. Included costs for distributed networking capability (i.e. DREN, I/O Range, circuits, etc) and other electronic infrastructure data transfer medias between APG, EPG, Ft. Bliss and White Sands Missile Range. Conducted coordination with AEC on the development of System Evaluation Plans (SEP) and Operational Milestone Assessment Reports (OMAR) and maintaining all data bases of evaluation analysis.			
Title: Integration Efforts: System of Systems Integration Directorate (SoSI) **Articles:**	59.049 -	- -	- -
Description: Provides for SoSI staff and facilities that supports the following three main operations: Capability Package Future: planning for future NIE events. Capability Package Current: planning and execution of current NIE events. Headquarters management and oversight of the complete Agile process. **FY 2013 Accomplishments:** Conducted planning with Government and contract personnel to develop the overarching plans for the Network Integration Evaluation (NIE). NIE 13.2 included eight Systems Under Evaluation (SUEs) and four Systems Under Test (SUTs), one of which was an Acquisition Category 1D program. The results of NIE 13.2 recommended three SUTs and two SUEs for fielding. NIE 14.1 included four SUTs and nineteen SUEs. Completed Capability Package (CP) development which included defining what is affordable, and defining what could be realistically accomplished within the NIE window. Conducted requirements traces across the NIE portfolio via current requirements analysis, which identified gaps, overlaps and solution sets. Conducted Network Analysis for the NIE through completion of initial and high-level fidelity reviews. In support of the NIE: conducted sources sought procedures; Request for Proposal (RFP) activities; completed evaluation of submissions; planed vignettes; completed architecture analysis; developed and published what systems participated in the NIE as either a System Under Test (SUT) or a System Under Evaluation (SUE); and defined which Tech Base capabilities would also be included in the evaluation. Conducted data and configuration management. Conducted vehicle integration and Size, Weight, and Power (SWaP) analysis in support of the NIE. Completed development of standardization of hardware and software to optimize integration and interoperability. Developed Network Operations (NETOPS) through defined communications settings, interfaces, configuration, and includes Traffic Engineering (Shared Networks) for Software Services and Communications in order to maximize the use of bandwidth. Developed and managed an Integrated Master Schedule (IMS). Developed budget and managed budget execution. Developed Knowledge Management plans and procedures into the NIE. Conducted security planning and technology services. Conducted			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DV1 *I BCT Equipping Integration And Experimentation*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
logistics development and planning in support of the NIE. Coordinated with ASA(ALT) as they assigned Program Managers to be Non-Program of Record (POR) SUE sponsors and as they determine which POR/SUEs are in each NIE. Conducted daily operations and the execution of the NIE plan by maintaining a daily battle rhythm, synchronizing the calendar, conducting operational meetings, developing and submitting reports, tracking and maintaining accountability of all assets and the operational scheduling of assets and personnel. Developed the brigade level architecture from the top level plan provided by CP Future which included: the development of detailed network designs for the Systems Under Test and Systems Under Evaluation, which were assigned to the maneuver brigades during the Network Integration Evaluation. Conducted detailed planning and development of the architecture, vignettes, and information assurance. Established metrics and measures across the SUTs/SUEs, and identified and implemented tools, data points and data collection measures for the NIE. Completed analysis and assessment of integrated experimental systems to determine optimal brigade configuration and the best solutions to fill the known requirements gaps. Conducted Information Assurance (IA), which includes planning/executing C4ISR/vehicle/platform integration, system checkout, and the coordination of system support between training and logistics assets. Coordinated Contractor Field Support Representatives (CFSRs) and Government Subject Matter Experts (GSME) to integrate hardware and software in support of the NIE events. Conducted infrastructure and facilities management, which included establishment/maintenance and communications tracking during the NIE within a 7,600 square mile footprint, and maintain IT and equipment support within buildings disbursed over 7,600 square miles. Set up and maintained security access for over an estimated 7,000 soldiers, government, contracted and industry personnel during the NIE. Conducted international, integration and interoperability procedures. Conducted Information Assurance (IA), accreditation and certification, which included test and verification, coordination for Designated Approval Authority (DAA) approvals, and all technology services. Conducted After Action Reviews (AARs) to provide Army leadership recommendations for improving operational requirements and enhancing technical specifications. Conducted command and control and staff support for the complete Agile Process, which included Program Management, Administrative, Tech Services, IT, Graphics, Defense Travel System (DTS) support, Facilities Execution, Knowledge Management Execution, Security Execution, Business Management, and Acquisition Management. Developed and supported budget submittals and all program inquiries. Conducted personnel management support for the SoSI directorate. Coordinated all higher headquarters, congressional, and media inquiries, questions and audits.			
Title: Architecture Development and System Engineering	13.914	-	-
Articles:	-	-	-
Description: These funds provides for government and contractor support staff to System of Systems Integration Director (SoSI) to support their technological specialty in completing the Agile Process, NIE Architecture, NIE System Engineering, and NIE Systems Integration. *FY 2013 Accomplishments:*			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DV1 *I BCT Equipping Integration And Experimentation*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Provided for Subject Matter Expertise from other Army PEOs and PMs that support SoSI in conducting the following: Assisted in developing and defining what was affordable and could be realistically accomplished within the integration and test NIE window to support future Capability Sets. Conducted requirements traces across the various Brigade Combat Team (BCT) portfolios by conducting current requirements analysis, identifying gaps and overlaps, and identifying solution sets. In support of the Agile processes, participated in sources sought procedures, completing evaluation of submissions, planning vignettes, and completing architecture analysis. Assisted in the development of the Network Operations (NETOPS) by defining communications settings, interfaces, and configuration which included; Traffic Engineering (Shared Networks) for Software Services & Communications in order to maximize the use of bandwidth. Support Information Assurance (IA) coordination. Participated in System Under Test/ System Under Evaluation (SUT/SUE) network integration assessments and analysis for NIE. Supported the development of the brigade level network architecture for the NIE events. Supported the detailed planning of the architecture and vignettes, and information assurance plan. Supported the establishment of metrics and measures across the SUTs/SUEs, identified and implemented tools, data points and data collection measures for each NIE. Assisted in integrating hardware and software from different systems into existing platforms. Supported the development of test tools and instrumentation to support data analysis, Army force structure and recommendations. Supported Information Assurance which included; plan/execute, Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance, (C4ISR)/vehicle/platform integration, system checkout, and the coordination of system support between training and logistics assets. Coordinated Contractor Field Support Representatives (CFSRs) and Government Subject Matter Experts (GSME), to integrate hardware and software in support of each NIE event. Conducted Information Assurance accreditation and certification which included; test but verify, coordinating for Designated Approving Authority (DAA) approvals, and all technology services. Applied lessons learned from the previous test cycle to improve tools, processes and procedures, while informing the Requirements, Budgeting and Acquisition processes. FY13 Accomplishments: • Conducted Network Architecture Systems reviews in support of CS 13 and CS14 • Delivered CS13 Implementation Architectures for 4 Brigade Combat Teams (BCT)s • Delivered CS14 Design Book to support 8 BCTs and 2 Division Headquarters • Delivered CS14 Reference Architecture to support 8 BCTs and 2 Division Headquarters			
Title: NIE Infrastructure **Articles:**	16.014 -	- -	- -
Description: Provides for Infrastructure, (facilities, Information Technology (IT) support, computers, Black Berries, program IA, etc.) at all SOSI locations. **FY 2013 Accomplishments:** Provided for setup, utilities, furniture, equipment and maintenance, of all facilities at Fort Bliss, TX (FTBX), White Sands Missile Range, NM (WSMR) , Warren, MI, Aberdeen Proving Ground, MD (APG), and Washington Capital Region. Included lease and			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis,* *Integration and Evaluation*	**Project (Number/Name)** DV1 *I BCT Equipping Integration And* *Experimentation*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
support maintenance of Government Service Administration (GSA)/Government Furnished Equipment (GFE) vehicles that support the NIE mission at FTBX/WSMR purchase or lease, integrate, and maintain telecommunications, routers, network management software, blackberries and PDAs, computers, Antennas, display screens, radios, and associated mounting hardware and cables to support NIE mission. Purchased and integrated computer software to support scheduling, Agile Request For Information (RFI) selection and evaluation process, budget process, integration analysis, modeling and simulation, network analysis, data collection, and analyzing test results. Included costs of facilities required to store/maintain/integrate capabilities on to military platforms.			
Accomplishments/Planned Programs Subtotals	141.483	-	-

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

D. Acquisition Strategy
 During the planning of NIE 13.2 the government will focus on identifying and evaluating systems against the Army's known gaps and will utilize a Sources Sought solicitation to invite industry's participation in each NIE, which results in industry's participation at No Cost to the government. For FY13 and out the government will use one of two acquisition strategies; First the government will issue a sources sought request to fill the known gaps (utilizing current practices), or the government will use either an existing government contract or a Request for Proposal (RFP) as the means of solicitation for industry's participation in the NIE, the RFP and contracts this will include a participant's production option.

E. Performance Metrics
 N/A

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2015 Army		**Date:** March 2014	

Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DV1 *I BCT Equipping Integration And Experimentation*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Network Design, Arch	TBD	Various Note:1 : TBD	0.000	8.652	Oct 2012	-		-		-		-	-	8.652	-
Network Integration	TBD	Various Note: 1 : TBD	0.000	17.141	Oct 2012	-		-		-		-	-	17.141	-
Platform/BDE Integration	TBD	Various Note: 1 : TBD	0.000	54.576	Oct 2012	-		-		-		-	-	54.576	-
Prod Coord and SYNC Fielding	TBD	Various Note: 1 : TBD	0.000	6.833	Oct 2012	-		-		-		-	-	6.833	-
SoSI SPM and Integration	TBD	Various Note:1 : TBD	0.000	17.246	Oct 2012	-		-		-		-	-	17.246	-
Subtotal			0.000	104.448		-		-		-		-	-	104.448	-

Remarks
Note:1
- All funding executed from SoSI (Warren MI)
- Program Activities performed at Ft Bliss (TX), White Sands Missile Range (NM), Aberdeen Proving Ground (MD), TACOM (Warren MI)
- Program Integration support through various PMs, PEOs, RDECOM, and a multitude of small support and industry contractors.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Infrastructure Support	Allot	Various Note: 1 : TBD	0.000	6.156	Oct 2012	-		-		-		-	-	6.156	-
Subtotal			0.000	6.156		-		-		-		-	-	6.156	-

Remarks
Note:1
- All funding executed from SoSI (Warren MI)
- Program Activities performed at Ft Bliss (TX), White Sands Missile Range (NM), Aberdeen Proving Ground (MD), TACOM (Warren MI)

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army													**Date:** March 2014	
Appropriation/Budget Activity 2040 *I* 5						**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis,* *Integration and Evaluation*					**Project (Number/Name)** DV1 *I BCT Equipping Integration And* *Experimentation*			

Test and Evaluation ($ in Millions)					**FY 2013**		**FY 2014**		**FY 2015** **Base**		**FY 2015** **OCO**		**FY 2015** **Total**				
Cost Category Item	**Contract** **Method** **& Type**	**Performing** **Activity & Location**	**Prior** **Years**	**Cost**	**Award** **Date**	**Cost**	**Award** **Date**	**Cost**	**Award** **Date**	**Cost**	**Award** **Date**	**Cost**	**Cost To** **Complete**	**Total** **Cost**	**Target** **Value of** **Contract**
Test Event/Optempo	TBD	Various Note:1 : TBD	0.000	30.879	Oct 2012	-		-		-		-	-	30.879	-
		Subtotal	0.000	30.879		-		-		-		-	-	30.879	-

Remarks
Note:1
- All funding executed from SoSI (Warren MI)
- Program Activities performed at Ft Bliss (TX), White Sands Missile Range (NM), Aberdeen Proving Ground (MD)

	Prior **Years**	**FY 2013**	**FY 2014**	**FY 2015** **Base**	**FY 2015** **OCO**	**FY 2015** **Total**	**Cost To** **Complete**	**Total** **Cost**	**Target** **Value of** **Contract**
Project Cost Totals	0.000	141.483	-	-	-	-	-	141.483	-

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DV1 *I BCT Equipping Integration And Experimentation*

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
NIE 13.2 Planning - Execution	██	██	██																									
NIE 13.2 Decision Point 2	██																											
NIE 13.2 Lab Integration / Testing	██	██	██																									
NIE 13.2 LoadEx / ValEx		██	██																									
NIE 13.2 CommEx (1 week)			██																									
NIE 13.2 Event			██																									
NIE 13.2 Event Analysis & Summary			██																									
NIE 14.1 Planning - Execution	██	██	██	██	██																							
NIE 14.1 Industry Day	██																											
NIE 14.1 Decision Point 1	██																											
NIE 14.1 Decision Point 2		██																										
NIE 14.1 Lab Integration / Testing		██	██	██																								
NIE 14.1 LoadEx / ValEx			██																									
NIE 14.1 CommEx (1 week)			██																									
NIE 14.1 Event				██																								
NIE 14.1 Event Analysis & Summary				██																								
CS 13 Build & Integration	██	██	██																									
CS 13 New Equipment Training (Upto 7 BDEs)	██	██	██	██	██																							
CS 13 New Equipment Fielding (Upto 7 BDEs)	██	██	██	██	██																							

Exhibit R-4A, **RDT&E Schedule Details:** PB 2015 Army				**Date:** March 2014		
Appropriation/Budget Activity 2040 *I* 5			**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DV1 *I BCT Equipping Integration And Experimentation*		

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
NIE 13.2 Planning - Execution	2	2012	3	2013
NIE 13.2 Decision Point 2	1	2013	1	2013
NIE 13.2 Lab Integration / Testing	1	2013	3	2013
NIE 13.2 LoadEx / ValEx	2	2013	3	2013
NIE 13.2 CommEx (1 week)	3	2013	3	2013
NIE 13.2 Event	3	2013	3	2013
NIE 13.2 Event Analysis & Summary	3	2013	3	2013
NIE 14.1 Planning - Execution	3	2012	1	2014
NIE 14.1 Industry Day	2	2013	2	2013
NIE 14.1 Decision Point 1	2	2013	2	2013
NIE 14.1 Decision Point 2	3	2013	3	2013
NIE 14.1 Lab Integration / Testing	3	2013	1	2014
NIE 14.1 LoadEx / ValEx	4	2013	4	2013
NIE 14.1 CommEx (1 week)	4	2013	4	2013
NIE 14.1 Event	1	2014	1	2014
NIE 14.1 Event Analysis & Summary	1	2014	1	2014
CS 13 Build & Integration	4	2012	4	2013
CS 13 New Equipment Training (Upto 7 BDEs)	1	2013	4	2014
CS 13 New Equipment Fielding (Upto 7 BDEs)	1	2013	4	2014

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014	

Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604798A / Brigade Analysis, Integration and Evaluation					Project (Number/Name) DY3 / NIE Test & Evaluation		

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
DY3: NIE Test & Evaluation	-	-	14.992	24.785	-	24.785	17.621	16.685	14.800	14.823	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project supports test and evaluation portion of Phase V of the Army's Agile Network Integration process. The project will conduct the actual Network Integration Evaluation at White Sands Missile Range, NM which evaluates the integrated soldier and weapon systems operational impact on the brigade to include DOTMLPF. The results of Phase V will address and answer senior Army leadership's questions about force makeup and effectiveness and provides Army leadership recommendations for improving operational requirements and enhancing technical specifications. The Army leadership will then determine which systems to procure and field in future Tactical Capability Sets to improve the Army's Network and Brigade Capability. This project includes government and contractor efforts to develop detailed test scenarios and evaluation criteria for field based evaluations of the Brigade Combat Team, and then conduct the evaluations and verifications of the Brigade as part of that NIE. As part of the evaluation process, this project includes the development of the data collection plans, the instrumentation of the systems in the Brigade, and also the data collectors and analysis of the test results. This project also includes the development and distribution of the detailed, technical evaluation reports which provides the ability to identify which equipment; needs further development, is ready for NIE participation, or is ready for integration into a future Tactical Capability Set. Lastly, this project includes all the costs for supporting the test, such as, but not limited to; SATCOM satellite time, MEDEVAC support during test, helicopter blade time, POL and other test support materials, equipment, personnel and facilities.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: NIE Test and Evaluation Costs	-	9.145	15.119
Articles:	-	-	-

Description: These funds provide for planning and conducting detailed experiments, tests and evaluations of potential Network, Software and Hardware systems for procurement and integration into the Army's Warfighter system.

FY 2014 Plans:
Complete test planning, coordination of requirements, assets planning, range planning and soldier planning. Conduct test planning and management which includes, conduct coordination of requirements with Army Evaluation Command (AEC), Operational Test Center (OTC), White Sands Missile Range (WSMR). This coordination includes; development and procurement of modeling and simulation tools, instrumentation for data collection, facilities required to store and maintain equipment, facilities required to integrate capabilities, other test equipment, and REDFORCE systems. Conduct experimentation, tests, and evaluation by coordinating and procuring range resources to include range time, range personnel, test engineering support, operators and subject matter experts on systems under evaluation. Includes costs of management of the test/experiment and support all demonstrations experiments and tests. Includes costs for distributed networking capability (i.e. Defense Research Engineering

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0604798A I Brigade Analysis, Integration and Evaluation	Project (Number/Name) DY3 I NIE Test & Evaluation

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
(DREN), I/O Range, circuits, etc) and other electronic infrastructure data transfer medias between Aberdeen Proving Grounds (APG), Electronic Proving Grounds (EPG), FT Bliss and White Sands Missile Range. Conduct coordination with AEC on the development of System Evaluation Plans (SEP) and Operational Milestone Assessment Reports (OMAR) and maintain all data bases of evaluation analysis. *FY 2015 Plans:* For baselining events, complete test planning, coordination of requirements, assets planning, range planning, and soldier planning. Conduct test planning and management which includes, conduct coordination of requirements with Army Evaluation Command (AEC), Operational Test Center (OTC), White Sands Missile Range (WSMR). This coordination includes; development and procurement of modeling and simulation tools, instrumentation for data collection, facilities required to store and maintain equipment, facilities required to integrate capabilities, other test equipment, and REDFORCE systems. Conduct experimentation, tests, and evaluation by coordinating and procuring range resources to include range time, range personnel, test engineering support, operators and subject matter experts on systems under evaluation. Includes costs of management of the test/experiment and support all demonstrations experiments and tests. Includes costs for distributed networking capability (i.e. Defense Research Engineering (DREN), I/O Range, circuits, etc) and other electronic infrastructure data transfer medias between Aberdeen Proving Grounds (APG), Electronic Proving Grounds (EPG), FT Bliss and White Sands Missile Range. Conduct coordination with AEC on the development of System Evaluation Plans (SEP) and Operational Milestone Assessment Reports (OMAR) and maintain all data bases of evaluation analysis.			
Title: Other Support Cost *Articles:*	- -	5.847 -	9.666 -
Description: Other Support Cost required for NIE Event. *FY 2014 Plans:* Procure and manage satellite time, POL, security support, facilities, MEDEVAC support, blade time for helicopters, and others services, equipment and maintenance of facilities to ensure a successful evaluation/test. *FY 2015 Plans:* Procure and manage satellite time, POL, security support, facilities, MEDEVAC support, blade time for helicopters, and others services, equipment and maintenance of facilities to ensure a successful evaluation/test.			
Accomplishments/Planned Programs Subtotals	-	14.992	24.785

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army									Date: March 2014	
Appropriation/Budget Activity 2040 *I* 5				**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*					**Project (Number/Name)** DY3 *I NIE Test & Evaluation*	

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• DY4: *DY4 Network Integration Support*	-	15.792	20.418	-	20.418	18.549	17.569	15.589	15.613	Continuing	Continuing
• DY5: *DY5 Production/Fielding Coordination for Capability Sets*	-	4.198	2.802	-	2.802	4.953	4.681	4.145	4.155	Continuing	Continuing
• DY6: *DY6 Brigade and Platform Integration Support*	-	44.576	43.606	-	43.606	52.996	54.940	58.807	58.895	Continuing	Continuing
• DY7: *DY7 Army Systems Engineering, Architecture and Analysis*	-	14.392	9.642	-	9.642	16.913	16.016	14.209	14.231	Continuing	Continuing
• DZ6: *DZ6 Army Integration & Coordination Management*	-	5.997	4.026	-	4.026	7.064	6.680	5.920	5.936	Continuing	Continuing

Remarks

D. Acquisition Strategy

This project includes Army Test Evaluation Center competitive contracts for test support services. Additional competitive contracts are awarded by Defense Information Systems Agency (DISA) for satellite support.

E. Performance Metrics

N/A

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2015 Army													**Date:** March 2014	
Appropriation/Budget Activity 2040 *I* 5						**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis,* *Integration and Evaluation*						**Project (Number/Name)** DY3 *I NIE Test & Evaluation*		

Support ($ in Millions)			**FY 2013**		**FY 2014**		**FY 2015** **Base**		**FY 2015** **OCO**		**FY 2015** **Total**			
Cost Category Item	**Contract Method & Type**	**Performing Activity & Location**	**Prior Years**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Other Support Costs	TBD	Various Note:1 : TBD	0.000	-		5.847	Nov 2013	9.666	Nov 2014	-		9.666	-	15.513	-
		Subtotal	0.000	-		5.847		9.666		-		9.666	-	15.513	-

Remarks
 Note: 1
 - All funding executed from SoSE&I (Warren MI)
 - Program Activities performed, Aberdeen Proving Grounds (MD), FT Bliss (TX), White Sands Missile Range (NM).
 - Includes support services from DISA (for satellite time) and other governments agencies

Test and Evaluation ($ in Millions)			**FY 2013**		**FY 2014**		**FY 2015** **Base**		**FY 2015** **OCO**		**FY 2015** **Total**			
Cost Category Item	**Contract Method & Type**	**Performing Activity & Location**	**Prior Years**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
NIE ATEC Test and Evaluation Costs	TBD	Various Note:1 : TBD	0.000	-		9.145	Nov 2013	15.119	Nov 2014	-		15.119	-	24.264	-
		Subtotal	0.000	-		9.145		15.119		-		15.119	-	24.264	-

Remarks
 Note: 1
 - All funding executed from SoSE&I (Warren MI)
 - Program Activities performed at Aberdeen Proving Ground (MD), Electronic Proving Grounds (AZ), FT Bliss (TX), White Sands Missile Range (NM).
 - Program Test support through ATEC

	Prior Years	**FY 2013**	**FY 2014**	**FY 2015** **Base**	**FY 2015** **OCO**	**FY 2015** **Total**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Project Cost Totals	0.000	-	14.992	24.785	-	24.785	-	39.777	-

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY3 *I NIE Test & Evaluation*

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
NIE 14.2 Planning - Execution		■																										
NIE 14.2 Industry Day			■																									
NIE 14.2 DP 1				■																								
NIE 14.2 DP 2					■																							
NIE 14.2 Lab Integration/Testing					▬▬▬																							
NIE 14.2 Candidate Solution Integration						■																						
NIE 14.2 LoadEx						▬																						
NIE 14.2 CommEx							■																					
NIE 14.2 Pilot							■																					
NIE 14.2 Event							■																					
NIE 14.2 Event Analysis & Summary							■																					
NIE 15.1 Planning - Execution			▬▬▬																									
NIE 15.1 Industry Day				■																								
NIE 15.1 DP 1					■																							
NIE 15.1 DP 2						■																						
NIE 15.1 Lab Integration/Testing						▬▬▬																						
NIE 15.1 Candidate Solution Integration						▬▬																						
NIE 15.1 LoadEx							■																					
NIE 15.1 CommEx							▬																					
NIE 15.1 Pilot							■																					
NIE 15.1 Event							■																					
NIE 15.1 Event Analysis & Summary							■																					
NIE 15.2 Planning - Execution					▬▬▬▬																							
NIE 15.2 Industry Day						■																						

PE 0604798A: *Brigade Analysis, Integration and Evaluation*
Army

R-1 Line #101

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604798A / Brigade Analysis, Integration and Evaluation	**Project (Number/Name)** DY3 / NIE Test & Evaluation

Schedule (Fiscal Year / Quarter):

Activity	FY 2013 (1 2 3 4)	FY 2014 (1 2 3 4)	FY 2015 (1 2 3 4)	FY 2016 (1 2 3 4)	FY 2017 (1 2 3 4)	FY 2018 (1 2 3 4)	FY 2019 (1 2 3 4)
NIE 15.2 DP 1		Q4					
NIE 15.2 DP 2		Q4					
NIE 15.2 Lab Integration/Testing			Q1–Q2				
NIE 15.2 Candidate Solution Integration			Q2				
NIE 15.2 LoadEx			Q1–Q2				
NIE 15.2 CommEx			Q2–Q3				
NIE 15.2 Pilot			Q2–Q3				
NIE 15.2 Event			Q2–Q3				
NIE 15.2 Event Analysis & Summary			Q2–Q3				
NIE 16.1 Planning - Execution		Q4	Q1–Q4				
NIE 16.1 Industry Day		Q4					
NIE 16.1 DP 1			Q1				
NIE 16.1 DP 2			Q1				
NIE 16.1 Lab Integration/Testing			Q3–Q4				
NIE 16.1 Candidate Solution Integration			Q3				
NIE 16.1 LoadEx			Q3				
NIE 16.1 CommEx			Q3–Q4				
NIE 16.1 Pilot			Q4				
NIE 16.1 Event			Q4				
NIE 16.1 Event Analysis & Summary			Q4				

Exhibit R-4A, **RDT&E Schedule Details:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY3 *I NIE Test & Evaluation*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
NIE 14.2 Planning - Execution	2	2013	2	2013
NIE 14.2 Industry Day	3	2013	3	2013
NIE 14.2 DP 1	4	2013	4	2013
NIE 14.2 DP 2	1	2014	1	2014
NIE 14.2 Lab Integration/Testing	1	2014	3	2014
NIE 14.2 Candidate Solution Integration	2	2014	2	2014
NIE 14.2 LoadEx	2	2014	3	2014
NIE 14.2 CommEx	3	2014	3	2014
NIE 14.2 Pilot	3	2014	3	2014
NIE 14.2 Event	3	2014	3	2014
NIE 14.2 Event Analysis & Summary	3	2014	3	2014
NIE 15.1 Planning - Execution	3	2013	1	2014
NIE 15.1 Industry Day	1	2014	1	2014
NIE 15.1 DP 1	2	2014	2	2014
NIE 15.1 DP 2	3	2014	3	2014
NIE 15.1 Lab Integration/Testing	3	2014	1	2015
NIE 15.1 Candidate Solution Integration	3	2014	4	2014
NIE 15.1 LoadEx	4	2014	4	2014
NIE 15.1 CommEx	4	2014	1	2015
NIE 15.1 Pilot	1	2015	1	2015
NIE 15.1 Event	1	2015	1	2015
NIE 15.1 Event Analysis & Summary	1	2015	1	2015

Exhibit R-4A, **RDT&E Schedule Details:** PB 2015 Army				**Date:** March 2014	
Appropriation/Budget Activity 2040 *I* 5		**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*		**Project (Number/Name)** DY3 *I NIE Test & Evaluation*	

	Start		**End**	
Events	**Quarter**	**Year**	**Quarter**	**Year**
NIE 15.2 Planning - Execution	2	2014	3	2015
NIE 15.2 Industry Day	3	2014	3	2014
NIE 15.2 DP 1	4	2014	4	2014
NIE 15.2 DP 2	4	2014	4	2014
NIE 15.2 Lab Integration/Testing	1	2015	3	2015
NIE 15.2 Candidate Solution Integration	2	2015	2	2015
NIE 15.2 LoadEx	2	2015	3	2015
NIE 15.2 CommEx	3	2015	3	2015
NIE 15.2 Pilot	3	2015	3	2015
NIE 15.2 Event	3	2015	3	2015
NIE 15.2 Event Analysis & Summary	3	2015	3	2015
NIE 16.1 Planning - Execution	3	2014	1	2016
NIE 16.1 Industry Day	1	2015	1	2015
NIE 16.1 DP 1	2	2015	2	2015
NIE 16.1 DP 2	2	2015	2	2015
NIE 16.1 Lab Integration/Testing	3	2015	1	2016
NIE 16.1 Candidate Solution Integration	4	2015	4	2015
NIE 16.1 LoadEx	4	2015	4	2015
NIE 16.1 CommEx	4	2015	1	2016
NIE 16.1 Pilot	1	2016	1	2016
NIE 16.1 Event	1	2016	1	2016
NIE 16.1 Event Analysis & Summary	1	2016	1	2016

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army											Date: March 2014	
Appropriation/Budget Activity 2040 *I* 5				**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*					**Project (Number/Name)** DY4 *I Network Integration Support*			

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
DY4: *Network Integration Support*	-	-	15.792	20.418	-	20.418	18.549	17.569	15.589	15.613	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

\# The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project supports Phases I through IV of the Army's Agile process. Phase I solicits potential solutions from existing Army programs, tech base programs, and industry to eliminate capability gaps in the current force structure. It establishes initial objectives, solidifies the architecture baseline and will establish a viable candidate list for Network Integration Evaluation (NIE). During Phase II, the project supports the compilations of potential solutions that could meet the US Army Training and Doctrine Command (TRADOC) identified gaps and begins to develop the integration and testing concepts for the NIE. Phase III includes the coordinated efforts between System of Systems Integration (SOSI), Brigade Modernization Command (BMC) at Ft Bliss and the Army Test and Evaluation Command (ATEC) to finalize the brigade architecture "horseblanket", integration and test plans, training materials and combat mission evaluations. Phase III also includes the initial integration phase where industry and government System Under Evaluation (SUE) hardware and software are integrated and initially evaluated for follow-on consideration at Aberdeen Proving Ground's (APG) Communications Electronics Research, Development and Engineering Center (CERDEC) labs through the Lab Based Risk Reduction (LBRR) process. This effort continues into Phase IV as the network matures and becomes functional in the Lab. The results of this detailed lab based testing/evaluations will determine which industry and government SUEs will continue in the NIE (Phases IV/V of the Army's Agile Network Integration process) and develops the initial Network configuration that will be used in NIE. It also reduces risk to NIE execution by testing the Network in the lab, resolving issues found in the Network lab test and optimizing the Networks performance. This is done in a lab environment that facilitates very efficient, cost effective determination of problems, and their subsequent corrections. This project provides for Network Integration of all SUEs (industry and government) Hardware/Software into existing CERDEC System Integration Laboratories at APG to simulate the Brigade Network for NIE and it determines if new capabilities successfully resolve known gaps and meets network performance requirements.

For industry SUEs, this project will integrate the industry SUE into the Network at the CERDEC labs which helps industry to include small businesses, interface and integrate with Government programs of record with unique military secure interfaces and protocols. It also provides industry with technical assessment of their products in respect to Army know gaps/requirements. Purchase of any additional hardware and support above and beyond the contractors proposed support if required for Lab Based Risk Reduction is also funded within this project. For Government SUEs, this project funds integration support at the CERDEC Labs. If the NIE program requires additional prototypes above and beyond the Program of Record for the Lab based Risk Reduction, it will also purchase this equipment. This project also funds keeping the Network baseline up to date so that integration is always into the current baseline network.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)

	FY 2013	FY 2014	FY 2015
Title: NIE Network Integration and Lab Based Risk Reduction	-	9.311	12.043
Articles:	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0604798A I Brigade Analysis, Integration and Evaluation	Project (Number/Name) DY4 I Network Integration Support

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Description: These funds provide for the following: Network Integration of all industry and government SUEs, SUTs, and baseline Hardware/Software into existing CERDEC System Integration Laboratories at Aberdeen Proving Grounds (APG) to simulate the Brigade Network for NIE and determine if SUE's capabilities successfully resolve known gaps. *FY 2014 Plans:* The funding provides for the Lab Based Network Analysis and evaluations for NIE 14.2 and NIE 15.1 Brigade Network. In the CERDEC labs, engineers create a representative NIE network architecture incorporating radios, satellite-based systems, handheld devices, mission command applications, routers, software, cables and other network components. Through a combination of actual and simulated hardware and software they recreate the end-to-end NIE network, allowing industry and government organizations the ability to "plug" their systems into the NIE architecture for early assessment and integration risk mitigation. The lab activity validates the NIE network architecture products and network configurations using a Brigade-scale network consisting of a mixture of live and virtualized hardware and software. Products include; plans/execution/reports of the following: system level specification verification, instrumentation verification, pre-event analysis, Network Integration Requirements Levels, Measures of Performance, communication load plan, automated performance assessment of technical, configuration control, transport and software basis of issue, instrumentation plan, field troubleshooting and reach back support during event execution, routing design for NIE, and technical input to the reports to industry of system performance and issues. *FY 2015 Plans:* The funding provides for the Lab Based Network Analysis and evaluations for NIE 15.2 and NIE 16.1 Brigade Network. In the CERDEC labs, engineers create a representative NIE network architecture incorporating radios, satellite-based systems, handheld devices, mission command applications, routers, software, cables and other network components. Through a combination of actual and simulated hardware and software they recreate the end-to-end NIE network, allowing industry and government organizations the ability to "plug" their systems into the NIE architecture for early assessment and integration risk mitigation. This effort plans and conducts detailed Network experiments. The lab activity validates the NIE network architecture products and network configurations using a Brigade-scale network consisting of a mixture of live and virtualized hardware and software. Products include; plans/execution/reports of the following: system level specification verification, instrumentation verification, pre-event analysis, Network Integration Requirements Levels, Measures of Performance, communication load plan, automated performance assessment of technical, configuration control, transport and software basis of issue, instrumentation plan, field troubleshooting and reach back support during event execution, routing design for NIE, and technical input to the reports to industry of system performance and issues.			
Title: NIE and LBRR Requirements Definition Support	-	4.442	5.740
Articles:	-	-	-

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0604798A I Brigade Analysis, Integration and Evaluation	Project (Number/Name) DY4 I Network Integration Support

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Description: These funds provide for all government and contract personnel and equipment which work with TRADOC and Army G-3/5/7 to finalize the architecture, requirements, and horseblanket for each NIE. **FY 2014 Plans:** This effort includes working with TRADOC and G-3/5/7 directorates and ASA(ALT) PEOs to finalize the operational gaps and then to develop either sources sought or Requests For Proposals (RFP)s to competitively select industry and government SUEs to resolve these gaps. This also includes the development of Scope of works, evaluation and down-selection criteria and then evaluation of any and all sources sought and RFP proposals to verify that the hardware/software performs to the requirement. This effort includes management of the down-selections for each event, development and delivery of the final implementation horseblanket architecture and design for each NIE. It also includes all program, information, security, business, schedule, personal management, network integration, evaluation, and reporting efforts required to support phases 1-3 of the NIE process. This effort also includes the management and implementation of phase VI system recommendations across the ASA(ALT) PEO communities. **FY 2015 Plans:** This effort includes working with TRADOC and G-3/5/7 directorates and ASA(ALT) PEOs to finalize the operational gaps and then to develop either sources sought or Requests For Proposals (RFP)s to competitively select industry and government SUEs to resolve these gaps. This also includes the development of Scope of works, evaluation and down-selection criteria and then evaluation of any and all sources sought and RFP proposals to include black box testing to verify that the hardware/software performs to the requirement. This effort includes management of the down-selections for each event, development and delivery of the final implementation horseblanket architecture and design for each NIE. It also includes all program, information, security, business, schedule, personal management, network integration, evaluation, and reporting efforts required to support phases 1-3 of the NIE process. This effort also includes the management and implementation of phase VI system recommendations across the ASA(ALT) PEO communities.			
Title: NIE SUE Hardware/Software for Lab & FSR Support for Network Integration	-	1.379	1.782
Articles:	-	-	-
Description: The effort includes procurement of Hardware and Software required by the Lab to fully simulate the Brigade Network it includes the FSR Support from Contractors to fully integrate their systems into the Network. **FY 2014 Plans:** Provides funding to support Network integration and evaluation at the CERDEC Lab at APG. This supports semi-annual Network Integration of industry and government technologies which are being selected as Systems Under Evaluation (SUE) for participation into the Army's Network Integration Evaluations (NIE) 14.2 & 15.1. These funds cover the selected SUE's			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis,* *Integration and Evaluation*	**Project (Number/Name)** DY4 *I Network Integration Support*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
participation in the lab integration event. This includes contractor's costs for travel, and shipment of equipment, Contractor Field Service Representatives (CFSRs) required to support Network integration activities, and the purchase of additional prototypes required for the CERDEC Lab when needed to effectively complete detailed evaluations of the complete brigade network architecture *FY 2015 Plans:* Provides funding to support Network integration and evaluation at the CERDEC Lab at APG. This supports semi-annual Network Integration of industry and government technologies which are being selected as Systems Under Evaluation (SUE) for participation into the Army's Network Integration Evaluations (NIE) 15.2 & 16.1. These funds cover the selected SUE's participation in the lab integration event. This includes contractor's costs for travel, and shipment of equipment, Contractor Field Service Representatives (CFSRs) required to support Network integration activities, and the purchase of additional prototypes required for the CERDEC Lab when needed to effectively complete detailed evaluations of the complete brigade network architecture.			
Title: Facilities and IT Support	-	0.660	0.853
Articles:	-	-	-
Description: Provides funding for infrastructure/facilities and IT support. *FY 2014 Plans:* Provides funding for infrastructure/facilities. In addition it includes the cost for IT support from Network connectivity for purchasing/ leasing hardware, software, computers, communications equipment and services for the government staff. *FY 2015 Plans:* Provides funding for infrastructure/facilities. In addition it includes the cost for IT support from Network connectivity for purchasing/ leasing hardware, software, computers, communications equipment and services for the government staff.			
Accomplishments/Planned Programs Subtotals	-	15.792	20.418

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• DY3: *DY3 NIE Test & Evaluation*	-	14.992	24.785	-	24.785	17.621	16.685	14.800	14.823	Continuing	Continuing
• DY5: *DY5 Production/Fielding Coordination for Capability Sets*	-	4.198	2.802	-	2.802	4.953	4.681	4.145	4.155	Continuing	Continuing
• DY6: *DY6 Brigade and Platform Integration Support*	-	44.576	43.606	-	43.606	52.996	54.940	58.807	58.895	Continuing	Continuing

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY4 *I Network Integration Support*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• DY7: *DY7 Army Systems Engineering, Architecture and Analysis*	-	14.392	9.642	-	9.642	16.913	16.016	14.209	14.231	Continuing	Continuing
• DZ6: *DZ6 Army Integration & Coordination Management*	-	5.997	4.026	-	4.026	7.064	6.680	5.920	5.936	Continuing	Continuing

Remarks

D. Acquisition Strategy

During the planning of NIE 13.2 the government focused on identifying and evaluating systems against the Army's known gaps and utilized a Sources Sought solicitation to invite industry's participation in each NIE. Industry's initial white paper submissions for participation at NIE generally result in no Cost to the government. But there are exceptions, which yield cost such as ensuring small business can participate and if the government needs additional FSR support or hardware to fully represent the Brigade requirements. For FY 2013 and out, the government will use one of two acquisition strategies; First the government will issue a sources sought request to fill the known gaps (utilizing current practices), or the government will use either an existing government contract or a Request for Proposal (RFP) as the means of solicitation for industry's participation in the NIE, the RFP and contracts this will include a participant's production option. The Sources Sought process will be used to help clarify gaps definition and solution sets, where as RFPs will be used when the government's technical community can define the commodity desired to fill a gap with clear and concise selection criteria. The Army is developing a DA PAM to document this process.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604798A / Brigade Analysis, Integration and Evaluation	**Project (Number/Name)** DY4 / Network Integration Support

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
NIE Network Integration and Lab Based Risk Reduction	TBD	Various Note: 1 : TBD	0.000	-		8.326	Nov 2013	12.043	Nov 2014	-		12.043	-	20.369	-
Subtotal			0.000	-		8.326		12.043		-		12.043	-	20.369	-

Remarks
Note:1
- All funding executed from SoSE&I (Warren MI)
- Program Activities performed at Aberdeen Proving Ground (MD), TACOM (Warren MI), Taylor Bldg, (Crystal City, VA), FT Bliss (TX), .
- Program Integration support through various PMs, PEOs, RDECOM, and a multitude of small support and industry contractors.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
NIE and LBRR Requirements Definition Support	TBD	Various Note: 1 : TBD	0.000	-		2.718	Nov 2013	5.740	Nov 2014	-		5.740	-	8.458	-
NIE SUE Hardware/ Software for Lab & FSR Support for Network Integration	TBD	Various Note: 1 : TBD	0.000	-		4.014	Nov 2013	1.782	Nov 2014	-		1.782	-	5.796	-
Facilities and IT Support	TBD	Various Note: 1 : TBD	0.000	-		0.734	Nov 2013	0.853	Nov 2014	-		0.853	-	1.587	-
Subtotal			0.000	-		7.466		8.375		-		8.375	-	15.841	-

Remarks
Note: 1
- All funding executed from SoSE&I (Warren MI)
- Program Activities performed at Aberdeen Proving Ground (MD), TACOM (Warren MI), Taylor Bldg, (Crystal City, VA)

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army								**Date:** March 2014	

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / Brigade Analysis, Integration and Evaluation	Project (Number/Name) DY4 / Network Integration Support

	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	-	15.792	20.418	-	20.418	-	36.210	-

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604798A / Brigade Analysis, Integration and Evaluation	**Project (Number/Name)** DY4 / Network Integration Support

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
NIE 14.2 Planning - Execution																												
NIE 14.2 Industry Day																												
NIE 14.2 DP 1																												
NIE 14.2 DP 2																												
NIE 14.2 Lab Integration/Testing																												
NIE 14.2 Candidate Solution Integration																												
NIE 14.2 LoadEx																												
NIE 14.2 CommEx																												
NIE 14.2 Pilot																												
NIE 14.2 Event																												
NIE 14.2 Event Analysis & Summary																												
NIE 15.1 Planning - Execution																												
NIE 15.1 Industry Day																												
NIE 15.1 DP 1																												
NIE 15.1 DP 2																												
NIE 15.1 Lab Integration/Testing																												
NIE 15.1 Candidate Solution Integration																												
NIE 15.1 LoadEx																												
NIE 15.1 CommEx																												
NIE 15.1 Pilot																												
NIE 15.1 Event																												
NIE 15.1 Event Analysis & Summary																												

Exhibit R-4A, **RDT&E Schedule Details:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY4 *I Network Integration Support*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
NIE 14.2 Planning - Execution	2	2013	3	2014
NIE 14.2 Industry Day	3	2013	3	2013
NIE 14.2 DP 1	4	2013	4	2013
NIE 14.2 DP 2	1	2014	1	2014
NIE 14.2 Lab Integration/Testing	1	2014	3	2014
NIE 14.2 Candidate Solution Integration	2	2014	2	2014
NIE 14.2 LoadEx	2	2014	3	2014
NIE 14.2 CommEx	3	2014	3	2014
NIE 14.2 Pilot	3	2014	3	2014
NIE 14.2 Event	3	2014	3	2014
NIE 14.2 Event Analysis & Summary	3	2014	3	2014
NIE 15.1 Planning - Execution	3	2013	1	2015
NIE 15.1 Industry Day	1	2014	1	2014
NIE 15.1 DP 1	2	2014	2	2014
NIE 15.1 DP 2	3	2014	3	2014
NIE 15.1 Lab Integration/Testing	3	2014	1	2015
NIE 15.1 Candidate Solution Integration	3	2014	4	2014
NIE 15.1 LoadEx	4	2014	4	2014
NIE 15.1 CommEx	4	2014	1	2015
NIE 15.1 Pilot	1	2015	1	2015
NIE 15.1 Event	1	2015	1	2015
NIE 15.1 Event Analysis & Summary	1	2015	1	2015

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014	
Appropriation/Budget Activity 2040 I 5				**R-1 Program Element (Number/Name)** PE 0604798A I Brigade Analysis, Integration and Evaluation					**Project (Number/Name)** DY5 I Production/Field Coordination for Capability Sets		

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
DY5: *Production/Field Coordination for Capability Sets*	-	-	4.198	2.802	-	2.802	4.953	4.681	4.145	4.155	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project provides for the development of a coordinated plan for the Production (Integrating components onto vehicle systems) and Fielding (logistics and training) of those Brigade components (both hardware/software in A and/or B Kits) and Division/Corps components (used primarily on the Command Post computing environment) that successfully passed the Network Integration Evaluation (NIE) and have been certified as interoperable for fielding through Army Interoperability Certification events and were approved by the Army's Leadership to be incorporated in subsequent Capability Sets (CS). This project request funds for the coordination of the required activity plan with the applicable Program of Records (PEOs/PMs). This project does not fund the actual production, integration, nor fielding costs associated with the Tactical Capability Set. This project includes government and contractor efforts to integrate and validate that the Army is fielding platforms, components and software that are integrated together to provide increased capabilities for the soldier that are supportable and trainable.

This project includes the following efforts: Provides oversight and direct coordination between participating PEOs, PMs, RDECOMs and the Army's Brigade Combat Teams (BCT) receiving the Tactical Capability Set package, throughout all phases of the Vehicle Integration and Synchronized Fielding process. This begins with an assembly of multiple programs of record (PORs) integrated into the Army Network to achieve enhanced network performance IAW the requirements validation, content and execution priorities received from the Army G-3/5/7 (DAMO LM). The Capability Set process development is structured by working with the PORs to define materiel systems Basis of Issue (BOI)/Network Architecture by type of Brigade Combat Team (BCT). Capability Set products that have been Materiel Released/ Type Classified, have production funding and production are aligned a single Integrated Master Schedule for design integration, testing, production, kitting, platform integration, training and fielding. This project also includes the direct support during each of the unit's "New Equipment Training" and "New Equipment Fielding", along with the preparation for the BCT's rotation through one of the Army's Combat Training Centers, (Joint Readiness Training Center (JRTC) or National Training Center (NTC). Upon completion of the Combat Training Center (CTC) rotation the support teams provide oversight to ensure that all training assets are reset and moved to the follow-on BCT and that all After Action activities are closed out. This project also includes coordination with DA staff for synchronization of NIE with Integration and Interoperability events leading to Army Interoperability Certification and coordinating mission command Army Interoperability Certification (AIC) baseline to support fielding.

The FY 2015 funding is supporting the CS fielding in CY 2015 and also conducting the planning for CS 16. During FY 2015 the Army's current plan is to conduct seven (7) Tactical Capability Set-Sync Fieldings (CS-SF) and one (1) Division Headquarters utilizing three CS-SF teams.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)

	FY 2013	FY 2014	FY 2015
Title: Production/Fielding Coordination for Capability Sets	-	3.916	2.614

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	**R-1 Program Element (Number/Name)** PE 0604798A I *Brigade Analysis,* *Integration and Evaluation*	**Project (Number/Name)** DY5 I *Production/Field Coordination for* *Capability Sets*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Articles:	-	-	-

Description: These funds provide for the following: Development, coordination and execution of the plan to take the results of previous NIEs and produce, integrate, and field these Brigade improvements to the BCTs. This effort does not fund the production, or integration, or fielding of the tactical capability set, but it does fund the coordination of this activity for the Army through the supporting Program Managers (PMs), Program Executive Officers (PEOs), and Research, Development, Engineering Command (RDECOMs).

FY 2014 Plans:
Synchronize, integrate and coordinate Tactical Capability Set Fielding for CS-14 thru CS-19 to receiving Brigade Combat Teams (BCTs). Coordinate fielding integration of Program of Record assets in accordance with the defined BCT Reference architecture consisting of multiple systems, on multiple configurations of STRYKER, MRAPS, HMMWV and Heavy Armor vehicle platforms, at several different locations, integrated into multiple gaining Army Units. Coordinate a synchronized New Equipment Training / New Equipment Fielding (NET/NEF) Integrated Master Schedule (IMS) for fielding of CS-14 to all gaining units. Complete NET by platforms, by role, by echelon, and by BCT. Begin CS-15 NET/NEF requirements definition finalization and development of the NET/NEF integrated master schedule. This includes logically scheduling Program of Record unique NET, System of Systems NET (Capability Set holistic classes), and property accountability handoffs as an integrated process to enhance efficiency of the brigade modernization events. Provides integrated system identification documents to the gaining unit for ease of property transfer in PBUSE. Provides integrated management of facilities across all fielding activities to efficiently manage facilities requirements linked to the Integrated Mast Schedule for all PMs with garrison support activities. Coordinate standard transfer processes for all PMs to reduce the complexity and administrative burden on the gaining units. Synchronize fielding planning to include synchronized production deliveries, NET, fielding and support (with sponsoring PMs) to execute within the specified ARFORGEN windows. Coordinate funding requirements and delivery/production schedules to ensure production schedules are met to field selected systems. Complete funding coordination with DA and prioritized requirements at Weapons Systems Reviews (WSR) to support the POM. Align funding requirements for PMs to make updates to their PORs as a result of integrating concepts that affect engineering architecture data products, training packages, logistics packages, etc. Coordinate New Equipment Training (NET) and New Equipment Fielding (NEF) for all CS-14 components/products across all receiving Units.

FY 2015 Plans:
Base FY 2015 Description: Synchronize, integrate and coordinate Tactical Capability Set Fielding for CS-15 and planning for CS-16. Coordinate fielding integration of Program of Record assets in accordance with the defined BCT Reference architecture consisting of multiple systems, on multiple configurations of STRYKER, MRAPS, HMMWV and Heavy Armor vehicle platforms, at several different locations, integrated into multiple gaining Army Units. Coordinate a synchronized New Equipment Training / New Equipment Fielding (NET/NEF) Integrated Master Schedule (IMS) for fielding of TCS-15 to all gaining units. Complete NET by platforms, by role, by echelon, and by BCT. Begin TCS-16 NET/NEF requirements definition finalization and development of

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0604798A I Brigade Analysis, Integration and Evaluation	Project (Number/Name) DY5 I Production/Field Coordination for Capability Sets

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
the NET/NEF integrated master schedule. This includes logically scheduling Program of Record unique NET, System of Systems NET (Capability Set holistic classes), and property accountability handoffs as an integrated process to enhance efficiency of the brigade modernization events. Provides integrated system identification documents to the gaining unit for ease of property transfer in PBUSE. Provides integrated management of facilities across all fielding activities to efficiently manage facilities requirements linked to the Integrated Mast Schedule for all PMs with garrison support activities. Coordinate standard transfer processes for all PMs to reduce the complexity and administrative burden on the gaining units . Synchronize fielding planning to include synchronized production deliveries, NET, fielding and support (with sponsoring PMs) to execute within the specified ARFORGEN windows. Coordinate funding requirements and delivery/production schedules to ensure production schedules are met to field selected systems. Complete funding coordination with DA and prioritized requirements at Weapons Systems Reviews (WSR) to support the POM. Align funding requirements for PMs to make updates to their PORs as a result of integrating concepts that affect engineering architecture data products, training packages, logistics packages, etc. Coordinate New Equipment Training (NET) and New Equipment Fielding (NEF) for all TCS-15 components/products across all receiving Units			
Title: Facilities and IT Support Articles: Description: Provides funding for infrastructure/facilities and IT support. FY 2014 Plans: Provides funding for infrastructure/facilities. In addition it includes the cost for IT support from Network connectivity for purchasing/leasing hardware, software, computers, communications equipment and services for the government staff. FY 2015 Plans: Provides funding for infrastructure/facilities. In addition it includes the cost for IT support from Network connectivity for purchasing/leasing hardware, software, computers, communications equipment and services for the government staff.	- -	0.282 -	0.188 -
Accomplishments/Planned Programs Subtotals	-	4.198	2.802

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• DY3: DY3 NIE Test & Evaluation	-	14.992	24.785	-	24.785	17.621	16.685	14.800	14.823	Continuing	Continuing
• DY4: DY4 Network Integration Support	-	15.792	20.418	-	20.418	18.549	17.569	15.589	15.613	Continuing	Continuing
• DY6: DY6 Brigade and Platform Integration Support	-	44.576	43.606	-	43.606	52.996	54.940	58.807	58.895	Continuing	Continuing

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY5 *I Production/Field Coordination for Capability Sets*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• DY7: *DY7 Army Systems Engineering, Architecture and Analysis*	-	14.392	9.642	-	9.642	16.913	16.016	14.209	14.231	Continuing	Continuing
• DZ6: *DZ6 Army Integration & Coordination Management*	-	5.997	4.026	-	4.026	7.064	6.680	5.920	5.936	Continuing	Continuing

Remarks

D. Acquisition Strategy

This project does not have any requirement for direct procurement of hardware or software.

E. Performance Metrics

N/A

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY5 *I Production/Field Coordination for Capability Sets*

Product Development ($ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	**Contract Method & Type**	**Performing Activity & Location**	**Prior Years**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Production/Fielding Coordination for Capability Sets	TBD	Various Note: 1 : TBD	0.000	-		3.916	Nov 2013	2.614	Nov 2014	-		2.614	-	6.530	-
		Subtotal	0.000	-		3.916		2.614		-		2.614	-	6.530	-

Remarks
 Note: 1
 - All funding executed from SoSE&I (Warren MI)
 - Program Activities performed at, TACOM (Warren MI).
 - Program Integration support through various PMs, PEOs, RDECOM.

Support ($ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	**Contract Method & Type**	**Performing Activity & Location**	**Prior Years**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Facilities and IT Support	TBD	Various Note:1 : TBD	0.000	-		0.282	Nov 2013	0.188	Nov 2014	-		0.188	-	0.470	-
		Subtotal	0.000	-		0.282		0.188		-		0.188	-	0.470	-

Remarks
 Note: 1
 - All funding executed from SoSE&I (Warren MI)
 - Program Activities performed at, TACOM (Warren MI).

	Prior Years	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO**	**FY 2015 Total**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Project Cost Totals	0.000	-	4.198	2.802	-	2.802	-	7.000	-

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY5 *I Production/Field Coordination for Capability Sets*

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
CS13 Capability Set	███	███	███	███																								
CS13 NEW Equipment Training (NET)	███	███	███																									
CS13 NEW Equipment Fielding (NEF)		███	███	███																								
CS14 Capability Set			███	███	███	███	███	███	███																			
CS14 Architecture Design	███	███																										
CS14 Build & Integration			███	███																								
CS14 NEW Equipment Training (NET)				███	███	███	███																					
CS14 NEW Equipment Fielding (NEF)				███	███	███	███																					
CS15 Capability Set				███	███	███	███	███	███	███																		
CS15 Architecture Design				███	███																							

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY5 *I Production/Field Coordination for Capability Sets*

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
CS13 Capability Set	2	2012	2	2014
CS13 NEW Equipment Training (NET)	1	2013	1	2014
CS13 NEW Equipment Fielding (NEF)	2	2013	2	2014
CS14 Capability Set	3	2013	2	2015
CS14 Architecture Design	4	2012	3	2013
CS14 Build & Integration	3	2013	1	2014
CS14 NEW Equipment Training (NET)	1	2014	1	2015
CS14 NEW Equipment Fielding (NEF)	1	2014	2	2015
CS15 Capability Set	2	2014	2	2016
CS15 Architecture Design	2	2014	4	2014

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army											**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5				**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*					**Project (Number/Name)** DY6 *I Brigade and Platform Integration Support*		

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
DY6: *Brigade and Platform Integration Support*	-	-	44.576	43.606	-	43.606	52.996	54.940	58.807	58.895	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project supports Phase IV through Phase VI of the Army's Agile Integration Process and provide management and oversight to the coordinated Army effort for delivering and maintaining Mission Command Baselines as an interoperable System of Systems (SoS) capability through the synchronization, coordination and facilitation of system deliveries to interoperability certification events.

Based on developed baseline Brigade level architectures, (SOSI) will assess against approved Department of the Army (DA) objectives and baseline Brigade Combat Team (BCT) architectures to plan for and integrate approved network hardware and software systems onto the Soldier and vehicle systems that comprise the integrated BCT network. Work encompasses design and engineering of hardware and cable interfaces (e.g., A-kits) that enable integration of network hardware onto vehicle platforms; development of network data products required to support evaluations of the network; verification of integrated BCT network performance in garrison and field environments; field support to network hardware and software systems that deploy to the field and participate in operational evaluations conducted throughout the BCT battlespace; and, following the operational evaluation, restoration of selected platforms to their baseline configurations. This project includes government and contractor efforts to validate that the Army is properly integrating and fielding trainable, maintainable, interoperable, and sustainable network systems and components that will provide increased warfighting capabilities for the Soldier. This project includes:
• Integration of lab-developed network solutions onto Soldier and vehicle systems;
• Design, and fabrication of mounting brackets, cables, and kits required to enable vehicle platforms to employ new network hardware and software systems;
• Installation and checkout of network hardware and software systems prior to turning the equipment over to the soldiers who will employ these systems during the Network Integration Evaluation (NIE);
• Funding for Field Service Representative (FSR) support for selected Systems Under Evaluation (SUEs) participating in Phase V of the Army's Agile Process;
• Validation of critical operational threads that demonstrate the stability and continuity of the tactical network exercised during the NIE;
• Planning, coordination, and execution of hardware and software system support during the operational phase of the NIE;
• De-modification of vehicles at completion of the event;
• Documentation of interface kits, performance trends, and Integrated Logistics Support (ILS) data to facilitate hand-off of high-payoff systems to designated Programs of Record (POR);
• Feedback to industry on the performance of their technologies, systems, and concept relative to known operational gaps;
• Maintenance of the infrastructure needed by SOSI to support NIE operations at Ft Bliss, TX and White Sands Missile Range, NM.
• System of Systems (SoS) and specialty engineering support to needed to build upon NIE-provided documentation and execute design integration, production planning and testing of Tactical Capability Sets (TCSs) which consolidate high-payoff capabilities in integrated fielding packages; and,

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0604798A I Brigade Analysis, Integration and Evaluation	Project (Number/Name) DY6 I Brigade and Platform Integration Support

• Planning, management, and execution of TCS design requirements to synchronize manufacturing development, production, and synchronized fielding to designated BCTs.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Platform Integration Support	-	16.569	16.223
Articles:	-	-	-

Description: These funds provide for integration of network solutions onto Soldier and vehicle systems to enable an integrated network across the brigade battlespace.

FY 2014 Plans:
This effort supports all activities associated with vehicle and platform integration. The work begins with the selection of network hardware and software systems at Decision Point (DP) 2 of the Army's Agile Process and includes execution of CS-14 synchronized fielding; execution of NIE 14.2 and 15.1 activities that support future (CS-15 and CS-16) requirements; and detailed planning for CS-15 activities.
• Coordination and planning of hardware and software system deliveries to SOSI activities at Fort Bliss, TX;
• Vehicle Integration (VI) planning and scheduling;
• VI execution;
• Network validation;
• Field support;
• Recovery from NIE field operations;
• Develop and deliver CS14 Implementation Architecture;
• CS-15 planning, and design analysis;
• Documentation and handoff of critical information to support implementation of CS-15 efforts;
• Synchronized fielding of CS-15 systems.
SOSI will work with its User counterparts to finalize the BCT architecture that will execute NIE 14.2 and NIE 15.1, and then it will:
• Develop Basis of Issue Plans (BOIPs) for each participating network hardware and software system;
• Identify the type (or types) of vehicle platforms that will host each network system;
• Identify and document the vehicle size, weight, power, and electromagnetic constraints
• Given vehicle size, weight, power, and electromagnetic constraints, develop engineering designs for the complete hardware kits (e.g., the brackets, mounting trays, cables, and other components that comprise an "A-Kit") needed to integrate each unique network hardware system onto each type of host platform that will participate in the NIE;
• Fabricate unique hardware components needed to support vehicle integration efforts;
• Integrate and verify the performance of each unique network system (e.g., B-kit) on its host vehicle - as specified by the BOIP;
• Support installation and integration of instrumentation kits needed to collect data from designated network systems and verify that the instrumentation does not impact the performance of the network system;

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0604798A I Brigade Analysis, Integration and Evaluation	Project (Number/Name) DY6 I Brigade and Platform Integration Support

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
• Support the conduct of safety certification and release efforts for each unique vehicle configuration; • Perform SoS checkouts to ensure all SOSI-installed network hardware and software systems operate with each other, legacy systems, and other POR systems participating in the NIE; • Provide troubleshooting support for network validation exercises and selected network systems during the operational phase of the NIE; • De-installation of selected systems following each NIE; • Documentation and transfer of interface designs, training support requirements, performance trends, ILS requirements, and lessons learned to CS systems engineering teams; • Systems Engineering (SE) to mature the network interface designs developed during the NIE and enable expedited CS fielding; • Synchronized integration of a BCT Reference architecture consisting of multiple network systems, on multiple configurations of STRYKER, MRAPS, HMMWV and Heavy Armor vehicle platforms, at multiple locations; • Coordinate a synchronized Integrated Master Schedule (IMS) for fielding of CS-14 to all gaining units. • Integrate designs by platform, by role, by echelon, and by BCT. • Begin to finalize CS-15 requirements and develop and IMS for CS-15; • Coordinate A-Kit design, development and production and B-Kit's Integration Kit (IK) design, between system and platforms PEOs and PMs. • Coordinate and deliver prototype and production builds • Configuration Management (CM) of Platform Architectural implementations, designs, A-Kits, B-Kits, and the IMS. • Systems Engineering (SE) to include: design maturation, decomposition of reference architecture into platform specific implementations network architecture, prototype/production build, integrated testing, configuration of integrated baseline and an integrated schedule for component management • Synchronize acquisition strategy and planning to include: synchronized production deliveries, fielding and support (with sponsoring PMs) to maintain the ARFORGEN Cycle. *FY 2015 Plans:* This effort supports all activities associated with vehicle and platform integration. The work begins with the selection of network hardware and software systems at Decision Point (DP) 2 of the Army's Agile Process and includes execution of CS-14 synchronized fielding; execution of NIE 15.2 and 16.1 activities that support future (CS-16 and CS-17) requirements; and detailed planning for CS-16 activities. • Coordination and planning of hardware and software system deliveries to SOSI activities at Fort Bliss, TX; • Vehicle Integration (VI) planning and scheduling; • VI execution; • Network validation; • Field support;			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army			**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY6 *I Brigade and Platform Integration Support*	

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
• Recovery from NIE field operations; • Develop and deliver CS-15 Implementation Architecture; • Documentation and handoff of critical information to support implementation of CS-15 efforts; • CS-16 planning and design analysis; • Synchronized fielding of CS-15 systems. Vehicle integration: Leveraging the work performed during FY2014 and using brigade architectures that represent an evolving network modernization strategy: • Develop Basis of Issue Plans (BOIPs) for each participating network hardware and software system; • Identify the type (or types) of vehicle platforms that will host each network system; • Identify and document vehicle size, weight, power, and electromagnetic constraints • Given vehicle size, weight, power, and electromagnetic constraints, develop engineering designs for the complete hardware kits (e.g., the brackets, mounting trays, cables, and other components that comprise an "A-Kit") needed to integrate each unique network hardware system onto each type of host platform that will participate in the NIE; • Fabricate unique hardware components needed to support vehicle integration efforts; • Integrate and verify the performance of each unique network system (e.g., B-kit) on its host vehicle - as specified by the BOIP; • Support installation and integration of instrumentation kits needed to collect data from designated network systems and verify that the instrumentation does not impact the performance of the network system; • Support the conduct of safety certification and release efforts for each unique vehicle configuration; • Perform SoS checkouts to ensure all SOSI-installed network hardware and software systems operate with each other, legacy systems, and other POR systems participating in the NIE; • Provide troubleshooting support for network validation exercises and selected network systems during the operational phase of the NIE; • De-installation of selected systems following each NIE; • Documentation and transfer of interface designs, training support requirements, performance trends, ILS requirements, and lessons learned to CS systems engineering teams; • Systems Engineering (SE) to mature the network interface designs developed during the NIE and enable expedited CS fielding; • Synchronized integration of a BCT Reference architecture consisting of multiple network systems, on multiple configurations of STRYKER, MRAPS, HMMWV and Heavy Armor vehicle platforms, at multiple locations; • Coordinate a synchronized Integrated Master Schedule (IMS) for fielding of CS-14 to all gaining units. • Integrate designs by platform, by role, by echelon, and by BCT. • Begin to finalize CS-16 requirements and develop and IMS for CS-16; • Coordinate A-Kit design, development and production and B-Kit's Integration Kit (IK) design, between system and platforms PEOs and PMs. • Coordinate and deliver prototype and production builds			

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY6 *I Brigade and Platform Integration Support*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	**FY 2013**	**FY 2014**	**FY 2015**
• Configuration Management (CM) of Platform Architectural implementations, designs, A-Kits, B-Kits, and the IMS. • Systems Engineering (SE) to include: design maturation, decomposition of reference architecture into platform specific implementations network architecture, prototype/production build, integrated testing, configuration of integrated baseline and an integrated schedule for component management • Synchronize acquisition strategy and planning to include: synchronized production deliveries, fielding and support (with sponsoring PMs) to maintain the ARFORGEN Cycle.			
Title: Brigade Integration Support **Articles:**	- -	12.100 -	11.830 -
Description: These funds provide for the testing and verification of network components integrated with the BCT's vehicle and soldier systems that participate in NIEs ***FY 2014 Plans:*** Brigade Integration: Once VI is complete for NIE 14.2 and 15.1, SOSI conducts a Network Validation Exercise (VALEX) to demonstrate network stability, connectivity, and performance in controlled conditions. VALEX consists of four phases: Load, Established, Integrate and Validate Threads. • During the Load phase, network systems and SoS engineers install network software, firmware, and Operating Systems (OSs), set Internal Protocol (IP) addresses and configure all network systems on all NIE-unique platforms (Note: Program of Record (POR) and Legacy engineers and FSRs perform the same tasks on any of their platforms that will participate in an NIE; PORs are NOT funded by SOSI to perform these functions). Once all software and data products are loaded, SOSI and supporting network engineers and FSRs perform test/fix/test processes at the network system and component level. • During the Establish phase, this effort resources SOSI engineers and FSRs to work with Legacy and POR network support personnel to verify network hardware and software performance at the platform level. This work troubleshoots any issues associated with network system configurations and ensures that each NIE platform has the ability to perform its role within the tactical network. • In the Integrate phase, this project enables SOSI engineers and FSRs to work with Legacy and POR network personnel to verify network hardware and software performance at the SoS platform level – from the small unit (e.g., company, troop, or battery) up to the brigade. This work troubleshoots any issues associated with network SoS configurations and ensures that each networked tactical units interact with each other as expected. Activities during the Integrate Phase include training of the Soldiers who will be using the new BCT network during the NIE • The Validate phase executes operational threads designed to demonstrate the BCT network's ability to provide specific capabilities to the BCT commander.			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	R-1 Program Element (Number/Name) PE 0604798A I Brigade Analysis, Integration and Evaluation	Project (Number/Name) DY6 I Brigade and Platform Integration Support

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Throughout VALEX planning and execution, SOSI coordinates with the Army Test and Evaluation Command (ATEC) and Brigade Modernization Command (BMC) to ensure network instrumentation, training, and operational requirements are coordinated. ***FY 2015 Plans:*** Brigade Integration: Once VI for NIE 15.2 and 16.1 is complete, SOSI conducts a Network Validation Exercise (VALEX) to demonstrate network stability, connectivity, and performance in controlled conditions. VALEX consists of four phases: Load, Established, Integrate and Validate Threads. • During the Load phase, network systems and SoS engineers install network software, firmware, and Operating Systems (OSs), set Internal Protocol (IP) addresses and configure all network systems on all NIE-unique platforms (Note: Program of Record (POR) and Legacy engineers and FSRs perform the same tasks on any of their platforms that will participate in an NIE; PORs are NOT funded by SOSI to perform these functions). Once all software and data products are loaded, SOSI and supporting network engineers and FSRs perform test/fix/test processes at the network system and component level. • During the Establish phase, this effort resources SOSI engineers and FSRs to work with Legacy and POR network support personnel to verify network hardware and software performance at the platform level. This work troubleshoots any issues associated with network system configurations and ensures that each NIE platform has the ability to perform its role within the tactical network. • In the Integrate phase, this project enables SOSI engineers and FSRs to work with Legacy and POR network personnel to verify network hardware and software performance at the SoS platform level – from the small unit (e.g., company, troop, or battery) up to the brigade. This work troubleshoots any issues associated with network SoS configurations and ensures that each networked tactical units interact with each other as expected. Activities during the Integrate Phase include training of the Soldiers who will be using the new BCT network during the NIE • The Validate phase executes operational threads designed to demonstrate the BCT network's ability to provide specific capabilities to the BCT commander. Throughout VALEX planning and execution, SOSI coordinates with the Army Test and Evaluation Command (ATEC) and Brigade Modernization Command (BMC) to ensure network instrumentation, training, and operational requirements are coordinated.			
Title: Network Integration Support	-	5.839	5.709
Articles:	-	-	-
Description: These funds provide for the field setup, validation, verification and correction of the network for the NIE. ***FY 2014 Plans:*** Network Integration funds Data Product builds for all transport layer communication devices. This effort includes: • Development of the NIE network's Lightweight Data Interchange Format (LDIF) file; • All NETOPS synchronization and coordination activities;			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY6 *I Brigade and Platform Integration Support*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
• Government Subject Matter Experts (SME) who assist in the integration of specialized communication hardware in BCT Command and Control (C2) centers; • Contractor FSRs and network Subject Matter Experts (SMEs) who help SOSI ensure the network is operational during VALEX, BCT Communications Exercises (COMMEXs), NIE Pilot Testing, and NIE execution. *FY 2015 Plans:* Network Integration funds Data Product builds for all transport layer communication devices. This effort includes: • Development of the NIE network's Lightweight Data Interchange Format (LDIF) file; • All NETOPS synchronization and coordination activities; • Government Subject Matter Experts (SME) who assist in the integration of specialized communication hardware in BCT Command and Control (C2) centers; • Contractor FSRs and network Subject Matter Experts (SMEs) who help SOSI ensure the network is operational during VALEX, BCT Communications Exercises (COMMEXs), NIE Pilot Testing, and NIE execution.			
Title: NIE Infrastructure	-	1.092	1.120
Articles:	-	-	-
Description: Provides for Infrastructure (facilities) at FT Bliss TX and WSMR. *FY 2014 Plans:* Provides for setup, utilities, furniture, equipment and maintenance (of equipment and facilities) used by SOS only at Fort Bliss TX, (FBTX) and White Sands Missile Range NM (WSMR) during the planning and execution of NIE 14.2 and 15.1. Includes lease and support maintenance contracts for Government Service Administration (GSA) vehicles that support the NIE mission at FBTX/ WSMR; it also funds activities to divest SOSI facility holdings at WSMR.			
FY 2015 Plans: Provides for setup, utilities, furniture, equipment and maintenance (of all equipment and facilities) used by SOSI at Fort Bliss TX, (FBTX during the planning and execution of NIE 15.2 and 16.1. Includes lease and support maintenance contracts for Government Service Administration (GSA) vehicles that support the NIE mission at FBTX/WSMR; it does not include funding of any facilities at WSMR.			
Title: Network Integration Evaluation SUE support(NIE)	-	1.015	1.004
Articles:	-	-	-
Description: These funds provide for the following effort: To fund selected SUEs to participate in NIE during Phase V of the Army's Agile process. *FY 2014 Plans:*			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army			Date: March 2014		
Appropriation/Budget Activity 2040 I 5		R-1 Program Element (Number/Name) PE 0604798A I *Brigade Analysis, Integration and Evaluation*	Project (Number/Name) DY6 I *Brigade and Platform Integration Support*		

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Provides funding to support integration and evaluation, to support semi-annual events of industry and government technologies which are being selected as SUEs for participation in NIE 14.2 & 15.1. These funds cover the NIE participant's (Emerging and existing technologies, and contractors) costs for travel, and shipment of equipment, Contractor Field Service Representatives (CFSRs) integration A-kit development, and the purchase of additional prototypes when needed to effectively complete detailed evaluations of the complete network architecture. Includes costs for development of integration hardware and software (A-KIT design support). In preparation for the NIE, the selected units participate in the NIE VALEX at FBTX. After hand-off of vehicles, the participating test units deploy to the tactical training/evaluation areas on FBTX and WSMR to complete the NIE event (4 weeks). Their effort also supports any unique SUE support requirements (such as escort personnel, transportation, or facilities). *FY 2015 Plans:* Provides funding to support integration and evaluation, to support semi-annual events of industry and government technologies which are being selected as SUEs for participation in NIE 15.2 & 16.1. These funds cover the NIE participant's (Emerging and existing technologies, and contractors) costs for travel, and shipment of equipment, Contractor Field Service Representatives (CFSRs) integration A-kit development, and the purchase of additional prototypes when needed to effectively complete detailed evaluations of the complete network architecture. Includes costs for development of integration hardware and software (A-KIT design support). In preparation for the NIE, the selected units participate in the NIE VALEX at FBTX. After hand-off of vehicles, the participating test units deploy to the tactical training/evaluation areas on FBTX and WSMR to complete the NIE event (4 weeks). This effort also supports any unique SUE support requirements (such as escort personnel, transportation, or facilities).			
Title: Platform/BDE Integration Management Support	-	7.961	7.720
Articles:	-	-	-
Description: These funds provide for all SOSI government and contract personnel who provide direct management, systems engineering, and specialty engineering support to the Platform and Brigade Integration efforts at Ft Bliss in support of the NIE. *FY 2014 Plans:* This effort includes all program, information, security, business, and personal management efforts required to support the Network Integration teams. It includes: • Program management • Schedule development and management; • Contracting and financial management; • Cost analysis; • Personnel management; • Operations; • Security management; • NIE event management;			

PE 0604798A: *Brigade Analysis, Integration and Evaluation*
Army

R-1 Line #101

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY6 *I Brigade and Platform Integration Support*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
• Information Assurance; • Information management; • Database and IT support; • Facilities and infrastructure management; and, • Knowledge management. In addition to people, costs include all IT support for Network connectivity i.e., purchasing/leasing hardware, software, computers, communications equipment and services. ***FY 2015 Plans:*** This effort includes all program, information, security, business, and personal management efforts required to support the Network Integration teams. It includes: • Program management • Schedule development and management; • Contracting and financial management; • Cost analysis; • Personnel management; • Operations; • Security management; • NIE event management; • Information Assurance; • Information management; • Database and IT support; • Facilities and infrastructure management; and, • Knowledge management. In addition to people, costs include all IT support for Network connectivity i.e., purchasing/leasing hardware, software, computers, communications equipment and services.			
Accomplishments/Planned Programs Subtotals	-	44.576	43.606

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• DY3: *DY3 NIE Test & Evaluation*	-	14.992	24.785	-	24.785	17.621	16.685	14.800	14.823	Continuing	Continuing
• DY4: *DY4 Network Integration Support*	-	15.792	20.418	-	20.418	18.549	17.569	15.589	15.613	Continuing	Continuing

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY6 *I Brigade and Platform Integration Support*

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• DY5: *DY5 Production/Fielding Coordination for Capability Sets*	-	4.198	2.802	-	2.802	4.953	4.681	4.145	4.155	Continuing	Continuing
• DY7: *DY7 Army Systems Engineering, Architecture and Analysis*	-	14.392	9.642	-	9.642	16.913	16.016	14.209	14.231	Continuing	Continuing
• DZ6: *DZ6 Army Integration & Coordination Management*	-	5.997	4.026	-	4.026	7.064	6.680	5.920	5.936	Continuing	Continuing

Remarks

D. Acquisition Strategy

During the planning of NIE 13.2 the government focused on identifying and evaluating systems against the Army's known gaps and utilized a Sources Sought solicitation to invite industry's participation in each NIE. Industry's initial white paper submissions for participation at NIE generally result in no Cost to the government. But there are exceptions, which yield cost such as ensuring small business can participate and if the government needs additional FSR support or hardware to fully represent the Brigade requirements. For FY 2013 and out, the government will use one of two acquisition strategies; First the government will issue a sources sought request to fill the known gaps (utilizing current practices), or the government will use either an existing government contract or a Request for Proposal (RFP) as the means of solicitation for industry's participation in the NIE, the RFP and contracts this will include a participant's production option. The Sources Sought process will be used to help clarify gaps definition and solution sets, where as RFPs will be used when the government's technical community can define the commodity desired to fill a gap with clear and concise selection criteria. The Army is developing a DA PAM to document this process.

E. Performance Metrics

N/A

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2015 Army											**Date:** March 2014		
Appropriation/Budget Activity 2040 *I* 5						**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis,* *Integration and Evaluation*					**Project (Number/Name)** DY6 *I Brigade and Platform Integration* *Support*		

Product Development ($ in Millions)				**FY 2013**		**FY 2014**		**FY 2015** **Base**		**FY 2015** **OCO**		**FY 2015** **Total**			
Cost Category Item	**Contract** **Method** **& Type**	**Performing** **Activity & Location**	**Prior** **Years**	**Cost**	**Award** **Date**	**Cost**	**Award** **Date**	**Cost**	**Award** **Date**	**Cost**	**Award** **Date**	**Cost**	**Cost To** **Complete**	**Total** **Cost**	**Target** **Value of** **Contract**
Platform Integration Support	TBD	Various Note: 1 : TBD	0.000	-		9.763	Nov 2013	16.223	Nov 2014	-		16.223	-	25.986	-
Brigade Integration Support	TBD	Various Note: 1 : TBD	0.000	-		9.066	Nov 2013	11.830	Nov 2014	-		11.830	-	20.896	-
Network Integration Support	TBD	Various Note: 1 : TBD	0.000	-		8.889	Nov 2013	5.709	Nov 2014	-		5.709	-	14.598	-
Network Integration Evaluation SUE support (NIE)	TBD	Various Note: 1 : TBD	0.000	-		12.522	Nov 2013	1.804	Nov 2014	-		1.804	-	14.326	-
Platform/BDE Integration Management Support	TBD	Various Note: 1 : TBD	0.000	-		1.801	Nov 2013	4.920	Nov 2014	-		4.920	-	6.721	-
		Subtotal	0.000	-		42.041		40.486		-		40.486	-	82.527	-

Remarks
 Note: 1
 - All funding executed from SoSE&I (Warren MI)
 - Program Activities performed at TACOM (Warren MI), FT Bliss (TX), White Sands Missile Range (NM).
 - Program Integration support through various PMs, PEOs, RDECOM, and a multitude of small support and industry contractors.

Support ($ in Millions)				**FY 2013**		**FY 2014**		**FY 2015** **Base**		**FY 2015** **OCO**		**FY 2015** **Total**			
Cost Category Item	**Contract** **Method** **& Type**	**Performing** **Activity & Location**	**Prior** **Years**	**Cost**	**Award** **Date**	**Cost**	**Award** **Date**	**Cost**	**Award** **Date**	**Cost**	**Award** **Date**	**Cost**	**Cost To** **Complete**	**Total** **Cost**	**Target** **Value of** **Contract**
Infrastructure Support	TBD	Various Note: 1 : TBD	0.000	-		2.535	Nov 2013	3.120	Nov 2014	-		3.120	-	5.655	-
		Subtotal	0.000	-		2.535		3.120		-		3.120	-	5.655	-

Remarks
 Note: 1
 - All funding executed from SoSE&I (Warren MI)
 - Program Activities performed at FT Bliss (TX), White Sands Missile Range (NM).
 - Program Integration support through various PMs, PEOs, RDECOM, and a multitude of small support and industry contractors.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army									**Date:** March 2014	
Appropriation/Budget Activity 2040 *I* 5				**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*				**Project (Number/Name)** DY6 *I Brigade and Platform Integration Support*		

	Prior Years	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO**	**FY 2015 Total**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Project Cost Totals	0.000	-	44.576	43.606	-	43.606	-	88.182	-

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY6 *I Brigade and Platform Integration Support*

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
NIE 14.2 Planning - Execution																												
NIE 14.2 Industry Day																												
NIE 14.2 DP 1																												
NIE 14.2 DP 2																												
NIE 14.2 Lab Integration/Testing																												
NIE 14.2 Candidate Solution Integration																												
NIE 14.2 LoadEx																												
NIE 14.2 CommEx																												
NIE 14.2 Pilot																												
NIE 14.2 Event																												
NIE 14.2 Event Analysis & Summary																												
NIE 15.1 Planning - Execution																												
NIE 15.1 Industry Day																												
NIE 15.1 DP 1																												
NIE 15.1 DP 2																												
NIE 15.1 Lab Integration/Testing																												
NIE 15.1 Candidate Solution Integration																												
NIE 15.1 LoadEx																												
NIE 15.1 CommEx																												
NIE 15.1 Pilot																												
NIE 15.1 Event																												
NIE 15.1 Event Analysis & Summary																												
NIE 15.2 Planning - Execution																												
NIE 15.2 Industry Day																												

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / Brigade Analysis, Integration and Evaluation	Project (Number/Name) DY6 / Brigade and Platform Integration Support

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
NIE 15.2 DP 1								■																				
NIE 15.2 DP 2								■																				
NIE 15.2 Lab Integration/Testing								■■■																				
NIE 15.2 Candidate Solution Integration									■																			
NIE 15.2 LoadEx									■■																			
NIE 15.2 CommEx										■																		
NIE 15.2 Pilot										■																		
NIE 15.2 Event										■																		
NIE 15.2 Event Analysis & Summary										■																		
NIE 16.1 Planning - Execution								■■■■■■■■																				
NIE 16.1 Industry Day								■																				
NIE 16.1 DP 1									■																			
NIE 16.1 DP 2									■																			
NIE 16.1 Lab Integration/Testing										■■■																		
NIE 16.1 Candidate Solution Integration											■																	
NIE 16.1 LoadEx											■																	
NIE 16.1 CommEx											■■																	
NIE 16.1 Pilot												■																
NIE 16.1 Event												■																
NIE 16.1 Event Analysis & Summary												■																

Exhibit R-4A, **RDT&E Schedule Details:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY6 *I Brigade and Platform Integration Support*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
NIE 14.2 Planning - Execution	2	2013	3	2014
NIE 14.2 Industry Day	3	2013	3	2013
NIE 14.2 DP 1	4	2013	4	2013
NIE 14.2 DP 2	1	2014	1	2014
NIE 14.2 Lab Integration/Testing	1	2014	3	2014
NIE 14.2 Candidate Solution Integration	2	2014	3	2014
NIE 14.2 LoadEx	2	2014	3	2014
NIE 14.2 CommEx	3	2014	3	2014
NIE 14.2 Pilot	3	2014	3	2014
NIE 14.2 Event	3	2014	3	2014
NIE 14.2 Event Analysis & Summary	3	2014	3	2014
NIE 15.1 Planning - Execution	3	2013	1	2015
NIE 15.1 Industry Day	1	2014	1	2014
NIE 15.1 DP 1	2	2014	2	2014
NIE 15.1 DP 2	3	2014	3	2014
NIE 15.1 Lab Integration/Testing	3	2014	1	2015
NIE 15.1 Candidate Solution Integration	3	2014	4	2014
NIE 15.1 LoadEx	4	2014	4	2014
NIE 15.1 CommEx	4	2014	4	2014
NIE 15.1 Pilot	1	2015	1	2015
NIE 15.1 Event	1	2015	1	2015
NIE 15.1 Event Analysis & Summary	1	2015	1	2015

Exhibit R-4A, **RDT&E Schedule Details:** PB 2015 Army					**Date:** March 2014	
Appropriation/Budget Activity 2040 *I* 5		**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*			**Project (Number/Name)** DY6 *I Brigade and Platform Integration Support*	

Events	**Start**		**End**	
	Quarter	**Year**	**Quarter**	**Year**
NIE 15.2 Planning - Execution	2	2014	3	2015
NIE 15.2 Industry Day	3	2014	3	2014
NIE 15.2 DP 1	4	2014	4	2014
NIE 15.2 DP 2	4	2014	4	2014
NIE 15.2 Lab Integration/Testing	1	2015	3	2015
NIE 15.2 Candidate Solution Integration	2	2015	2	2015
NIE 15.2 LoadEx	2	2015	3	2015
NIE 15.2 CommEx	3	2015	3	2015
NIE 15.2 Pilot	3	2015	3	2015
NIE 15.2 Event	3	2015	3	2015
NIE 15.2 Event Analysis & Summary	3	2015	3	2015
NIE 16.1 Planning - Execution	3	2014	1	2016
NIE 16.1 Industry Day	1	2015	1	2015
NIE 16.1 DP 1	2	2015	2	2015
NIE 16.1 DP 2	2	2015	2	2015
NIE 16.1 Lab Integration/Testing	3	2015	1	2016
NIE 16.1 Candidate Solution Integration	4	2015	4	2015
NIE 16.1 LoadEx	4	2015	4	2015
NIE 16.1 CommEx	4	2015	1	2016
NIE 16.1 Pilot	1	2016	1	2016
NIE 16.1 Event	1	2016	1	2016
NIE 16.1 Event Analysis & Summary	1	2016	1	2016

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014	
Appropriation/Budget Activity 2040 *I* 5				**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*				**Project (Number/Name)** DY7 *I Army Systems Engineering, Architecture & Analysis*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO** #	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
DY7: *Army Systems Engineering, Architecture & Analysis*	-	-	14.392	9.642	-	9.642	16.913	16.016	14.209	14.231	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

Note

Not applicable for this item.

A. Mission Description and Budget Item Justification

This project provides the Army's leadership and materiel developers with the necessary system of systems engineering (SOSE), analysis and architectural products to manage and shape the Army's materiel portfolio (5 and 30 year plans); to shape future Network Capability Sets that include Operational Capability Sets (OCS) and Institutional Capability Sets (ICS)(per the approved CIO/G6 LandWarNet 2020 and beyond strategy) and corresponding post/camp/station modernization and integrated base defense; to ensure Systems Engineering discipline across the Materiel developer community throughout the acquisition life, engineering policy and system standards, guidelines. It creates a system of systems level environment that empowers the Acquisition Community through an unsurpassed agile, collaborative, productive, lean and trusted information enterprise. This project includes support to other DOD and international agencies for joint programs and collaboration efforts with NIE and Force Basing/Tactical Capability Set portfolio integration. The Government effort includes costs for salaries, travel, overtime, training, supplies, facilities, and IT support.

This project establishes the capability to develop and deliver the system of system engineering, analysis and architecture products that facilitate analysis & trades and provide timely relevant information to inform decision makers and guide the Army's modernization efforts. This project provides for the development and implementation of a comprehensive set analysis and system architectures that shape the Army's priorities and processes, and synchronizes the enterprise architecture development capability across Assistant Secretary of the Army (Acquisition, Logistics, and Technology) (ASA (ALT)) is cohesive within the agile process. It provides for development and maintenance of the overarching end-to-end LandWarNet (LWN) Network Capability Set (NCS) System of Systems (SOS) Reference Architecture with included NCS SoS Specification and all Army formations that form the basis for representing and communicating the Army's programmed plan to HQDA customers and Program Executive Officers/Program Managers (PEOs/PMs). The LWN NCS SoS Reference Architecture is composed of the NCS Institutional Capability Set SoS Reference Architecture and the NCS Operational Capability Set SoS Reference Architecture. The Institutional Capability Set is composed of the Enterprise Component and Installation Component. Communications and computing for Base Camps and Brigade Combat Teams are included in the NCS Operational Capability Set. It enables analyses and trades that use the reference architecture design data to inform implementation architectures and support informed systems acquisition decisions across the life cycle. It provides for single authority within ASA(ALT) for System of Systems Implementation Architecture oversight to manage governance and approvals of emerging system designs, it also ensures the linkage of architecture products to events (NIE, CS, Weapons Systems Reviews (WSRs), Integrated WSRs (I-WSR),

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 I 5	**R-1 Program Element (Number/Name)** PE 0604798A I *Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY7 I *Army Systems Engineering, Architecture & Analysis*

supporting the Program Objective Memorandum (POM) process)), processes, and customer requirements. The data is organized in order to support views and analysis across organizational, portfolio, and budgeting bins.

Among the key products/processes developed by SOSE is the System of Systems Engineering Management Plan. This plan provides the disciplined and coordinated SoS analysis, engineering and architectural products in order to support strategic and enterprise decision making, efficient capability growth and effective Army modernization. Another is the Common Operation Environment (COE) vision, strategy, and implementation plan for the Army that aims to converge solutions to a common framework, increase cyber security, decrease life cycle costs, and improve interoperability, and leverage industry and GOTS solutions. These documents establish and expose to industry the technical standards, which any sized vendor can understand, internalize and build towards. This efficiency helps increase competition and helps lower software and hardware integration burden and costs. The implementation plan is a living document that will remain flexible as the Army continues to evolve its network standards and fielding methods. The Implementation Plan calls for the Army to continuously seek industry and service's input throughout the COE life cycle. This project provides for technical support to oversee the execution of the COE Implementation plan, COE Orchestration, Verification and Validation (V&V), and Governance. It also provides for the development and execution of COE integration policies and procedures, the development and implementation of backwards capability testing, integration checklists and their verification, test hardware development and implementation support. It provides for COE architecture validation, design baseline validation, and the verification of COE reference architecture compliance.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: Army System of System Engineering and Analysis	-	10.173	6.817
Articles:	-	-	-

Description: To develop Operational (Brigade) Reference and Implementation Architectures, to support NIE, to develop Capability Sets, to develop Network Capability Sets (NCS), to develop Integrated Base Defense (IBD), and to support Army POM and 30 year plans. This effort begins with TRADOC's and CIO/G-6's operational and technical architecture requirements.

FY 2014 Plans:
The funds provide the following: Synchronizing ongoing System-of-Systems (SoS) engineering and analysis to develop the following products:
- Support development of products necessary for the CS17-21 WSR process
- Continue development of TCS15 Reference Architecture
- Begin development of TCS16 Reference Architecture
- Analyze and integrate stakeholder strategies and roadmaps to identify acquisition modernization priorities that support engineering design of Reference Architectures for POM year Capability Sets
- Support development of the material solutions strategy Army Campaign Plan
- Continue to develop and deliver the SBCT Analysis for TCS 15-19
- Continue to develop and deliver the IBCT Analysis for TCS 15-19
- Continue AIC Mission thread refinement
- Develop and maintain analyses that shape evolving Army portfolio priorities

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Develop the LandWarNet (LWN) Network Capability Set (NCS) System of Systems (SoS) Reference Architecture (RA) and Specification (Spec) - Develop the LWN NCS SoS RA & Spec - Develop the LWN NCS Institutional Capability Set SoS RA and Spec - Develop the LWN NCS Operational Capability Set SoS RA and Spec - Develop the LWN NCS Installation Component SoS RA and Spec - Develop the LWN NCS Enterprise Component SoS RA and Spec - Communications and Computing Infrastructure FY18 (Annual) OCONUS Base Camps Reference Architecture - Integrated Base Defense FY18 (Annual) OCONUS Base Camps Reference Architecture - Integrated Base Defense FY18 (Annual) CONUS Installations Reference Architecture ***FY 2015 Plans:*** The funds provide the following: Synchronizing ongoing System-of-Systems (SoS) engineering, analysis, and architecture to develop and distribute the following products to Program Executive Offices (PEOs), Program of Records (PORs), Program Managers (PMs) and Science & Technology (S&T) in order for them to develop their Weapons System Review (WSR) packages for WSR 18-22 for Tactical Capability Set (TCS): - CS23: Refined "Requirements"; Gaps and POR Identification - CS22: Refined Gaps and Objectives identification which will support the development of the Sources Sought (SS) and Tech Call Memo (TC); Basis of Issue (BOI), Platform Interconnect Diagram (PID), and the Transport Design (TD) for NIE 19.1 (Experimental Event) - CS21: Based upon NIE18.1 Horse Blanket, Refined Gaps and create Specifications, which will support the development of the (Tech Evaluation Criteria, and Scope of Work) for competitive Request for Proposal (RFP) and Tech Call Memo (TC) for NIE 19.2 - CS20: Refined Basis of Issue (BOI) for the development of NIE 18.2. (Baseline Event) - CS19: Finalize Basis of Issue (BOI) for Production funding for the Tactical Capability Set 19, Synchronizing ongoing System-of-Systems (SoS) engineering, analysis, and architecture to develop and distribute the following products to HQDA customers, Program Executive Offices (PEOs), Program of Records (PORs), Program Managers (PMs), and Science & Technology (S&T) in order for them to develop their program plans for CIO/G-6 and the Installation (II) PEG for POM 18-22: - LandWarNet (LWN) Network Capability Set (NCS) System of Systems (SoS) Reference Architecture (RA) (with included NCS SoS Specification) - LWN NCS Institutional Capability Set SoS Reference Architecture - LWN NCS Operational Capability Set SoS Reference Architecture. The Institutional Capability Set			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY7 *I Army Systems Engineering, Architecture & Analysis*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
- Enterprise Component of the LWN NCS Institutional CS SoS RA - Installation Component of the LWN NCS Institutional CS SoS RA Synchronizing ongoing System-of-Systems (SoS) engineering, analysis, and architecture to develop and distribute the following products to HQDA customers, Program Executive Offices (PEOs), Program of Records (PORs), Program Managers (PMs), and Science & Technology (S&T) in order for them to develop their program plans for Integrated Weapon Systems Review (I-WSR) FY18-22: - Integrated Base Defense FY19 (Annual) OCONUS Base Camps Reference Architecture - Integrated Base Defense FY19 (Annual) CONUS Installations Reference Architecture System-of-Systems (SoS) engineering, analysis, and architecture to develop and distribute the following products to ASA(ALT) System of System Integration (SoSI) for the execution of NIEs and the fielding of Tactical Capability Sets to the Warfighter: - CCI OCONUS Base Camps Reference Architecture - IBD CONUS Installations Reference Architecture - IBD OCONUS Base Camps Reference Architecture - Integration and Coordination of Installation, Enterprise, ICS, OCS and NCS Reference Architectures - SV1 SoS Overviews - SV2 Transport overlay - Analyze and integrate stakeholder strategies and roadmaps to identify acquisition modernization priorities that support engineering design of Reference Architectures for POM year Capability Sets - Support development of the material solutions strategy Army Campaign Plan - Develop and maintain analyses that shape evolving Army portfolio priorities			
Title: Common Operating Environment (COE)	-	3.120	2.089
Articles:	-	-	-
Description: Army Systems Engineering & (COE) Development/Validation to Provide Technical Support for the Execution of the Army System Engineering in COE Implementation. **FY 2014 Plans:** The funds provide: Technical support to oversee the execution of the COE Implementation plan, COE Orchestration, Governance, Cross-Cutting Capabilities Definition, Implementation Plan Updates, Software Build (SWB)/COE Configuration Control Board (CCB) and Test Support transition, Integrated Master Schedule, Government oversight of the Army's Strategic Software Improvement Program (ASSIP), Coordination with Army Staff, Technical Reference Model, Metrics for assessing compliance, Technical Advisory Board (TAB), Chief Engineer (CE) compliance, COE assessment criteria, Assess systems during the System			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	**R-1 Program Element (Number/Name)** PE 0604798A I *Brigade Analysis,* *Integration and Evaluation*	**Project (Number/Name)** DY7 I *Army Systems Engineering,* *Architecture & Analysis*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Under Evaluation (SUE) Technical Interface Meeting (TIM), System software configuration baseline data collection, System software configuration baseline updates, Control Point/Interface Definition and Agreements, Afghan Mission Network, Ops/ Intel Convergence, Transport Convergence, Network Synchronization Working Group , Joint Interoperability & Mission Thread Architecture Office of Secretary Defense (OSD) Director Defense Research and Engineering (DDR&E), Integrated Base Defense (IBD), Basing and Basing Computing/Communications Analysis, Host Based Security System (HBSS), Global Network Enterprise Construct (GNEC) Implementation Plan, Radio Procurement Requests, SoS Engineering Construct for the Network, Organizing the SoS Engineering trade space for Platforms, Standards for the Platforms (VICTORY & FACE), Size Weight and Power (SWAP) working group, Software Blocking (SW), NIE Gaps, Candidate Assessment for NIEs 14.2 and 15.1, and Technologies assessment, Systems Engineering Plan (SEP) policy, Program Protection Plan (PPP) reviews, Reliability policy technical support, Standards & Speciation adoption across ASA(ALT) and OSD/Joint, Development Planning model, Basing Pilot. It also provides for the development and execution of COE integration policies and procedures, the development and implementation of backwards capability testing, integration checklists and their verification, test hardware development and implementation support. The development and effective utilization of emulator and integration tools. Provides for COE/CE architecture validation, design baseline validation, and the verification of COE reference architecture compliance. The verification of COE critical enabler implementation, conducting risk assessments and analysis, accreditation and certification process refinement, and verification of technical test harness and tool development. Provides for the accreditation, certification and refinement of test plans and events. ***FY 2015 Plans:*** The funds provide: Technical support to oversee the execution of the COE Implementation plan, COE Orchestration, Governance, Cross-Cutting Capabilities Definition, Implementation Plan Updates, Software Build (SWB)/COE Configuration Control Board (CCB) and Test Support transition, Integrated Master Schedule, Government oversight of the Army's Strategic Software Improvement Program (ASSIP), Coordination with Army Staff, Technical Reference Model, Metrics for assessing compliance, Technical Advisory Board (TAB), Chief Engineer (CE) compliance, COE assessment criteria, Assess systems during the System Under Evaluation (SUE) Technical Interface Meeting (TIM), System software configuration baseline data collection, System software configuration baseline updates, Control Point/Interface Definition and Agreements, Afghan Mission Network, Ops/ Intel Convergence, Transport Convergence, Network Synchronization Working Group , Joint Interoperability & Mission Thread Architecture Office of Secretary Defense (OSD) Director Defense Research and Engineering (DDR&E), Integrated Base Defense, Basing and Basing Computing/Communications Analysis, Host Based Security System (HBSS), Global Network Enterprise Construct (GNEC) Implementation Plan, Radio Procurement Requests, SoS Engineering Construct for the Network, Organizing the SoS Engineering trade space for Platforms, Standards for the Platforms (VICTORY & FACE), Size Weight and Power (SWAP) working group, Software Blocking (SW), NIE Gaps, Candidate Assessment for NIEs 15.2 and 16.1, and Technologies assessment, Systems Engineering Plan (SEP) policy, Program Protection Plan (PPP) reviews, Reliability policy technical support, Standards & Speciation adoption across ASA(ALT), (OSD/Joint), Development Planning model, IBD, Basing Pilot). It also provides for the development and execution of COE integration policies and procedures, the development and implementation			

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / Brigade Analysis, Integration and Evaluation	Project (Number/Name) DY7 / Army Systems Engineering, Architecture & Analysis

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
of backwards capability testing, integration checklists and their verification, test hardware development and implementation support. The development and effective utilization of emulator and integration tools. Provides for COE/CE architecture validation, design baseline validation, and the verification of COE reference architecture compliance. The verification of COE critical enabler implementation, conducting risk assessments and analysis, accreditation and certification process refinement, and verification of technical test harness and tool development.			
Title: Facilities and IT Support	-	1.099	0.736
Articles:	-	-	-
Description: Provides funding for infrastructure/facilities and IT support. **FY 2014 Plans:** Provides funding for infrastructure/facilities. It includes the cost for government IT support from Network connectivity to purchasing/leasing hardware, software, computers, communications equipment and services. **FY 2015 Plans:** Provides funding for infrastructure/facilities. It includes the cost for government IT support from Network connectivity to purchasing/leasing hardware, software, computers, communications equipment and services.			
Accomplishments/Planned Programs Subtotals	-	14.392	9.642

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• DY3: *DY3 NIE Test & Evaluation*	-	14.992	24.785	-	24.785	17.621	16.685	14.800	14.823	Continuing	Continuing
• DY4: *DY4 Network Integration Support*	-	15.792	20.418	-	20.418	18.549	17.569	15.589	15.613	Continuing	Continuing
• DY5: *DY5 Production/Fielding Coordination for Capability Sets*	-	4.198	2.802	-	2.802	4.953	4.681	4.145	4.155	Continuing	Continuing
• DY6: *DY6 Brigade and Platform Integration Support*	-	44.576	43.606	-	43.606	52.996	54.940	58.807	58.895	Continuing	Continuing
• DZ6: *DZ6 Army Integration & Coordination Management*	-	5.997	4.026	-	4.026	7.064	6.680	5.920	5.936	Continuing	Continuing

Remarks

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DY7 *I Army Systems Engineering, Architecture & Analysis*

D. Acquisition Strategy

This project does not have any requirement for direct procurement of hardware or software.

E. Performance Metrics

N/A

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2015 Army											**Date:** March 2014		
Appropriation/Budget Activity 2040 *I* 5					**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*					**Project (Number/Name)** DY7 *I Army Systems Engineering, Architecture & Analysis*			

Product Development ($ in Millions)				**FY 2013**		**FY 2014**		**FY 2015 Base**		**FY 2015 OCO**		**FY 2015 Total**			
Cost Category Item	**Contract Method & Type**	**Performing Activity & Location**	**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 System of System Engineering and Analysis	TBD	Various Note: 1 : TBD	0.000	-		11.305	Nov 2013	6.817	Nov 2014	-		6.817	-	18.122	-
Common Operating Environment (COE)	TBD	Various Note: 1 : TBD	0.000	-		2.499	Nov 2013	2.089	Nov 2014	-		2.089	-	4.588	-
Subtotal			0.000	-		13.804		8.906		-		8.906	-	22.710	-

Remarks
 Note: 1
 - All funding executed from SoSE&I (Warren MI)
 - Program Activities performed at Aberdeen Proving Ground (MD), Taylor Bldg, (Crystal City, VA), Pentagon, (Washington DC), TACOM (Warren, MI)

Support ($ in Millions)				**FY 2013**		**FY 2014**		**FY 2015 Base**		**FY 2015 OCO**		**FY 2015 Total**			
Cost Category Item	**Contract Method & Type**	**Performing Activity & Location**	**Prior Years**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Facility and IT Support	TBD	Various: Note: 1 : TBD	0.000	-		0.588	Nov 2014	0.736	Nov 2014	-		0.736	-	1.324	-
Subtotal			0.000	-		0.588		0.736		-		0.736	-	1.324	-

Remarks
 Note:1
 - All funding executed from SoSE&I (Warren MI)
 - Program Activities performed at Aberdeen Proving Ground (MD), Taylor Bldg, (Crystal City, VA), Pentagon, (Washington DC), TACOM (Warren, MI)

	Prior Years	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO**	**FY 2015 Total**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Project Cost Totals	0.000	-	14.392	9.642	-	9.642	-	24.034	-

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	**R-1 Program Element (Number/Name)** PE 0604798A I Brigade Analysis, Integration and Evaluation	**Project (Number/Name)** DY7 I Army Systems Engineering, Architecture & Analysis

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Provide engineering, analytical and architectural oversight	■	■	■	■	■	■	■	■	■																			
CS14 - Develop and Deliver CS14 SBCT Reference Architecture	■	■																										
CS15 - Develop and Deliver CS 15 ABCT Reference Architecture				■	■	■																						
Continue development of IBD CONUS Installations refer. arch. for FY16 & 17				■	■	■	■																					
Continue development of IBD OCONUS Base Camps refer. archt. for FY15-17 fielding				■	■	■	■																					
Develop and deliver CCI OCONUS Base Camp refer. Arch.for FY16 & FY17 fielding				■	■	■	■																					
CS15 - Develop and Deliver CS15 IBCT Reference Architecture					■	■																						
Develop initial ref. arch. for IBD OCONUS Installations for FY18 fielding					■	■	■																					
Dev. & deliver CCI CONUS Installation refer. Arch. for FY17 & FY18 fielding					■	■	■																					
Dev. initial IBD Movement Corridor reference architecture for FY18 fielding					■	■	■																					
Dev. initial CCI OCONUS Installation refer. Arch. for FY18 fielding					■	■	■																					
CS16 - Develop and Deliver CS16 IBCT Reference Architecture							■	■	■																			
CS16 - Develop and Deliver CS16 ABCT Reference Architecture								■	■																			
CS16 - Develop and Deliver CS16 SBCT Reference Architecture								■	■																			

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army		Date: March 2014
Appropriation/Budget Activity 2040 I 5	**R-1 Program Element (Number/Name)** PE 0604798A I Brigade Analysis, Integration and Evaluation	**Project (Number/Name)** DY7 I Army Systems Engineering, Architecture & Analysis

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
Develop and deliver Finalized BOI, PID, and TD for NIE 15.2 Horse Blanket								■	■																			
Develop and deliver Tech Eval Criteria, Refined GAPs and Scope of Work for NIE16								■	■	■	■																	
Develop and deliver WSR package to PORs & PMs for WSR 18-22 for CS19-CS23										■	■																	
Develop and deliver Final BOI, PID, TD, DFD and NDB for CS17 Fielding											■	■																
Develop and deliver BOI, PID & TD for NIE16.2 Horse Blanket											■	■																
Develop and deliver Refined GAPs and Objectives for NIE16.1's Sources Sought											■																	

Exhibit R-4A, **RDT&E Schedule Details:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 / 5	**R-1 Program Element (Number/Name)** PE 0604798A / Brigade Analysis, Integration and Evaluation	**Project (Number/Name)** DY7 / Army Systems Engineering, Architecture & Analysis

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
Provide engineering, analytical and architectural oversight	1	2013	1	2015
CS14 - Develop and Deliver CS14 SBCT Reference Architecture	4	2012	3	2013
CS15 - Develop and Deliver CS 15 ABCT Reference Architecture	3	2013	2	2014
Continue development of IBD CONUS Installations refer. arch. for FY16 & 17	3	2013	4	2014
Continue development of IBD OCONUS Base Camps refer. archt. for FY15-17 fielding	3	2013	4	2014
Develop and deliver CCI OCONUS Base Camp refer. Arch.for FY16 & FY17 fielding	3	2013	4	2014
CS15 - Develop and Deliver CS15 IBCT Reference Architecture	4	2013	3	2014
Develop initial ref. arch. for IBD OCONUS Installations for FY18 fielding	1	2014	4	2014
Dev. & deliver CCI CONUS Installation refer. Arch. for FY17 & FY18 fielding	1	2014	4	2014
Dev. initial IBD Movement Corridor reference architecture for FY18 fielding	1	2014	4	2014
Dev. initial CCI OCONUS Installation refer. Arch. for FY18 fielding	1	2014	4	2014
CS16 - Develop and Deliver CS16 IBCT Reference Architecture	3	2014	3	2015
CS16 - Develop and Deliver CS16 ABCT Reference Architecture	4	2014	3	2015
CS16 - Develop and Deliver CS16 SBCT Reference Architecture	4	2014	3	2015
Develop and deliver Finalized BOI, PID, and TD for NIE 15.2 Horse Blanket	4	2014	1	2015
Develop and deliver Tech Eval Criteria, Refined GAPs and Scope of Work for NIE16	4	2014	1	2016
Develop and deliver WSR package to PORs & PMs for WSR 18-22 for CS19-CS23	3	2015	4	2015
Develop and deliver Final BOI, PID, TD, DFD and NDB for CS17 Fielding	4	2015	1	2016
Develop and deliver BOI, PID & TD for NIE16.2 Horse Blanket	4	2015	1	2016
Develop and deliver Refined GAPs and Objectives for NIE16.1's Sources Sought	1	2016	1	2016

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014	

Appropriation/Budget Activity 2040 I 5			R-1 Program Element (Number/Name) PE 0604798A I Brigade Analysis, Integration and Evaluation						Project (Number/Name) DZ6 I Army Integration Management & Coordination		

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
DZ6: *Army Integration Management & Coordination*	-	-	5.997	4.026	-	4.026	7.064	6.680	5.920	5.936	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project will support the management and coordination of all six Phases of the Army's Agile Network Integration process along with the Army System of System engineering and analysis architecture development for the Army. The project will fund the "shared" resources that support the technical and management (i.e. headquarters, resource management, acquisition, affordability, human resources, operations, etc.) aspects of the Army's Agile Network Integration process and coordination of Production Integration and Fielding of the Tactical Capability Set (TCS). The "shared" resources reduce overall cost to the program by spreading this support for three directorates, sharing the personnel and cost for direct support. This project also includes coordination of ASA(ALT) schedules and affordability analysis to meet the Army System of System architecture objectives developed under DY7.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2013	FY 2014	FY 2015
Title: SoSE&I Program Management and Integration	-	5.236	3.515
Articles:	-	-	-
Description: This effort funds for all "shared" resources that supports the Brigade Analysis, Integration and Evaluation program. *FY 2014 Plans:* This effort includes program, information, security, business, and personal management efforts required to support the SoSI integration teams. It includes the following types of activities: Program management, contracting, financial management, cost analysis, personnel management, operations, security management, information management, facilities and infrastructure management, Pentagon liaison, knowledge management. *FY 2015 Plans:* This effort includes program, information, security, business, and personal management efforts required to support the ASA(ALT) System of System Engineering and Integration Directorate. This includes; support of the system of system engineering process, the ASSALT integrated master schedule development and implementation, support of the Lab Based Risk Reduction and network integration effort, support of the NIE, and support of synchronized fielding. It includes the following types of activities: Program management, contracting, financial management, cost analysis, personnel management, operations, security management, information management, facilities and infrastructure management, Pentagon liaison, knowledge management.			
Title: Facilities and IT Support	-	0.761	0.511

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DZ6 *I Army Integration Management & Coordination*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	**FY 2013**	**FY 2014**	**FY 2015**
Articles:	-	-	-
Description: Provides funding for infrastructure/facilities and IT support.			
FY 2014 Plans: Provides funding for infrastructure/facilities, and government personnel IT support from Network connectivity to purchasing/leasing hardware, software, computers, communications equipment and services.			
FY 2015 Plans: Provides funding for infrastructure / facilities, and government personnel IT support from Network connectivity to purchasing/ leasing hardware, software, computers, communications equipment and services.			
Accomplishments/Planned Programs Subtotals	-	5.997	4.026

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• DY3: *DY3 NIE Test & Evaluation*	-	14.992	24.785	-	24.785	17.621	16.685	14.800	14.823	Continuing	Continuing
• DY4: *DY4 Network Integration Support*	-	15.792	20.418	-	20.418	18.549	17.569	15.589	15.613	Continuing	Continuing
• DY5: *DY5 Production/Fielding Coordination for Capability Sets*	-	4.198	2.802	-	2.802	4.953	4.681	4.145	4.155	Continuing	Continuing
• DY6: *DY6 Brigade and Platform Integration Support*	-	44.576	43.606	-	43.606	52.996	54.940	58.807	58.895	Continuing	Continuing
• DY7: *DY7 Army Systems Engineering, Architecture and Analysis*	-	14.392	9.642	-	9.642	16.913	16.016	14.209	14.231	Continuing	Continuing

Remarks

D. Acquisition Strategy

This project includes the purchase of IT hardware, software and service support; general office and operational supplies.

E. Performance Metrics

N/A

| **Exhibit R-3**, RDT&E Project Cost Analysis: PB 2015 Army | | | | | | | | | | | | **Date:** March 2014 | | | |

| **Appropriation/Budget Activity**
2040 *I* 5 | **R-1 Program Element (Number/Name)**
PE 0604798A *I Brigade Analysis, Integration and Evaluation* | **Project (Number/Name)**
DZ6 *I Army Integration Management & Coordination* |

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
SoSE&I Program Management and Integration	TBD	Various Note: 1 : TBD	0.000	-		4.309	Nov 2013	3.515	Nov 2014	-		3.515	-	7.824	-
		Subtotal	0.000	-		4.309		3.515		-		3.515	-	7.824	-

Remarks
Note: 1
- All funding executed from SoSE&I (Warren MI)
- Program Activities performed at Aberdeen Proving Ground (MD), TACOM (Warren MI), Taylor Bldg, (Crystal City, VA), Pentagon, (Washington DC).

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Facilities and IT Support	TBD	Various Note: 1 : TBD	0.000	-		1.688	Nov 2013	0.511	Nov 2014	-		0.511	-	2.199	-
		Subtotal	0.000	-		1.688		0.511		-		0.511	-	2.199	-

Remarks
Note:1
- All funding executed from SoSE&I (Warren MI)
- Program Activities performed at Aberdeen Proving Ground (MD), TACOM (Warren MI), Taylor Bldg, (Crystal City, VA), Pentagon, (Washington DC), FT Bliss (TX), White Sands Missile Range (NM).

	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	-	5.997	4.026	-	4.026	-	10.023	-

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DZ6 *I Army Integration Management & Coordination*

	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
	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
NIE 14.2 Planning - Execution							
NIE 14.2 Industry Day							
NIE 14.2 DP 1							
NIE 14.2 DP 2							
NIE 14.2 Lab Integration/Testing							
NIE 14.2 Candidate Solution Integration							
NIE 14.2 LoadEx							
NIE 14.2 CommEx							
NIE 14.2 Pilot							
NIE 14.2 Event							
NIE 14.2 Event Analysis & Summary							
NIE 15.1 Planning - Execution							
NIE 15.1 Industry Day							
NIE 15.1 DP 1							
NIE 15.1 DP 2							
NIE 15.1 Lab Integration/Testing							
NIE 15.1 Candidate Solution Integration							
NIE 15.1 LoadEx							
NIE 15.1 CommEx							
NIE 15.1 Pilot							
NIE 15.1 Event							
NIE 15.1 Event Analysis & Summary							
NIE 15.2 Planning - Execution							
NIE 15.2 Industry Day							

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army			**Date:** March 2014
Appropriation/Budget Activity 2040 I 5		**R-1 Program Element (Number/Name)** PE 0604798A I *Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DZ6 I *Army Integration Management & Coordination*

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
NIE 15.2 DP 1								█																				
NIE 15.2 DP 2								█																				
NIE 15.2 Lab Integration/Testing									█	█																		
NIE 15.2 Candidate Solution Integration										█																		
NIE 15.2 LoadEx									█	█																		
NIE 15.2 CommEx										█																		
NIE 15.2 Pilot										█																		
NIE 15.2 Event										█																		
NIE 15.2 Event Analysis & Summary										█																		
NIE 16.1 Planning - Execution								█	█	█	█	█	█															
NIE 16.1 Industry Day								█																				
NIE 16.1 DP 1									█																			
NIE 16.1 DP 2									█																			
NIE 16.1 Lab Integration/Testing										█																		
NIE 16.1 Candidate Solution Integration											█																	
NIE 16.1 LoadEx											█																	
NIE 16.1 CommEx											█	█																
NIE 16.1 Pilot												█																
NIE 16.1 Event												█																
CS14 Capability Set	█	█	█	█	█	█	█	█	█	█																		
CS14 Architecture Design	█	█																										
NIE 16.1 Event Analysis & Summary												█																
CS14 Build & Integration					█	█																						
CS14 NEW Equipment Training (NET)						█	█	█	█																			
CS14 NEW Equipment Fielding (NEF)						█	█	█	█																			

Exhibit R-4, **RDT&E Schedule Profile:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DZ6 *I Army Integration Management & Coordination*

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019			
	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
CS15 Capability Set						█	█	█	█	█	█	█	█															
CS15 Architecture Design						█	█	█	█																			
CS15 Build & Integration							█	█	█	█	█																	
CS15 NEW Equipment Training (NET)									█	█	█	█																
CS15 NEW Equipment Fielding (NEF)									█	█	█	█																
CS16 Capability Set									█	█	█	█	█	█	█	█	█	█	█									
CS16 Architecture Design									█	█	█	█	█															
CS16 Build & Integration											█	█																

Exhibit R-4A, **RDT&E Schedule Details:** PB 2015 Army		**Date:** March 2014
Appropriation/Budget Activity 2040 *I* 5	**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*	**Project (Number/Name)** DZ6 *I Army Integration Management & Coordination*

Schedule Details

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
NIE 14.2 Planning - Execution	2	2013	3	2014
NIE 14.2 Industry Day	3	2013	3	2013
NIE 14.2 DP 1	4	2013	4	2013
NIE 14.2 DP 2	1	2014	1	2014
NIE 14.2 Lab Integration/Testing	1	2014	3	2014
NIE 14.2 Candidate Solution Integration	2	2014	2	2014
NIE 14.2 LoadEx	2	2014	3	2014
NIE 14.2 CommEx	3	2014	3	2014
NIE 14.2 Pilot	3	2014	3	2014
NIE 14.2 Event	3	2014	3	2014
NIE 14.2 Event Analysis & Summary	3	2014	3	2014
NIE 15.1 Planning - Execution	3	2013	1	2015
NIE 15.1 Industry Day	1	2014	1	2014
NIE 15.1 DP 1	2	2014	2	2014
NIE 15.1 DP 2	3	2014	3	2014
NIE 15.1 Lab Integration/Testing	3	2014	1	2015
NIE 15.1 Candidate Solution Integration	3	2014	4	2014
NIE 15.1 LoadEx	4	2014	4	2014
NIE 15.1 CommEx	4	2014	1	2015
NIE 15.1 Pilot	1	2015	1	2015
NIE 15.1 Event	1	2015	1	2015
NIE 15.1 Event Analysis & Summary	1	2015	1	2015

Exhibit **R-4A**, **RDT&E Schedule Details:** PB 2015 Army				**Date:** March 2014		
Appropriation/Budget Activity 2040 *I* 5			**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*		**Project (Number/Name)** DZ6 *I Army Integration Management & Coordination*	

	Start		**End**	
Events	**Quarter**	**Year**	**Quarter**	**Year**
NIE 15.2 Planning - Execution	2	2014	3	2015
NIE 15.2 Industry Day	3	2014	3	2014
NIE 15.2 DP 1	4	2014	4	2014
NIE 15.2 DP 2	4	2014	4	2014
NIE 15.2 Lab Integration/Testing	1	2015	3	2015
NIE 15.2 Candidate Solution Integration	2	2015	2	2015
NIE 15.2 LoadEx	2	2015	3	2015
NIE 15.2 CommEx	3	2015	3	2015
NIE 15.2 Pilot	3	2015	3	2015
NIE 15.2 Event	3	2015	3	2015
NIE 15.2 Event Analysis & Summary	3	2015	3	2015
NIE 16.1 Planning - Execution	3	2014	1	2016
NIE 16.1 Industry Day	1	2015	1	2015
NIE 16.1 DP 1	2	2015	2	2015
NIE 16.1 DP 2	2	2015	2	2015
NIE 16.1 Lab Integration/Testing	3	2015	3	2015
NIE 16.1 Candidate Solution Integration	4	2015	4	2015
NIE 16.1 LoadEx	4	2015	4	2015
NIE 16.1 CommEx	4	2015	1	2016
NIE 16.1 Pilot	1	2016	1	2016
NIE 16.1 Event	1	2016	1	2016
CS14 Capability Set	4	2012	2	2015
CS14 Architecture Design	4	2012	3	2013
NIE 16.1 Event Analysis & Summary	1	2016	1	2016
CS14 Build & Integration	3	2013	1	2014

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army				Date: March 2014	
Appropriation/Budget Activity 2040 *I* 5		**R-1 Program Element (Number/Name)** PE 0604798A *I Brigade Analysis, Integration and Evaluation*		**Project (Number/Name)** DZ6 *I Army Integration Management & Coordination*	

Events	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
CS14 NEW Equipment Training (NET)	1	2014	1	2015
CS14 NEW Equipment Fielding (NEF)	1	2014	2	2015
CS15 Capability Set	2	2014	2	2016
CS15 Architecture Design	2	2014	1	2015
CS15 Build & Integration	3	2014	4	2015
CS15 NEW Equipment Training (NET)	2	2015	1	2016
CS15 NEW Equipment Fielding (NEF)	2	2015	1	2016
CS16 Capability Set	2	2015	3	2017
CS16 Architecture Design	2	2015	2	2016
CS16 Build & Integration	4	2015	4	2015