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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>
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COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	91.427	85.246	99.242	-	99.242	122.407	123.702	124.982	126.340	Continuing	Continuing
DY3: <i>NIE Test & Evaluation</i>	-	14.494	24.773	12.215	-	12.215	13.588	11.717	11.739	11.887	Continuing	Continuing
DY4: <i>Network Integration Support</i>	-	10.614	20.408	14.131	-	14.131	15.824	13.860	13.882	14.033	Continuing	Continuing
DY5: <i>Production/Field Coordination for Capability Sets</i>	-	4.059	2.802	4.601	-	4.601	5.584	5.699	5.812	5.926	Continuing	Continuing
DY6: <i>Brigade and Platform Integration Support</i>	-	41.048	23.599	45.504	-	45.504	59.703	63.926	64.194	64.185	Continuing	Continuing
DY7: <i>Army Systems Engineering, Architecture & Analysis</i>	-	14.664	9.638	16.416	-	16.416	19.914	20.490	21.142	21.887	Continuing	Continuing
DZ6: <i>Army Integration Management & Coordination</i>	-	6.548	4.026	6.375	-	6.375	7.794	8.010	8.213	8.422	Continuing	Continuing

Note

FY 2016 funding request was reduced by \$18.854 million to account for the availability of prior year execution balances.

This mission includes the development and management of the Army's System of System Architectures and design, the Network Integration Evaluation (NIE) portion of the Agile Process and the coordination of Capability Set - Synchronized Fielding (CS-SF). This PE is comprised of six projects that align the funding with the planning and execution of NIE Events: DY3, DY4 and DY6; (CS-SF) missions; Production and Fielding Coordination for Capability Sets: DY5; System of System Engineering Architecture: DY7, and Army Integration Management & Coordination: DZ6.

Beginning in FY2014 DU8, DU9, and DV1 were closed and the funding requirements were transferred to DY3, DY4, DY5, DY6, DY7 and DZ6 to better align with the operational mission.

A. Mission Description and Budget Item Justification

The FY 2016 funding supports Army conduct of Network Integration Evaluation (NIE), System of Systems Engineering, and Architecture requirements, Common Operating Environment (COE) and Cyber Integration and Management, and Capability Set Synchronized Fieldings. The specific evaluation requirements will support Network 2020 and Force 2025 objectives and planned end states.

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<p>Project DY3; NIE Test & Evaluation, in FY 2016, 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.</p> <p>Project DY4; Network Integration Support, in FY 2016, provides for Network Integration of all Network Systems Under Evaluation (SUE) (industry and/or 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 known 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 supports the conduct of lab evaluations 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-based 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,</p> <p>Project DY5; Production/Fielding Coordination for Capability Sets, in FY 2016, 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 Capability Sets, 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 Centers (RDECs).</p> <p>Project DY6; Brigade and Platform Integration Support, in FY 2016, 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 Capability Set.</p> <p>Project DY7; Army System Engineering, Architecture & Analysis, in FY 2016, provides for basis of all Agile Process, COE, and Cyber Planning and implementation. This includes the System of Systems SOS engineering and analysis that creates the Army top level architectures, Basis of Issue Plans (BOIP), and designs that feed the planned I Capability Sets, NIE plans, and Army Program Objective Memorandum (POM).</p> <p>Project DZ6; Army Integration Management & Coordination, in FY 2016, 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.</p> <p>Execution of the above projects is in accordance with the Army Acquisition Executive's NIE and Capability Set (CS) Business Execution Ground Rules dated August, 1, 2012.</p>		

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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>
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B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	99.947	105.279	118.096	-	118.096
Current President's Budget	91.427	85.246	99.242	-	99.242
Total Adjustments	-8.520	-20.033	-18.854	-	-18.854
• Congressional General Reductions	-	-0.033			
• Congressional Directed Reductions	-	-20.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-5.200	-			
• SBIR/STTR Transfer	-3.320	-			
• Adjustments to Budget Years	-	-	-18.854	-	-18.854

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>				Project (Number/Name) DY3 / <i>NIE Test & Evaluation</i>			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
DY3: <i>NIE Test & Evaluation</i>	-	14.494	24.773	12.215	-	12.215	13.588	11.717	11.739	11.887	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 in support of the Army's network Endstate and objectives for Network 2020 and Force 2025 and beyond. The project will conduct the actual Network Integration Evaluation at Fort Bliss, TX and White Sands Missile Range, NM which evaluates the integrated soldier and weapon systems operational impact on the brigade to include Doctrine, Organization, Training, Materiel, Leadership and Education, Personnel, Facilities (DOTMLPF) and perform Net Warrior integration for NIE/Bold Quest (BQ) Army Warfighter Assessment objectives. 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 to achieve network 2020 Endstates and Force 2025 objectives. The Army leadership will use the data from these events to identify which systems to procure and field in future Capability Sets for improved Network and Brigade Capability. This project includes reimbursable 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 verifications and validation 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, or is ready for integration into a future 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, petroleum, oil and lubricants (POL) and other test support materials, equipment, personnel and facilities.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2014	FY 2015	FY 2016
Title: NIE Test and Evaluation Costs	8.841	15.112	7.451
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 Accomplishments: Completed NIE 14.2 and NIE 15.1 test planning, instrumentation planning, coordination of requirements, assets planning, range planning and soldier planning in supporting of the execution of System Under Tests (WINT INC2, JBCP, Nett Warrior, HMS MP, and Shadow V2) and the overall verification and validation of Capability Set (CS) 15/16 network architecture at FY 14 NIEs. Planning activities included coordination of requirements with Army Evaluation Command (AEC), Operational Test Center (OTC), White Sands Missile Range (WSMR) in order to develop and procure 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. Activities supporting the execution of the actual experimentation, tests, and evaluation included coordination and procurement of range resources to include range time, range personnel, test engineering support,			

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B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2014	FY 2015	FY 2016
<p>operators and subject matter experts on systems under evaluation. Costs included management of the test/experiment and support for all experiments and tests. Other costs included 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. Conducted coordination with AEC on the development of System Evaluation Plans (SEP) and Operational Milestone Assessment Reports (OMAR).</p> <p>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 safety and operational assessments, data collection, data analysis and report development. 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 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. Conduct Red/Blue Force Team Cyber assessments in the lab and in the field.</p> <p>FY 2016 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 Center (AEC), Operational Test Command (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 safety and operational assessments, data collection, data analysis and report development. 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 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 Ground (APG), Electronic Proving Ground (EPG), FT Bliss and White Sands Missile Range. Conduct coordination with AEC on the development of System Evaluation Plans (SEP) and</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Operational Milestone Assessment Reports (OMAR) and maintain all data bases of evaluation analysis. Conduct Red/Blue Force Team Cyber assessments in the lab and in the field.			
Title: Other Support Cost	5.653	9.661	4.764
Description: Other Support Cost required for NIE Event.			
FY 2014 Accomplishments: Procured and managed satellite time, POL, security support, facilities, MEDEVAC support, blade time for helicopters, and others services, equipment and maintenance of facilities which ensured the successful evaluations/tests during NIE 14.2 and 15.1.			
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			
FY 2016 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	14.494	24.773	12.215

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u> <u>Base</u>	<u>FY 2016</u> <u>OCO</u>	<u>FY 2016</u> <u>Total</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• DY4: <i>DY4 Network Integration Support</i>	10.614	20.408	14.131	-	14.131	15.824	13.860	13.882	14.033	Continuing	Continuing
• DY5: <i>DY5 Production/Fielding Coordination for Capability Sets</i>	4.059	2.802	4.601	-	4.601	5.584	5.699	5.812	5.926	Continuing	Continuing
• DY6: <i>DY6 Brigade and Platform Integration Support</i>	41.048	23.599	45.504	-	45.504	59.703	63.926	64.194	64.185	Continuing	Continuing
• DY7: <i>DY7 Army Systems Engineering, Architecture and Analysis</i>	14.664	9.638	16.416	-	16.416	19.914	20.490	21.142	21.887	Continuing	Continuing
• DZ6: <i>DZ6 Army Integration & Coordination Management</i>	6.548	4.026	6.375	-	6.375	7.794	8.010	8.213	8.422	Continuing	Continuing

Remarks

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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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army **Date:** February 2015

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Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Other Support Costs	TBD	Various Note:1 : TBD	0.000	5.653	Nov 2013	9.661	Nov 2014	4.764	Nov 2015	-		4.764	-	20.078	-
Subtotal			0.000	5.653		9.661		4.764		-		4.764	-	20.078	-

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 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
NIE ATEC Test and Evaluation Costs	TBD	Various Note:1 : TBD	0.000	8.841	Nov 2013	15.112	Nov 2014	7.451	Nov 2015	-		7.451	-	31.404	-
Subtotal			0.000	8.841		15.112		7.451		-		7.451	-	31.404	-

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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	14.494	24.773	12.215	-	12.215	-	51.482	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
(1) NIE 14.2 DP 2	I ▲																											
NIE 14.2 Lab Integration/Testing	■																											
NIE 14.2 Candidate Solution Integration Canc	■																											
NIE 14.2 LoadEx	Load ■																											
NIE 14.2 CommEx	CommEx ■																											
NIE 14.2 Pilot	Pilot ■																											
NIE 14.2 Event	NIE 14.2 E ■																											
NIE 14.2 Event Analysis & Summary NIE 14.2 E	■																											
NIE 15.1 Planning - Execution	■																											
(2) NIE 15.1 Industry Day	I ▲ 2																											
(3) NIE 15.1 DP 1	NIE 15.1 ▲ 3																											
(4) NIE 15.1 DP 2	NIE 15.1 D ▲ 4																											
NIE 15.1 Lab Integration/Testing NIE 15.1 L	■																											

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 15.1 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																												
(1) NIE 15.2 Industry Day																												
(2) NIE 15.2 DP 1																												
(3) NIE 15.2 DP 2																												
NIE 15.2 Lab Integration/Testing																												
NIE 15.2 Candidate Solution Integration																												
NIE 15.2 LoadEx																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 CommEx					NIE 15.2 CommEx																							
NIE 15.2 Pilot					NIE 15.2 Pilot																							
NIE 15.2 Event					NIE 15.2 Event																							
NIE 15.2 Event Analysis & Summary					NIE 15.2 Event Analysis & Summary																							
NIE 16.1 Planning - Execution					NIE 16.1 F																							
(1) NIE 16.1 Industry Day					NIE 16.1 Industry Day																							
NIE 16.1 DP 1					NIE 16.1 DP 1																							
NIE 16.1 DP 2					NIE 16.1 DP 2																							
NIE 16.1 Lab Integration/Testing					NIE 16.1 Lab Integration/Testing																							
NIE 16.1 Candidate Solution Integration					NIE 16.1 Candidate Solution Integration																							
NIE 16.1 LoadEx					NIE 16.1 LoadEx																							
NIE 16.1 CommEx					NIE 16.1 CommEx																							
NIE 16.1 Pilot					NIE 16.1 Pilot																							

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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 16.1 Event					NIE 16.1 Event																							
NIE 16.1 Event Analysis & Summary					NIE 16.1 Event Analysis & Summary																							
NIE 16.2 Planning - Execution					NIE 16.2 Planning - Execution																							

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army		Date: February 2015
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
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
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

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Events	Start		End	
	Quarter	Year	Quarter	Year
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
NIE 16.2 Planning - Execution	4	2015	3	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>				Project (Number/Name) DY4 / <i>Network Integration Support</i>			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
DY4: <i>Network Integration Support</i>	-	10.614	20.408	14.131	-	14.131	15.824	13.860	13.882	14.033	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 deliver capabilities that achieve the Army's Network 2020 Endstates and Objectives and Forces 2025 beyond. 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 Army's Mission Command gaps and the US Army Training and Doctrine Command (TRADOC) identified gaps which supports the development of integration and testing concepts for the NIE. Phase III includes the coordinated efforts between System of Systems Integration (SOSE&I), Brigade Modernization Command (BMC) at Ft Bliss and the Army Test and Evaluation Command (ATEC) to finalize the brigade architecture "horseblanket", integration and test planning, training requirements and combat mission evaluations. Phase III also includes the initial integration phase where Systems Under Test (SUT) and government/industry 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 project provides for Network Integration of all SUTs and SUEs (industry and/or government) Hardware/Software into existing CERDEC System Integration Laboratories at APG to risk reduce evaluation architectures, network configurations and identify integration issues prior to NIE. 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 SUTs and industry/government SUEs will continue in the NIE (Phases IV/V of the Army's Agile Network Integration process) and establishes the initial Network configuration that will be used in NIE. LBRR 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.

Additionally this project will integrate the Network at the CERDEC labs facilitate participation by small businesses and interfaces and integrate with Government Programs of Record with unique military secure interfaces and protocols. Purchase of any additional hardware and support above and beyond the proposed or available 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)

	FY 2014	FY 2015	FY 2016
Title: NIE Network Integration and Lab Based Risk Reduction	6.260	12.037	8.335
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.			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p><i>FY 2014 Accomplishments:</i> The funding provided for the Lab Based Risk Reduction (LBRR) for NIE 14.2 and NIE 15.1 planned evaluation networks. In CERDEC labs, engineers created a representative NIE network architecture incorporating radios, satellite-based systems, handheld devices, mission command applications, routers, software, cables and other network components that were part of the field evaluation. Through a combination of actual and emulated hardware and software they modeled the NIE network to provide a test venue for industry and government organizations to integrate and assess Systems Under Test (SUT), Systems Under Evaluation (SUE), and Demonstrations in a controlled environment prior to full-scale operational field testing. Products delivered included test plans, test execution reports, lab & network configuration diagrams and product evaluation reports that covered areas such as system specifications verification, instrumentation plan verification, Network Integration Requirement Levels (NIRL), Measures of Performance (MOP), communications load plan verification, configuration management, field troubleshooting, recommended routing specifications, and technical performance.</p> <p><i>FY 2015 Plans:</i> 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 emulated hardware and software they model 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.</p> <p><i>FY 2016 Plans:</i> The funding provides for the Lab Based Network Analysis and evaluations for NIE 16.2 and 17.1 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 emulated hardware and software they model 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 assessments in support of the Army's 2020 and Force 2025 Network goals. The lab activity validates the NIE network architecture products and network configurations using a Brigade-scale network</p>				

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015		
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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>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.</p> <p>Title: NIE and LBRR Requirements Definition Support</p> <p>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.</p> <p>FY 2014 Accomplishments: This effort for NIE 14.2 and 15.1 included working with TRADOC and G-3/5/7 directorates and ASA(ALT) PEOs to finalize the operational gaps and to develop sources sought and Requests For Proposals (RFP)s to competitively select industry and government SUEs to resolve these gaps. This also included the development of Scopes of work, 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 included management of the down-selections for each event, development and delivery of the final implementation horseblanket architecture and validation threads for each NIE. It also included all program, information, security, business, schedule, personnel 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 across the ASA(ALT) PEO communities.</p> <p>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 sources sought to select industry and government SUEs to to meet NIE15.2 and NIE 16.1 objectives. This also includes the development of evaluation and down-selection criteria and then evaluation of any and all sources sought. 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, personnel 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.</p> <p>FY 2016 Plans: This effort includes working with TRADOC and G-3/5/7 directorates and ASA(ALT) PEOs to finalize the operational gaps and develop either sources sought, or government technical call to select industry and government SUEs to participate in NIE 16.2 and NIE 17.1. This also includes the development, evaluation and down-select criteria and evaluation of sources</p>		2.984	5.737	3.973

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015		
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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>sought, government technical calls proposals.. 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, personnel management, network integration, evaluation, and reporting efforts required to support phases I-III of the Agile process. This effort also includes the management and implementation of phase VI system recommendations across the ASA(ALT) PEO communities.</p> <p>Title: NIE SUE Hardware/Software for Lab & FSR Support for Network Integration</p> <p>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.</p> <p>FY 2014 Accomplishments: Provided funding to support Network integration and evaluation at the CERDEC Lab at APG. This supported semi-annual Network Integration of industry and government technologies which were selected as Systems Under Evaluation (SUE) for participation into the Army's Network Integration Evaluations (NIE) 14.2 & 15.1. These funds covered the selected SUE's participation in the lab integration event and contractor travel cost, shipment of equipment and field service representatives to support Network integration activities, and the purchase of additional prototypes that were required for the CERDEC Lab.</p> <p>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.</p> <p>FY 2016 Plans: Provides funding to support Network integration and evaluation at the CERDEC Lab at APG. This supports semi-annual Network Integration of industry and/or government technologies which are being selected as Systems Under Evaluation (SUE) for participation into the Army's Network Integration Evaluations (NIE) 16.2 & 17.1. 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.</p>		0.926	1.781	1.233
Title: Facilities and IT Support		0.444	0.853	0.590

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Description: Provides funding for infrastructure/facilities and IT support.			
FY 2014 Accomplishments: FY 2014 Description: Provided funding for infrastructure/facilities. In addition it included 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.			
FY 2016 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	10.614	20.408	14.131

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• DY3: <i>DY3 NIE Test & Evaluation</i>	14.494	24.773	12.215	-	12.215	13.588	11.717	11.739	11.887	Continuing	Continuing
• DY5: <i>DY5 Production/Fielding Coordination for Capability Sets</i>	4.059	2.802	4.601	-	4.601	5.584	5.699	5.812	5.926	Continuing	Continuing
• DY6: <i>DY6 Brigade and Platform Integration Support</i>	41.048	23.599	45.504	-	45.504	59.703	63.926	64.194	64.185	Continuing	Continuing
• DY7: <i>DY7 Army Systems Engineering, Architecture and Analysis</i>	14.664	9.638	16.416	-	16.416	19.914	20.490	21.142	21.887	Continuing	Continuing
• DZ6: <i>DZ6 Army Integration & Coordination Management</i>	6.548	4.026	6.375	-	6.375	7.794	8.010	8.213	8.422	Continuing	Continuing

Remarks

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

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015
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<u>E. Performance Metrics</u> N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army **Date:** February 2015

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Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	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	5.596	Nov 2013	12.038	Nov 2014	8.335	Nov 2015	-		8.335	-	25.969	-
Subtotal			0.000	5.596		12.038		8.335		-		8.335	-	25.969	-

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)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	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	1.827	Nov 2013	5.737	Nov 2014	3.973	Nov 2015	-		3.973	-	11.537	-
NIE SUE Hardware/ Software for Lab & FSR Support for Network Integration	TBD	Various Note: 1 : TBD	0.000	2.698	Nov 2013	1.781	Nov 2014	1.233	Nov 2015	-		1.233	-	5.712	-
Facilities and IT Support	TBD	Various Note: 1 : TBD	0.000	0.493	Nov 2013	0.852	Nov 2014	0.590	Nov 2015	-		0.590	-	1.935	-
Subtotal			0.000	5.018		8.370		5.796		-		5.796	-	19.184	-

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)

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army										Date: February 2015			
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	Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	10.614		20.408		14.131		-		14.131	-	45.153	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY4 / <i>Network Integration Support</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020											
	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																																				
(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																																				
(2) NIE 15.1 Industry Day	▲																																			
(3) NIE 15.1 DP 1		▲																																		
(4) NIE 15.1 DP 2			▲																																	

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY4 / <i>Network Integration Support</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 15.1 Lab Integration/Testing NIE 15.1 L				■	■																							
NIE 15.1 Candidate Solution Integration NIE 15.1 C			■	■																								
NIE 15.1 LoadEx NIE 15.1 Loadl				■																								
NIE 15.1 CommEx NIE 15.1 Comr				■	■																							
NIE 15.1 Pilot								■																				
NIE 15.1 Event NIE 15.1 Event								■																				
NIE 15.1 Event Analysis & Summary NIE 15.1 Event Ana								■																				
NIE 15.2 Planning - Execution			■	■	■	■	■	■																				
(1) NIE 15.2 Industry Day NIE 15.2 Ir			▲																									
NIE 15.2 DP 1 NIE 15.2 DP 1				■																								
NIE 15.2 DP 2 NIE 15.2 DP 2				■																								
NIE 15.2 Lab Integration/Testing NIE 15.2 Lab Integr								■	■																			
NIE 15.2 Candidate Solution Integration NIE 15.2 Candidate Solu								■																				

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY4 / <i>Network Integration Support</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 LoadEx	NIE 15.2 LoadEx				■																							
NIE 15.2 CommEx	NIE 15.2 CommEx				■																							
NIE 15.2 Pilot	NIE 15.2 Pilot				■																							
NIE 15.2 Event	NIE 15.2 Event				■																							
NIE 15.2 Event Analysis & Summary	NIE 15.2 Event Analysis & Summary				■																							
NIE 16.1 Planning - Execution	■				■																							
(1) NIE 16.1 Industry Day	NIE 16.1 Industry Day				▲ 1																							
(2) NIE 16.1 DP 1	NIE 16.1 DP 1				▲ 2																							
(3) NIE 16.1 DP 2	NIE 16.1 DP 2				▲ 3																							
NIE 16.1 Lab Integration/Testing	NIE 16.1 Lab Integration/Testing				■																							
NIE 16.1 Candidate Solution Integration	NIE 16.1 Candidate Solution Integration				■																							
NIE 16.1 LoadEx	NIE 16.1 LoadEx				■																							
NIE 16.1 CommEx	NIE 16.1 CommEx				■																							

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY4 / <i>Network Integration Support</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 16.1 Pilot					NIE 16.1 Pilot				■																			
NIE 16.1 Event					NIE 16.1 Event				■																			
NIE 16.1 Event Analysis & Summary					NIE 16.1 Event Analysis & Summary				■																			
NIE 16.2 Planning - Execution					NIE 16.2 Planning - Execution				■■■■																			
NIE 16.2 Industry Day				■	NIE 16.2 Indus																							
NIE 16.2 DP 1				■	NIE 16.2 DP 1																							
NIE 16.2 DP 2					NIE 16.2 DP 2				■																			
NIE 16.2 Lab Integration/Testing					NIE 16.2 Lab Integration/Testing				■■■■																			
NIE 16.2 Candidate Solution Integration					NIE 16.2 Candidate Solution Integration				■																			
NIE 16.2 ValEx					NIE 16.2 ValEx				■■																			
NIE 16.2 CommEx					NIE 16.2 CommEx				■																			
NIE 16.2 Pilot					NIE 16.2 Pilot				■																			
NIE 16.2 Event					NIE 16.2 Event				■																			

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY4 / <i>Network Integration Support</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 16.2 Event Analysis & Summary	NIE 16.2 Event Analysis & Summary								■																			
NIE 17.1 Planning - Execution	NIE 17.1 Planning - Execution								■■■■																			
NIE 17.1 Industry Day	NIE 17.1 Industry Day								■																			
NIE 17.1 DP 1	NIE 17.1 DP 1								■																			
NIE 17.1 DP 2	NIE 17.1 DP 2								■																			
NIE 17.1 Lab Integration/Testing	NIE 17.1 Lab Integration/Testing								■■■■																			
NIE 17.1 Candidate Solution Integration	NIE 17.1 Candidate Solution Integration								■																			
NIE 17.1 ValEx	NIE 17.1 ValEx								■																			
NIE 17.1 CommEx	NIE 17.1 CommEx								■																			
NIE 17.1 Pilot	NIE 17.1 Pilot								■																			
NIE 17.1 Event	NIE 17.1 Event								■																			
NIE 17.1 Event Analysis & Summary	NIE 17.1 Event Analysis & Summary								■																			

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY4 / <i>Network Integration Support</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
NIE 14.2 Planning - Execution	2	2013	3	2014
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
NIE 15.2 Planning - Execution	2	2014	3	2015
NIE 15.2 Industry Day	3	2014	3	2014

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY4 / <i>Network Integration Support</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
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
NIE 16.2 Planning - Execution	4	2015	3	2016
NIE 16.2 Industry Day	4	2014	4	2014
NIE 16.2 DP 1	4	2014	4	2014
NIE 16.2 DP 2	4	2015	4	2015
NIE 16.2 Lab Integration/Testing	1	2016	3	2016

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY4 / <i>Network Integration Support</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
NIE 16.2 Candidate Solution Integration	2	2016	2	2016
NIE 16.2 ValEx	2	2016	3	2016
NIE 16.2 CommEx	3	2016	3	2016
NIE 16.2 Pilot	3	2016	3	2016
NIE 16.2 Event	3	2016	3	2016
NIE 16.2 Event Analysis & Summary	3	2016	3	2016
NIE 17.1 Planning - Execution	1	2016	1	2017
NIE 17.1 Industry Day	1	2016	1	2016
NIE 17.1 DP 1	2	2016	2	2016
NIE 17.1 DP 2	2	2016	2	2016
NIE 17.1 Lab Integration/Testing	3	2016	1	2017
NIE 17.1 Candidate Solution Integration	4	2016	4	2016
NIE 17.1 ValEx	4	2016	4	2016
NIE 17.1 CommEx	1	2017	1	2017
NIE 17.1 Pilot	1	2017	1	2017
NIE 17.1 Event	1	2017	1	2017
NIE 17.1 Event Analysis & Summary	1	2017	1	2017

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>				Project (Number/Name) DY5 / <i>Production/Field Coordination for Capability Sets</i>			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
DY5: <i>Production/Field Coordination for Capability Sets</i>	-	4.059	2.802	4.601	-	4.601	5.584	5.699	5.812	5.926	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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 Network / Basis of Issue (NBOI)/ 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 by 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 2016 funding is supporting the CS fielding in CY 2016 and also conducting the planning for CS 17. During FY 2016 the Army's current plan is to conduct seven (7) Tactical Capability Set-Sync Fieldings (CS-SF) and two (2) Division Headquarters utilizing five CS-SF teams.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2014	FY 2015	FY 2016
Title: Production/Fielding Coordination for Capability Sets	3.787	2.614	4.292

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY5 / <i>Production/Field Coordination for Capability Sets</i>

B. Accomplishments/Planned Programs (\$ in Millions)

Description: These funds provide for the following: Development, coordination and execution of the CS Fielding 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 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 Accomplishments:

Synchronized and fielded integrated Capability Sets in to six IBCTs, (two at FT Bragg, NC; one at FT Campbell, KY; two at FT Drum, NY; and one at FT Bliss, TX); two SBCTs, (one at JBLM, WA and one at FT Bliss, TX); and two Division Headquarters, (One at FT Bragg, NC, one at FT Bliss TX). Coordinated 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 multiple locations, and integrated into multiple gaining Army Units. Synchronized and managed New Equipment Training /New Equipment Fielding (NET/NEF) Integrated Master Schedule (IMS) for fielding of CS-14 to all gaining units. Completed NET by platforms, by role, by echelon, and by BCT. Began CS-15 NET/NEF requirements definition finalization and development of the NET/NEF integrated master schedule. This included logically scheduling Program of Record unique NET, System of Systems NET (Capability Set holistic classes), and property accountability handoffs as an integrated process which enhanced efficiency of the brigade modernization events. Provided integrated system identification documents to the gaining unit for ease of property transfer in PBUSE updates. Provided integrated management of facilities across all fielding activities to efficiently manage facilities requirements linked to the Integrated Master Schedule for all PMs with garrison support activities. Coordinated standard transfer processes for all PMs which reduced the complexity and administrative burden on the gaining units. Synchronized fielding planning which included synchronized production deliveries, NET, fielding and support (with sponsoring PMs) and all BCTs were executed within the specified ARFORGEN window. Coordinated funding requirements and delivery/production schedules which resulted in all production schedules being able to field selected systems. Completed funding coordination with DA and prioritized requirements at Weapons Systems Reviews (WSR) to support the POM. Aligned 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. Coordinated New Equipment Training (NET) and New Equipment Fielding (NEF) for all CS-14 components/products across all receiving Units with minimum disruption to their mission.

FY 2015 Plans:

- Synchronize, integrate and coordinate Capability Set Fielding for CS-16 and detailed planning for CS-17 and high level planning for CS18/19.
- Synchronized integration of BCT Reference architectures consisting of multiple network systems, on multiple configurations of STRYKER, MRAPS, HMMWV and Heavy Armor vehicle platforms, at multiple locations;
 - Integrate designs by platform, by role, by echelon, and by BCT for CS16 including LTI.

FY 2014	FY 2015	FY 2016

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY5 / <i>Production/Field Coordination for Capability Sets</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<ul style="list-style-type: none"> • Begin to finalize CS-16 requirements and develop and coordinate the Integrated Master Schedule (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 for CS16. • Coordinate and deliver prototype and production builds for CS16 • Configuration Management (CM) of Platform Architectural implementations, designs, A-Kits, B-Kits, and the IMS for CS16. • 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-16 to all gaining units. • Complete NET by platforms, by role, by echelon, and by BCT. • Begin CS-17 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 Master 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. • Synchronizes, integrates and coordinates execution of Lower Tactical Internet (LTI) on 700+ platforms for each of four (4) BCTs. Coordinates the set up and execution of the 3ea production lines for each LTI installation including coordination of the unit for platforms to maintain efficient through put of systems. • 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. <p>FY 2016 Plans: Synchronize, integrate and coordinate Tactical Capability Set Fielding for CS-16 and detailed planning for CS-17 and high level planning for CS18/19.</p> <ul style="list-style-type: none"> • Synchronized integration of BCT Reference architectures consisting of multiple network systems, on multiple configurations of STRYKER, MRAPS, HMMWV and Heavy Armor vehicle platforms, at multiple locations; 				

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY5 / <i>Production/Field Coordination for Capability Sets</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<ul style="list-style-type: none"> • Integrate designs by platform, by role, by echelon, and by BCT for CS16 including LTI. • Begin to finalize CS-16 requirements and develop and coordinate the Integrated Master Schedule (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 for CS16. • Coordinate and deliver prototype and production builds for CS16 • Configuration Management (CM) of Platform Architectural implementations, designs, A-Kits, B-Kits, and the IMS for CS16. • 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-16 to all gaining units. • Complete NET by platforms, by role, by echelon, and by BCT. • Begin CS-17 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 Master 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. • Synchronizes, integrates and coordinates execution of Lower Tactical Internet (LTI) on 700+ platforms for each of four (4) BCTs. Coordinates the set up and execution of the 3ea production lines for each LTI installation including coordination of the unit for platforms to maintain efficient through put of systems. • 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. 				
<p>Title: Facilities and IT Support</p> <p>Description: Provides funding for infrastructure/facilities and IT support.</p> <p>FY 2014 Accomplishments:</p>		0.272	0.188	0.309

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY5 / <i>Production/Field Coordination for Capability Sets</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
<p>Provided funding for infrastructure/facilities. In addition it included the cost for IT support from Network connectivity for purchasing/leasing hardware, software, computers, communications equipment and services for the government staff.</p> <p>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.</p> <p>FY 2016 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.</p>			
Accomplishments/Planned Programs Subtotals	4.059	2.802	4.601

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u> <u>Base</u>	<u>FY 2016</u> <u>OCO</u>	<u>FY 2016</u> <u>Total</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• DY3: <i>DY3 NIE Test & Evaluation</i>	14.494	24.773	12.215	-	12.215	13.588	11.717	11.739	11.887	Continuing	Continuing
• DY4: <i>DY4 Network Integration Support</i>	10.614	20.408	14.131	-	14.131	15.824	13.860	13.882	14.033	Continuing	Continuing
• DY6: <i>DY6 Brigade and Platform Integration Support</i>	41.048	23.599	45.504	-	45.504	59.703	63.926	64.194	64.185	Continuing	Continuing
• DY7: <i>DY7 Army Systems Engineering, Architecture and Analysis</i>	14.664	9.638	16.416	-	16.416	19.914	20.490	21.142	21.887	Continuing	Continuing
• DZ6: <i>DZ6 Army Integration & Coordination Management</i>	6.548	4.026	6.375	-	6.375	7.794	8.010	8.213	8.422	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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY5 / <i>Production/Field Coordination for Capability Sets</i>
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Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Production/Fielding Coordination for Capability Sets	TBD	Various Note: 1 : TBD	0.000	3.787	Nov 2013	2.614	Nov 2014	4.292	Nov 2015	-		4.292	-	10.693	-
Subtotal			0.000	3.787		2.614		4.292		-		4.292	-	10.693	-

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 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Facilities and IT Support	TBD	Various Note:1 : TBD	0.000	0.272	Nov 2013	0.188	Nov 2014	0.309	Nov 2015	-		0.309	-	0.769	-
Subtotal			0.000	0.272		0.188		0.309		-		0.309	-	0.769	-

Remarks

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

	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	4.059	2.802	4.601	-	4.601	-	11.462	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY5 / <i>Production/Field Coordination for Capability Sets</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				
	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 Build & Integration																													
CS14 NEW Equipment Training (NET)																													
CS14 NEW Equipment Fielding (NEF)																													
CS15 Capability Set																													
CS15 Architecture Design																													
CS15 Build & Integration																													
CS15 NEW Equipment Training (NET)	CS15 NEW Equipment 1																												
CS15 NEW Equipment Fielding (NEF)	CS15 NEW Equipment F																												
CS16 Capability Set																													
																													CS16 Capability Set

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY5 / <i>Production/Field Coordination for Capability Sets</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
CS16 Architecture Design	CS16 Architect				CS16 Build & Integ				CS16 NEW Equipment Training (NET)				CS16 NEW Equipment Fielding (NEF)				CS17 Capability Set				CS17 Architecture Desi				CS17 Build & Integration			
CS16 Build & Integration																												
CS16 NEW Equipment Training (NET)																												
CS16 NEW Equipment Fielding (NEF)																												
CS17 Capability Set																												
CS17 Architecture Design																												
CS17 Build & Integration																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY5 / <i>Production/Field Coordination for Capability Sets</i>

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	2	2012	2	2015
CS14 Build & Integration	3	2012	4	2014
CS14 NEW Equipment Training (NET)	1	2014	2	2015
CS14 NEW Equipment Fielding (NEF)	1	2014	2	2015
CS15 Capability Set	3	2013	2	2016
CS15 Architecture Design	3	2013	3	2014
CS15 Build & Integration	4	2013	4	2015
CS15 NEW Equipment Training (NET)	2	2015	2	2016
CS15 NEW Equipment Fielding (NEF)	2	2015	2	2016
CS16 Capability Set	4	2014	2	2017
CS16 Architecture Design	4	2014	2	2015
CS16 Build & Integration	1	2015	4	2016
CS16 NEW Equipment Training (NET)	2	2016	1	2017
CS16 NEW Equipment Fielding (NEF)	3	2016	2	2017
CS17 Capability Set	2	2015	2	2018
CS17 Architecture Design	2	2015	3	2016
CS17 Build & Integration	3	2015	4	2017

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>				Project (Number/Name) DY6 / <i>Brigade and Platform Integration Support</i>			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
DY6: <i>Brigade and Platform Integration Support</i>	-	41.048	23.599	45.504	-	45.504	59.703	63.926	64.194	64.185	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project supports Phase IV through Phase VI of the Army's Agile Acquisition Process and provides management and oversight for the coordinated Army effort to deliver and maintain Mission Command Baselines as interoperable System of Systems (SoS) capabilities through the synchronization, coordination and facilitation of system deliveries to interoperability certification events.

Based on developed baseline Brigade level architectures, SoS Engineering & Integration (SoSE&I) 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 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,
- Planning, management, and execution of TCS design requirements to synchronize manufacturing development, production, and synchronized fielding to designated BCTs.

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY6 / <i>Brigade and Platform Integration Support</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>Title: Platform Integration Support</p> <p>Description: These funds provide for integration of network solutions onto Soldier and vehicle systems to enable an integrated network across the brigade battlespace.</p> <p>FY 2014 Accomplishments: This effort supported all activities associated with vehicle and platform integration for NIE 14.2 and NIE 15.1. The work began with the selection of network hardware and software systems at Decision Point (DP) 2 of the Army's Agile Process and the execution of NIE 14.2 and 15.1 activities to support CS-15 and CS-16 requirements; and the development of the implementation architecture for CS-15.</p> Funds provided the following: - Vehicle Integration (VI) planning and scheduling, - - Golden vehicle design; - Vehicle Integration execution; - Network validation; - Field support; - Recovery from NIE field operations; SoSE&I worked with its User counterparts to finalize the BCT architecture that executed NIE 14.2 and NIE 15.1, and then it: - Developed Basis of Issue Plans (BOIPs) for each participating network hardware and software system; Developed engineering designs for 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 participated in the NIE; Fabricated unique hardware components needed to support vehicle integration efforts; Integrated and verified the performance of each unique platform network configuration; Supported installation and integration of instrumentation kits needed to collect data from designated network systems and verified that the instrumentation did not impact the performance of the network system; Supported the conduct of safety certification and release efforts for each unique vehicle configuration; Performed SoS checkouts to ensure all SoSE&I-installed network hardware and software systems operated with each other, legacy systems, and other POR systems participating in the NIE; Provided troubleshooting support for network validation exercises and selected network systems during the operational phase of the NIE; Coordinated with Test and User agencies to develop de-installation and de-modification plans to remove selected equipment (e.g., hardware and/or instrumentation that would not be used in future NIEs; systems directed to be returned to system owners; and systems that Users determined would be installed on other formations in future NIEs) from BCT platforms;		15.271	8.780	16.929

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>Executed the de-installation of selected systems following each NIE;</p> <p>Completed documentation and transfer of interface designs, training support requirements, performance trends, ILS requirements, and lessons learned to CS systems engineering teams;</p> <ul style="list-style-type: none"> - CS-15 planning, and design analysis; - Documentation and handoff of critical information to support implementation of CS-15 efforts; - Developed and derived CS14 Implementation Architecture; <p>Provided Systems Engineering (SE) to mature the network interface designs developed during the NIE and enable expedited CS fielding;</p> <p>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;</p> <p>Coordinated a synchronized Integrated Master Schedule (IMS) for fielding of CS-14 to all gaining units.</p> <p>Integrated designs by platform, by role, by echelon, and by BCT.</p> <p>Began to finalize CS-15 requirements;</p> <p>Coordinated A-Kit design, development and production and B-Kit's Integration Kit (IK) design, between system and platforms PEOs and PMs.</p> <p>Coordinated and delivered prototype and production builds</p> <p>Completed configuration Management (CM) of Platform Architectural implementations, designs, A-Kits, and B-Kits.</p> <p>Conducted 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.</p> <p>FY 2015 Plans:</p> <p>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.</p> <ul style="list-style-type: none"> • 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 CS-15 Implementation Architecture; • Documentation and handoff of critical information to support implementation of CS-15 efforts; 				

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
<ul style="list-style-type: none"> • CS-16 planning and design analysis; • Synchronized fielding of CS-15 systems. <p>Vehicle integration: Leveraging the work performed during FY2014 and using brigade architectures that represent an evolving network modernization strategy:</p> <ul style="list-style-type: none"> • 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 • Configuration Management (CM) of Platform Architectural implementations, designs, A-Kits, B-Kits, and the IMS. 			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
<ul style="list-style-type: none"> • 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. <p>FY 2016 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 implementation architecture for CS-16 activities.</p> <ul style="list-style-type: none"> • Coordination and planning of hardware and software system deliveries to SoSE&I 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 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. <p>Vehicle integration: Leveraging the work performed during FY2014 and using brigade architectures that represent an evolving network modernization strategy:</p> <ul style="list-style-type: none"> • 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; 			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<ul style="list-style-type: none"> • Perform SoS checkouts to ensure all SoSE&I-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 • 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. 				
<p>Title: Brigade Integration Support</p> <p>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.</p> <p>FY 2014 Accomplishments: Brigade Integration: Once VI was completed for NIE 14.2 and 15.1, SoSE&I conducted 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 installed network software, firmware, and Operating Systems (OSs), set Internal Protocol (IP) addresses and configured all network systems on all NIE-unique platforms (Note: Program of Record (POR) and Legacy engineers and FSRs performed the same tasks on their platforms that participated in an NIE; PORs are NOT</p>		11.136	6.402	12.345

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B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2014	FY 2015	FY 2016
<p>funded by SoSE&I to perform these functions). Once all software and data products were loaded, SoSE&I and supporting network engineers and FSRs performed test/fix/test processes at the network system and component level.</p> <p>During the Establish phase, SoSE&I engineers and FSRs worked 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 in a role within the tactical network.</p> <p>In the Integrate phase, this project enabled SoSE&I engineers and FSRs 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 included training of the Soldiers who will be using the new BCT network during the NIE</p> <p>The Validate phase executed operational threads designed to demonstrate the BCT network's ability to provide specific capabilities to the BCT commander.</p> <p>Throughout VALEX planning and execution, SoSE&I coordinated with the Army Test and Evaluation Command (ATEC) and Brigade Modernization Command (BMC) which ensured that network instrumentation, training, and operational requirements were coordinated.</p> <p>FY 2015 Plans:</p> <p>Integration: Once VI for NIE 15.2 and 16.1 is complete, SoSE&I 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.</p> <ul style="list-style-type: none"> • During the Load phase, network systems and SoSE&I 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 SoSE&I to perform these functions). Once all software and data products are loaded, SoSE&I 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 SoSE&I 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 SoSE&I 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 			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<ul style="list-style-type: none"> 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, SoSE&I coordinates with the Army Test and Evaluation Command (ATEC) and Brigade Modernization Command (BMC) to ensure network instrumentation, training, and operational requirements are coordinated. <p>FY 2016 Plans: Brigade Integration: Once Vehicle Integration (VI) for NIE 16.2 and 17.1 is complete; SOSE&I will conduct 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.</p> <ul style="list-style-type: none"> 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 SOSE&I to perform these functions). Once all software and data products are loaded, SOSE&I 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 SOSE&I 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 SOSE&I 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, SOSE&I 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		5.374	3.090	5.957
Description: These funds provide for the field setup, validation, verification and correction of the network for the NIE.				
FY 2014 Accomplishments: Network Integration-funded Data Product build effort supported all transport layer communication devices. This effort included:				

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>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;</p> <ul style="list-style-type: none"> Contractor FSRs and network Subject Matter Experts (SMEs) who helped SoSE&I ensure the network was operational during VALEX, BCT Communications Exercises (COMMEXs), NIE Pilot Testing, and NIE execution. <p>FY 2015 Plans: Network Integration funds Data Product builds for all transport layer communication devices. This effort includes:</p> <ul style="list-style-type: none"> 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 SoSE&I ensure the network is operational during VALEX, BCT Communications Exercises (COMMEXs), NIE Pilot Testing, and NIE execution. <p>FY 2016 Plans: Network Integration funds Data Product builds for all transport layer communication devices. This effort includes:</p> <ul style="list-style-type: none"> 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. 				
<p>Title: NIE Infrastructure</p> <p>Description: Provides for Infrastructure (facilities) at FT Bliss TX and WSMR.</p> <p>FY 2014 Accomplishments: These funds provided for setting up, utilities, furniture, equipment and maintenance (of equipment and facilities) used by SOS at Fort Bliss TX, (FBTX) and White Sands Missile Range NM (WSMR) during the planning and execution of NIE 14.2 and 15.1. Included lease and support maintenance contracts for Government Service Administration (GSA) vehicles that supported the NIE mission at FBTX/WSMR; it also funded activities to divest SoSE&I facility holdings at WSMR.</p> <p>FY 2015 Plans:</p>		1.054	0.606	1.169

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>Provides for setup, utilities, furniture, equipment and maintenance (of all equipment and facilities) used by SoSE&I 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</p> <p>FY 2016 Plans: Provides for setup, utilities, furniture, equipment and maintenance (of all equipment and facilities) used by SoSE&I at Fort Bliss TX, (FBTX) during the planning and execution of NIE 16.2 and 17.1. 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.</p>				
<p>Title: Network Integration Evaluation SUE support (NIE)</p> <p>Description: These funds provide for selected SUEs participation in NIE during Phase V of the Army's Agile process.</p> <p>FY 2014 Accomplishments: Provided funding to support integration and evaluation that supported semi-annual events of industry and government technologies which were being selected as SUEs for participation in NIE 14.2 & 15.1. These funds covered 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 as needed to effectively complete detailed evaluations of the complete network architecture. Included 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 deployed to the tactical training/evaluation areas on FBTX and WSMR to complete the NIE event (4 weeks). This efforts also supported any unique SUE support requirements (such as escort personnel, transportation, or facilities).</p> <p>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).</p> <p>FY 2016 Plans:</p>		0.945	0.543	1.048

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>Provides funding to support integration and evaluation, to support semi-annual events of industry and/or government technologies which are being selected as SUEs for participation in NIE 16.2 & 17.1 to achieve Army's Network 2020 and Force 2025 goals. 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).</p>				
<p>Title: Platform/BDE Integration Management Support</p> <p>Description: These funds provide for all SoSE&I government and contractor personnel providing direct management, systems engineering, and specialty engineering support to the Platform and Brigade Integration efforts at Ft Bliss in support of the NIE.</p> <p>FY 2014 Accomplishments: This effort included all program, information, security, business, and personnel management efforts required to support the Network Integration teams. It included:</p> <ul style="list-style-type: none"> • 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. <p>In addition to people, costs included all IT support for Network connectivity i.e., purchasing/leasing hardware, software, computers, communications equipment and services.</p> <p>FY 2015 Plans:</p>		7.268	4.178	8.056

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B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2014	FY 2015	FY 2016
<p>This effort includes all program, information, security, business, and personnel management efforts required to support the Network Integration teams. It includes:</p> <ul style="list-style-type: none"> • 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. <p>In addition to people, costs include all IT support for Network connectivity i.e., purchasing/leasing hardware, software, computers, communications equipment and services.</p> <p>FY 2016 Plans:</p> <p>This effort includes all program, information, security, business, and personnel management efforts required to support the Network Integration teams. It includes:</p> <ul style="list-style-type: none"> • 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. 			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
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	41.048	23.599	45.504

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• DY3: <i>DY3 NIE Test & Evaluation</i>	14.494	24.773	12.215	-	12.215	13.588	11.717	11.739	11.887	Continuing	Continuing
• DY4: <i>DY4 Network Integration Support</i>	10.614	20.408	14.131	-	14.131	15.824	13.860	13.882	14.033	Continuing	Continuing
• DY5: <i>DY5 Production/Fielding Coordination for Capability Sets</i>	4.059	2.802	4.601	-	4.601	5.584	5.699	5.812	5.926	Continuing	Continuing
• DY7: <i>DY7 Army Systems Engineering, Architecture and Analysis</i>	14.664	9.638	16.416	-	16.416	19.914	20.490	2.142	21.887	Continuing	Continuing
• DZ6: <i>DZ6 Army Integration & Coordination Management</i>	6.548	4.026	6.375	-	6.375	7.794	8.010	8.213	8.422	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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY6 / <i>Brigade and Platform Integration Support</i>
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Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Platform Integration Support	TBD	Various Note: 1 : TBD	0.000	8.990	Nov 2013	8.780	Nov 2014	16.929	Nov 2015	-		16.929	-	34.699	-
Brigade Integration Support	TBD	Various Note: 1 : TBD	0.000	8.349	Nov 2013	6.402	Nov 2014	12.345	Nov 2015	-		12.345	-	27.096	-
Network Integration Support	TBD	Various Note: 1 : TBD	0.000	8.185	Nov 2013	3.090	Nov 2014	5.958	Nov 2015	-		5.958	-	17.233	-
Network Integration Evaluation SUE support (NIE)	TBD	Various Note: 1 : TBD	0.000	11.531	Nov 2013	0.976	Nov 2014	1.882		-		1.882	-	14.389	-
Platform/BDE Integration Management Support	TBD	Various Note: 1 : TBD	0.000	1.658	Nov 2013	2.663	Nov 2014	5.134		-		5.134	-	9.455	-
Subtotal			0.000	38.713		21.911		42.248		-		42.248	-	102.872	-

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 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Infrastructure Support	TBD	Various Note: 1 : TBD	0.000	2.335	Nov 2013	1.688	Nov 2014	3.256		-		3.256	-	7.279	-
Subtotal			0.000	2.335		1.688		3.256		-		3.256	-	7.279	-

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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army								Date: February 2015					
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>				Project (Number/Name) DY6 / <i>Brigade and Platform Integration Support</i>					
	Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	41.048		23.599		45.504		-		45.504	-	110.151	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY6 / <i>Brigade and Platform Integration Support</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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																												
(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																												
(2) NIE 15.1 Industry Day																												
(3) NIE 15.1 DP 1																												
NIE 15.1 DP 2																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY6 / <i>Brigade and Platform Integration Support</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 15.1 Lab Integration/Testing NIE 15.1 L																												
NIE 15.1 Candidate Solution Integration NIE 15.1 C																												
NIE 15.1 LoadEx NIE 15.1 Loadl																												
NIE 15.1 CommEx NIE 15.1 Comr																												
NIE 15.1 Pilot NIE 15.1 Pilot																												
NIE 15.1 Event NIE 15.1 Event																												
NIE 15.1 Event Analysis & Summary NIE 15.1 Event Ana																												
NIE 15.2 Planning - Execution																												
(1) NIE 15.2 Industry Day NIE 15.2 Ir																												
(2) NIE 15.2 DP 1 NIE 15.2 DP 1																												
(3) NIE 15.2 DP 2 NIE 15.2 DP 2																												
NIE 15.2 Lab Integration/Testing NIE 15.2 Lab Integr																												
NIE 15.2 Candidate Solution Integration NIE 15.2 Candidate Solu																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY6 / <i>Brigade and Platform Integration Support</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 LoadEx	NIE 15.2 LoadEx				■																							
NIE 15.2 CommEx	NIE 15.2 CommEx				■																							
NIE 15.2 Pilot	NIE 15.2 Pilot				■																							
NIE 15.2 Event	NIE 15.2 Event				■																							
NIE 15.2 Event Analysis & Summary	NIE 15.2 Event Analysis & Summary				■																							
NIE 16.1 Planning - Execution	NIE 16.1 Planning - Execution				■																							
(1) NIE 16.1 Industry Day	NIE 16.1 Industry Day				▲ 1																							
(2) NIE 16.1 DP 1	NIE 16.1 DP 1				▲ 2																							
(3) NIE 16.1 DP 2	NIE 16.1 DP 2				▲ 3																							
NIE 16.1 Lab Integration/Testing	NIE 16.1 Lab Integration/Testing				■																							
NIE 16.1 Candidate Solution Integration	NIE 16.1 Candidate Solution Integration				■																							
NIE 16.1 LoadEx	NIE 16.1 LoadEx				■																							
NIE 16.1 CommEx	NIE 16.1 CommEx				■																							

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY6 / <i>Brigade and Platform Integration Support</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 16.1 Pilot					NIE 16.1 Pilot																							
NIE 16.1 Event					NIE 16.1 Event																							
NIE 16.1 Event Analysis & Summary					NIE 16.1 Event Analysis & Summary																							

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY6 / <i>Brigade and Platform Integration Support</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
NIE 14.2 Planning - Execution	2	2013	3	2014
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
NIE 15.2 Planning - Execution	2	2014	3	2015
NIE 15.2 Industry Day	3	2014	3	2014

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY6 / <i>Brigade and Platform Integration Support</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
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

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>				Project (Number/Name) DY7 / <i>Army Systems Engineering, Architecture & Analysis</i>			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
DY7: <i>Army Systems Engineering, Architecture & Analysis</i>	-	14.664	9.638	16.416	-	16.416	19.914	20.490	21.142	21.887	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides the Army's leadership and materiel developers with the necessary Capability Set (CS) modernization planning, critical path analysis, risk analysis and mitigation planning, system of systems engineering (SOSE), technical analysis and architectural products to inform the Army's materiel portfolio (5 and 30 year plans). This project explicitly includes critical Common Operating Environment (COE) and Cyber Security engineering, architecture and governance development tasks necessary to develop effective, affordable and secure network capabilities to meet Network 2020 and Force 2025 initiatives. This project captures and manages at the CS level, senior stakeholder guidance (i.e. TRADOC, G3/5/7, G2, and CIO/G6) to shape future Network Capability Sets (i.e. enterprise scope), 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 (IBD) requirements. This project defines and executes its mission in the context of a SoS Engineering Management Plan (SoSEMP), that provides comprehensive engineering, analysis and architecture processes across early CS requirements and roadmap development; engineering and analysis tasks; lab and field risk reduction efforts; NIE SoS scope CS evaluation; and unit-specific architectural planning support to boots-on-the-ground synchronized fielding execution. These SoSEMP processes deliver authoritative products at a CS/SoS and platform level that informs and captures senior leadership decisions, supporting critical path execution of CS modernization efforts, including Force 2025 initiatives. 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 authoritative system of system engineering, analysis and architecture products, through focused analysis & trades, against defined and managed CS goals and roadmap. These products provide timely and relevant information to inform decision makers in the Army's modernization prioritization challenges. These products are unique in that they encompass a cross-PEO, cross-portfolio perspective of modernization initiatives through the POM years, affording analysis activities at senior leadership levels for informing WSR/POM priorities, as well as more strategic challenges such as Force 2025 objectives. The products focus on critical path SoS dependencies necessary to define, evaluate and field CS capabilities, per ARFORGEN. These products are developed in tight coordination with a wide spectrum of stakeholder organizations, from G3 and TRADOC, to PEO/PMO leadership, to gaining units during synchronized fielding. The primary level of effort in this project is in the validation of its products with stakeholder SME, to assure they are relevant, validated and authoritative for supporting CS design and decision challenges. To aid senior leadership and engineering activities in comprehending the complexities of the cross-PEO/cross-portfolio/POM scope modernization planning challenges, this project provides for Formation-level Reference Architectures (OV-1's), 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 also included in the NCS Operational Capability Set. It enables analyses and trades

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army	Date: February 2015
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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY7 / <i>Army Systems Engineering, Architecture & Analysis</i>
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that use the reference architecture design data to inform implementation architectures and support informed systems acquisition decisions across the life cycle. These products are derived directly from an Integrated Basis of Issue Feeder Data (IBOIFD) product, that aggregates POR BOI feeder data, and becomes the managed fielding baseline plan for network procurement decisions, directly feeding unit-specific TOE/MTOE fielding baselines. This data provides for single authority within ASA(ALT) for System of Systems Implementation Architecture oversight to inform and manage governance and approvals of emerging SoS designs, defining necessary compliance guidance for SoS scope initiatives and concerns (i.e. COE and Cyber).

This project explicitly addresses the orchestration, management, and oversight Common Operation Environment (COE), an Army Priority 1 initiative. It includes development of vision, strategy, and plans for migrating solutions to a common infrastructure; increase the Army's cyber security posture; decrease life cycle costs; improve and simplify interoperability and integration; and leverage industry and government developed solutions.

This project provides ASA(ALT) Cyber Focal for all Cyber requirements. Synchronization and analysis of integrated capabilities, resources and requirements to enhance cyber security and resiliency across the materiel development and cyber operational communities. Lead ASA(ALT) implementation of Cyber requirements through analysis and decomposition of requirements, alignment with the appropriate programs, and synchronization of an integrated execution/acquisition approach. Provides governance and standards to enable the advancement of decisive cyber operations. Leads cross-portfolio resource planning and facilitates the materiel development and cyber operational communities through agile acquisition strategies. Manages ASA(ALT) mission assurance and compliance; Governance; Cyber Security; Cyber Architecture; and Defense Industrial Base (DIB) Cyber Security Office.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2014	FY 2015	FY 2016
<p>Title: Army System of System Engineering and Analysis</p> <p>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.</p> <p>FY 2014 Accomplishments: These funds provided the following: Synchronized enduring System-of-Systems (SoS) engineering and analysis to develop and deliver the following products: - Delivered supported architectural products for the CS17-21 WSR process - Delivered TCS15 and TCS 16 Reference Architecture to include networked vehicle diagram allowing PEOs/PMs to execute the fielding of CS 15/16 capabilities - Analyzed and integrated stakeholder strategies and roadmaps to identify acquisition modernization priorities that support engineering design of Reference Architectures for POM year Capability Sets - Supported development of the material solutions strategy Army Campaign Plan - Delivered IBCT and SBCT Analysis for TCS 15-19 - Refined AIC Mission threads for COE V1 - Developed and maintained ongoing analyses to shape evolving Army portfolio priorities</p>	10.368	6.814	9.553

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY7 / <i>Army Systems Engineering, Architecture & Analysis</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>-Developed and Delivered the LandWarNet (LWN) Network Capability Set (NCS) System of Systems (SoS) Reference Architecture (RA) and Specification (Spec)</p> <p>- Developed and Delivered the LWN NCS Institutional Capability Set SoS RA and Spec</p> <p>- Developed the LWN NCS Installation and Enterprise Component SoS RA and Spec (as components of the Institutional CS)</p> <p>- Developed and delivered Integrated Base Defense FY17 OCONUS Base Camps Reference Architecture</p> <p>- Developed and delivered Integrated Base Defense FY17 CONUS Installations Reference Architecture.</p> <p>FY 2015 Plans: These 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 design, develop, evaluate and field integrated and interoperable Tactical Capability Sets (TCS), including support products for developing Weapons System Review (WSR) packages for WSR 18-22: - 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,</p> <p>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. - Enterprise Component of the LWN NCS Institutional CS SoS RA - Installation Component of the LWN NCS Institutional CS SoS RA</p>				

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY7 / <i>Army Systems Engineering, Architecture & Analysis</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>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, including support products for Integrated Weapon Systems Review (I-WSR) FY18-22:</p> <ul style="list-style-type: none"> - Integrated Base Defense FY19 (Annual) OCONUS Base Camps Reference Architecture <p>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:</p> <ul style="list-style-type: none"> - 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. <p>FY 2016 Plans:</p> <p>These funds provide the following:</p> <ul style="list-style-type: none"> - Develop the acquisition Capability Set Modernization Matrix (CMM) for capturing, validating and managing CS2020 and CS2025 acquisition and stakeholder modernization objectives and goals, as an authoritative CS acquisition baseline document for informing CS prioritization, evaluation and fielding decisions. Integrate CMM data in the ASA(ALT) IMS. - Develop CS roadmaps, integral to ASA(ALT) IMS data, capturing critical path analysis to identify analysis/design, decision and POR delivery and fielding requirements for risk reduction, evaluation and fielding CS baselines per ARFORGEN. Provide specific and integrated roadmap products to manage co-evolution, programmatic coordination, integration and evaluation (i.e. NIE) of critical Network, COE, Cyber and evolving F2025 requirements supporting CS modernization. Develop and manage risk mitigation plans as identified as necessary to assure critical path execution. -Coordinate with PEO/POR, ARSTAFF, TRADOC stakeholders to capture and maintain an Integrated CS BOI Feeder Data (IBOIFD) baseline for all xBCT CS baselines in ARFORGEN, to define and analyze CS configuration baselines for planning and executing analysis tasks, decision challenges, evaluation (i.e. LBRR/NIE) and synchronized fielding requirements, and for informing WSR and POM procurement decisions. 				

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY7 / <i>Army Systems Engineering, Architecture & Analysis</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>- Identify and perform necessary analysis and design tasks (e.g. NCR, AMF studies) to inform CS design, decisions and evaluation guidance. Publish analysis in CS design guidance books as authoritative guidance to POR's for achieving CS SoS cross-PEO modernization objectives (e.g. Assured Position-Navigation-Timing, Tactical PKI).</p> <p>- Deliver senior leader level reference CS architecture products for communicating SoS acquisition objectives (i.e. Network, COE, Cyber, F2025), and informing decision activities driving CS modernization activities, for all relevant BCT types per ARFORGEN and evolving F2025 objectives, including dependencies on S&T, JIIM, generating force and enterprise scope IT/IS network assets.</p> <p>- Develop engineering-level formation/SoS, platform, COE and Cyber architectures to support analysis, T&E and Synchronized Fielding planning and execution activities, derived from and informing authoritative IBOIFD. Integrate architecture and IBOIFD data within authoritative TRADOC ARCADIE environment for assuring baseline product releases are managed in support of stakeholder needs.</p>				
<p>Title: Common Operating Environment (COE)</p> <p>Description: Provide Engineering, Orchestration, Oversight and Governance for the Army SoS Common Operating Environment (COE); provide integrated, cross-portfolio system engineering, architecture products and cost benefit analysis and synchronized Acquisition planning for COE crossing multiple PEOs and Computing Environments (CEs); provide SoS requirements decomposition; conduct COE related Verification & Validation (V&V) planning and testing; and serve as the DA Staff advocate for COE and Cross Cutting Capabilities (CCCs). Serve as the Trail Boss for ASA (ALT) I2E..</p> <p>FY 2014 Accomplishments: Funding provided technical support to oversee the execution of the COE Implementation plan, COE Orchestration, Governance, Cross-Cutting Capabilities Definition, an Implementation Plan Update, Software Build (SWB)/COE Configuration Control Board (CCB) and Test Support transition, Integrated Master Schedule, Coordination with Army Staff, Technical Reference Model, Metrics for assessing compliance, Technical Advisory Board (TAB), Chief Engineer (CE) compliance, COE assessment criteria, System software configuration baseline data collection, System software configuration baseline updates, Control Point/Interface Definition and Agreements, Transport Convergence, Network Synchronization Working Group organizing the SoS Engineering trade space for Platforms, Standards for the Platforms (VICTORY & FACE), Size Weight and Power (SWAP) working group, Software Blocking (SW), , Candidate Assessment for NIEs 14.2 and 15.1, and Technologies assessment, Systems Engineering Plan (SEP) policy, Reliability policy technical support, Standards & Specification adoption across ASA(ALT) and OSD/Joint, Development Planning model. It also provided for the development and execution of COE integration policies and procedures and the development of backwards capability testing, integration checklists and their verification. It provided for the development and effective utilization of emulator and integration tools, for COE/CE architecture validation, design baseline validation, and the verification of COE reference architecture compliance. It provided for the verification of COE critical enabler implementation,</p>		3.177	2.088	3.072

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY7 / <i>Army Systems Engineering, Architecture & Analysis</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>conducting risk assessments and analysis, accreditation and certification process refinement, and verification of technical test harness and tool development. It provided for the accreditation, certification and refinement of test plans and events.</p> <p>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 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.</p> <p>FY 2016 Plans: The funds provide the following: --Orchestration and COE Governance Execution: The funds provide Implementation Management, development and maintenance of the COE Integrated Master Schedule, oversight of Computing Environment (CE) Working Groups conducting cross-Computing Environment coordination and conflict resolution efforts, and ASA (ALT) support for the Army Staff Network Synchronization efforts. The funds support COE STRATCOM development and industry engagement, including business case development and COE Contracting strategies. The funds support authoring the annual AAE Systems of Systems directive which guides the evolution the Army SW Baseline, reliability policy technical support, and Standards & Specification adoption across ASA(ALT),</p>				

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY7 / <i>Army Systems Engineering, Architecture & Analysis</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>(OSD/Joint), Development Planning model. The funds guide COE/CE architecture validation management, engineering plan review, design baseline validation, and the verification of COE reference architecture compliance.</p> <p>--Requirements and Engineering: The funds provide COE Technical Baseline Development that provides a Technical Roadmap to the Programs of Record (POR) for future capability development and software integration within the COE. Funds provide development of COE Engineering Change Proposals and vetting. Funds provide Systems of Systems engineering and analysis to synchronize POR migration to COE, oversee COE Common Software Foundation Development, Cross-Cutting Capabilities engineering and prioritization, Implementation Plan Updates, building and publishing the COE Technical Reference Model, compliance assessment metrics development, Technical Advisory Board (TAB) management, Resource Working Group (RWG) management and cross-CE and PEO Systems of Systems engineering support, Transport Convergence, and SoS COE Architecture and Data Models.</p> <p>--Technical Management: The funds provide technical support to oversee the execution of the COE Implementation Plan and DA COE EXORD compliance and execution, including cost analysis, tasking management, Modular Open System Architecture Guidance development and implementation, verification of COE critical enabler implementation, and risk assessments and analysis. Funds provide COE CBA to support the JCIDS process.</p> <p>--Testing, Certification and Fielding Preparation: The funds support for integration, validation, and verification of PORs in preparation for certification testing. Funds provide support to multi-level COE Baseline testing, System software configuration baseline data collection, System software configuration baseline updates, Control Point/Interface Definition and Agreements, and COE assessment criteria development and implementation. Funds provide SoS COE Standards for the Platforms (VICTORY & FACE), support for the Size Weight and Power (SWAP) working group, Software Blocking (SW), Software Version COE Configuration Control Board (CCB), Test Support transition and NIE Gaps and Technologies assessment. The funds provide accreditation and certification process refinement, verification of technical test harness and tool development, and accreditation, certification, and refinement of test plans and events. It also provides for the development and execution of COE integration policies and procedures, infrastructure qualification, the development and implementation of backwards capability testing, integration checklists and their verification, test hardware development and control point testing implementation support, and the development and effective utilization of emulator and integration tools.</p>				
<p>Title: ASA(ALT) Cyber Focal</p> <p>Description: These funds support critical ASA(ALT) Cyber Focal staff synchronization, analysis and integration of Cyber functions and products.</p> <p>FY 2016 Plans: These funds provide for the following: - Cyber Programs: Support Cyber materiel development processes by continually researching innovative acquisition process as well as utilizing science and technology resources to take advantage of the available technology. Streamlined and rapid</p>		-	-	2.782

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015		
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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
<p>Cyber materiel development processes support the Army Cyber mission forces as well as Army life-cycled managed systems and networks against emerging/evolving Cyber threats.</p> <ul style="list-style-type: none"> - Mission Assurance and Compliance: Continue to improve the vulnerability management system, ensuring standardized compliance processes that provide flexibility to Program Managers and Commanders, allowing them to make decisions based on the vulnerability, risk and operational importance of the system or network; this provides Army Mission Assurance and Compliance processes and methodologies that are tailored to the system, network, and operations. - CIO Governance: Continue to manage the acquisition domain portfolio and business systems for ASA(ALT). Provide acquisition domain strategy, system binning requests, system assertions, system compliance reviews, problem statement review, CIO policy, system architecture, E2E process, policy and governance, data center consolidation, data management, CIO operations management, policy and governance and integration of Cyber and CIO resources. - Cyber security: Assist in the improvement of the system and network accreditation processes for life-cycle managed systems, that streamline the processes for quicker accreditation; this allows systems and networks to move through the development, testing and fielding processes, supporting rapid fielding of cyber capabilities and resilient systems to Warfighters. - Cyber Architecture: Provide cyber architecture subject matter expertise and cross PEO architecture integration, including systems engineering analysis and requirements decomposition of cyber requirements, and product support for Capability Set Fielding and Engineering and Integration architecture efforts. 				
<p>Title: Facilities and IT Support</p> <p>Description: Provides funding for infrastructure/facilities and IT support.</p> <p>FY 2014 Accomplishments: Provided funding for infrastructure/facilities. It included the cost for government IT support from Network connectivity to purchasing/leasing hardware, software, computers, communications equipment and services.</p> <p>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.</p> <p>FY 2016 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.</p>		1.119	0.736	1.009
Accomplishments/Planned Programs Subtotals		14.664	9.638	16.416

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army	Date: February 2015
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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY7 / <i>Army Systems Engineering, Architecture & Analysis</i>
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C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• DY3: <i>DY3 NIE Test & Evaluation</i>	14.494	24.773	12.215	-	12.215	13.588	11.717	11.739	11.887	Continuing	Continuing
• DY4: <i>DY4 Network Integration Support</i>	10.614	20.408	14.131	-	14.131	15.824	13.860	13.882	14.033	Continuing	Continuing
• DY5: <i>DY5 Production/Fielding Coordination for Capability Sets</i>	4.059	2.802	4.601	-	4.601	5.584	5.699	5.812	5.926	Continuing	Continuing
• DY6: <i>DY6 Brigade and Platform Integration Support</i>	4.108	23.559	45.504	-	45.504	59.703	69.926	64.194	64.185	Continuing	Continuing
• DZ6: <i>DZ6 Army Integration & Coordination Management</i>	6.548	4.026	6.375	-	6.375	7.794	8.010	8.213	8.422	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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY7 / <i>Army Systems Engineering, Architecture & Analysis</i>
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Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Army System of System Engineering and Analysis	TBD	Various Note: 1 : TBD	0.000	10.368	Nov 2013	6.814	Nov 2014	9.553	Nov 2015	-		9.553	-	26.735	-
Common Operating Environment (COE)	TBD	Various Note: 1 : TBD	0.000	3.177	Nov 2013	2.088	Nov 2014	3.072		-		3.072	-	8.337	-
ASA(ALT) Cyber	TBD	TBD : Various: Note 1	0.000	-		-		2.782	Nov 2015	-		2.782	-	2.782	-
Subtotal			0.000	13.545		8.902		15.407		-		15.407	-	37.854	-

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 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Facility and IT Support	TBD	Various: Note: 1 : TBD	0.000	1.119	Nov 2014	0.736	Nov 2014	1.009	Nov 2015	-		1.009	-	2.864	-
Subtotal			0.000	1.119		0.736		1.009		-		1.009	-	2.864	-

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)

Project Cost Totals	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
	0.000	14.664	9.638	16.416	-	16.416	-	40.718	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY7 / <i>Army Systems Engineering, Architecture & Analysis</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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																												
CS15 - Develop and Deliver CS 15 ABCT Reference Architecture																												
Continue development of IBD CONUS Installations refer. arch. for FY17																												
Continue development of IBD OCONUS Base Camps refer. archt. for FY17																												
Develop and deliver CCI OCONUS Base Camp refer. Arch. for FY16 & FY17																												
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																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY7 / <i>Army Systems Engineering, Architecture & Analysis</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020																																							
	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 B...																																																																
Develop and deliver Tech Eval Criteria, Refined GAPs and Scope of V...																																																																
Develop and deliver WSR package to PORs & PMs for WSR 18-22 f...																																																																
Develop and deliver Final BOI, PID, TD, DFD and NDB for CS17 Field...																																																																
Develop and deliver BOI, PID & TD for NIE16.2 Horse Blanket																																																																
Develop and deliver Refined GAPs and Objectives for NIE16.1's Sour...																																																																
Develop and deliver engineering-level formation/SoS, platform, COE a...																																																																
Review, update and deliver the Common Operating Environment (COE...																																																																
Develop and deliver Capability Set Modernization Matrix for CS2020 &																																																																
Develop and deliver effective emulator and integration tools																																																																
Develop and deliver CS roadmaps, integral to ASA(ALT) IMS data																																																																
Develop and deliver Capabilities Definition, Implementation Plan Upda...																																																																

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY7 / <i>Army Systems Engineering, Architecture & Analysis</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Provide engineering, analytical and architectural oversight	1	2013	1	2015
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
Develop and deliver engineering-level formation/SoS, platform, COE and Cyber arc	1	2016	4	2016
Review, update and deliver the Common Operating Environment (COE) Assessment Cri	1	2016	2	2016
Develop and deliver Capability Set Modernization Matrix for CS2020 & CS2025	4	2015	3	2016

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DY7 / <i>Army Systems Engineering, Architecture & Analysis</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
Develop and deliver effective emulator and integration tools	4	2015	4	2016
Develop and deliver CS roadmaps, integral to ASA(ALT) IMS data	2	2016	3	2016
Develop and deliver Capabilities Definition, Implementation Plan Updates,	3	2016	4	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>				Project (Number/Name) DZ6 / <i>Army Integration Management & Coordination</i>			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
DZ6: <i>Army Integration Management & Coordination</i>	-	6.548	4.026	6.375	-	6.375	7.794	8.010	8.213	8.422	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project supports 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 funds 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 Network Integration process and coordination of Production Integration and Fielding of the Capability Sets (CS). Effectively utilizing "shared" resources reduces overall cost to the program. The personnel funded by this project provides direct support to four directorates under ASA(ALT) SoSE&I; Engineering and Integration (E&I), Common Operating Environment (COE), Cyber Focal, and Capability Package.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2014	FY 2015	FY 2016
Title: SoSE&I Program Management and Integration	5.717	3.515	5.566
Description: This effort funds for all "shared" resources that supports the Brigade Analysis, Integration and Evaluation program.			
FY 2014 Accomplishments: This effort included program, information, security, business, and personnel management efforts required to support the SoSI integration teams. It included 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 personnel 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.			
FY 2016 Plans: This effort includes program, information, security, business, and personnel 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			

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DZ6 / <i>Army Integration Management & Coordination</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
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	0.831	0.511	0.809
Description: Provides funding for infrastructure/facilities and IT support.			
FY 2014 Accomplishments: Provided 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.			
FY 2016 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	6.548	4.026	6.375

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• DY3: <i>DY3 NIE Test & Evaluation</i>	14.494	24.773	12.215	-	12.215	13.588	11.717	11.739	11.887	Continuing	Continuing
• DY4: <i>DY4 Network Integration Support</i>	10.614	20.408	14.131	-	14.131	15.824	13.860	13.882	14.033	Continuing	Continuing
• DY5: <i>DY5 Production/Fielding Coordination for Capability Sets</i>	4.059	2.802	4.601	-	4.601	5.584	5.699	5.812	5.926	Continuing	Continuing
• DY6: <i>DY6 Brigade and Platform Integration Support</i>	41.048	23.599	45.504	-	45.504	59.703	63.926	64.194	64.185	Continuing	Continuing
• DY7: <i>DY7 Army Systems Engineering, Architecture and Analysis</i>	14.664	9.638	16.416	-	16.416	19.914	20.490	21.142	21.887	Continuing	Continuing

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: February 2015
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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

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DZ6 / <i>Army Integration Management & Coordination</i>
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Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
SoSE&I Program Management and Integration	TBD	Various Note: 1 : TBD	0.000	5.717	Nov 2013	3.515	Nov 2014	5.566	Nov 2015	-		5.566	-	14.798	-
Subtotal			0.000	5.717		3.515		5.566		-		5.566	-	14.798	-

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)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Facilities and IT Support	TBD	Various Note: 1 : TBD	0.000	0.831	Nov 2013	0.511	Nov 2014	0.809	Nov 2015	-		0.809	-	2.151	-
Subtotal			0.000	0.831		0.511		0.809		-		0.809	-	2.151	-

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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	6.548	4.026	6.375	-	6.375	-	16.949	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DZ6 / <i>Army Integration Management & Coordination</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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																												
(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																												
(2) NIE 15.1 Industry Day																												
(3) NIE 15.1 DP 1																												
(4) NIE 15.1 DP 2																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DZ6 / <i>Army Integration Management & Coordination</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 15.1 Lab Integration/Testing NIE 15.1 L																												
NIE 15.1 Candidate Solution Integration NIE 15.1 C																												
NIE 15.1 LoadEx NIE 15.1 Loadl																												
NIE 15.1 CommEx NIE 15.1 Comr																												
NIE 15.1 Pilot NIE 15.1 Pilot																												
NIE 15.1 Event NIE 15.1 Event																												
NIE 15.1 Event Analysis & Summary NIE 15.1 Event Ana																												
NIE 15.2 Planning - Execution																												
(1) NIE 15.2 Industry Day NIE 15.2 Ir																												
(2) NIE 15.2 DP 1 NIE 15.2 DP 1																												
(3) NIE 15.2 DP 2 NIE 15.2 DP 2																												
NIE 15.2 Lab Integration/Testing NIE 15.2 Lab Integr																												
NIE 15.2 Candidate Solution Integration NIE 15.2 Candidate Solu																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DZ6 / <i>Army Integration Management & Coordination</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 LoadEx	NIE 15.2 LoadEx				■																							
NIE 15.2 CommEx	NIE 15.2 CommEx				■																							
NIE 15.2 Pilot	NIE 15.2 Pilot				■																							
NIE 15.2 Event	NIE 15.2 Event				■																							
NIE 15.2 Event Analysis & Summary	NIE 15.2 Event Analysis & Summary				■																							
NIE 16.1 Planning - Execution	NIE 16.1 Planning - Execution				■																							
(1) NIE 16.1 Industry Day	NIE 16.1 Industry Day				▲ 1																							
(2) NIE 16.1 DP 1	NIE 16.1 DP 1				▲ 2																							
NIE 16.1 DP 2	NIE 16.1 DP 2				■																							
NIE 16.1 Lab Integration/Testing	NIE 16.1 Lab Integration/Testing				■																							
NIE 16.1 Candidate Solution Integration	NIE 16.1 Candidate Solution Integration				■																							
NIE 16.1 LoadEx	NIE 16.1 LoadEx				■																							
NIE 16.1 CommEx	NIE 16.1 CommEx				■																							

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DZ6 / <i>Army Integration Management & Coordination</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 16.1 Pilot					NIE 16.1 Pilot																							
NIE 16.1 Event					NIE 16.1 Event																							
NIE 16.2 Planning - Execution					NIE 16.2 Planning - Execution																							
NIE 16.2 Industry Day					NIE 16.2 Industry Day																							
NIE 16.2 DP 1					NIE 16.2 DP 1																							
NIE 16.2 DP 2					NIE 16.2 DP 2																							
NIE 16.2 Lab Integration/Testing					NIE 16.2 Lab Integration/Testing																							
NIE 16.2 Candidate Solution Integration					NIE 16.2 Candidate Solution Integration																							
NIE 16.2 ValEx					NIE 16.2 ValEx																							
NIE 16.2 CommEx					NIE 16.2 CommEx																							
NIE 16.2 Pilot					NIE 16.2 Pilot																							
NIE 16.2 Event					NIE 16.2 Event																							
NIE 16.2 Event Analysis & Summary					NIE 16.2 Event Analysis & Summary																							

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DZ6 / <i>Army Integration Management & Coordination</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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 17.1 Planning - Execution	NIE 17.1 Planning - Execution																											
NIE 17.1 Industry Day																												
NIE 17.1 DP 1																												
NIE 17.1 DP 2																												
NIE 17.1 Lab Integration/Testing																												
NIE 17.1 Candidate Solution Integration																												
NIE 17.1 ValEx																												
NIE 17.1 CommEx																												
NIE 17.1 Pilot																												
NIE 17.1 Event																												
NIE 17.1 Event Analysis & Summary																												
CS14 Capability Set																												
NIE 16.1 Event Analysis & Summary																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DZ6 / <i>Army Integration Management & Coordination</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
CS14 Build & Integration																												
CS14 NEW Equipment Training (NET)																												
CS14 NEW Equipment Fielding (NEF)																												
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																												
CS16 NEW Equipment Training (NET)																												
CS16 NEW Equipment Fielding (NEF)																												

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DZ6 / <i>Army Integration Management & Coordination</i>
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Event Name	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	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
CS17 Capability Set	CS17 Capability Set				[Redacted]																							
CS17 Architecture Design					[Redacted]																							
CS17 Build & Integration	CS17 Build & Integration				[Redacted]																							

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DZ6 / <i>Army Integration Management & Coordination</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
NIE 14.2 Planning - Execution	2	2013	3	2014
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
NIE 15.2 Planning - Execution	2	2014	3	2015
NIE 15.2 Industry Day	3	2014	3	2014

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DZ6 / <i>Army Integration Management & Coordination</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
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
NIE 16.2 Planning - Execution	4	2015	3	2016
NIE 16.2 Industry Day	4	2015	4	2015
NIE 16.2 DP 1	4	2015	4	2015
NIE 16.2 DP 2	4	2015	4	2015
NIE 16.2 Lab Integration/Testing	1	2016	3	2016
NIE 16.2 Candidate Solution Integration	2	2016	2	2016

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DZ6 / <i>Army Integration Management & Coordination</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
NIE 16.2 ValEx	2	2016	3	2016
NIE 16.2 CommEx	3	2016	3	2016
NIE 16.2 Pilot	3	2016	3	2016
NIE 16.2 Event	3	2015	3	2016
NIE 16.2 Event Analysis & Summary	3	2016	3	2016
NIE 17.1 Planning - Execution	1	2016	1	2017
NIE 17.1 Industry Day	1	2016	1	2016
NIE 17.1 DP 1	2	2016	2	2016
NIE 17.1 DP 2	2	2016	2	2016
NIE 17.1 Lab Integration/Testing	3	2016	1	2017
NIE 17.1 Candidate Solution Integration	4	2016	4	2016
NIE 17.1 ValEx	4	2016	4	2016
NIE 17.1 CommEx	1	2017	1	2017
NIE 17.1 Pilot	1	2017	1	2017
NIE 17.1 Event	1	2017	1	2017
NIE 17.1 Event Analysis & Summary	1	2017	1	2017
CS14 Capability Set	4	2012	2	2015
NIE 16.1 Event Analysis & Summary	1	2016	1	2016
CS14 Build & Integration	3	2012	4	2014
CS14 NEW Equipment Training (NET)	1	2014	2	2015
CS14 NEW Equipment Fielding (NEF)	1	2014	2	2015
CS15 Capability Set	3	2013	2	2016
CS15 Architecture Design	3	2013	3	2014
CS15 Build & Integration	4	2013	4	2015
CS15 NEW Equipment Training (NET)	2	2015	2	2016

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army **Date:** February 2015

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604798A / <i>Brigade Analysis, Integration and Evaluation</i>	Project (Number/Name) DZ6 / <i>Army Integration Management & Coordination</i>
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Events	Start		End	
	Quarter	Year	Quarter	Year
CS15 NEW Equipment Fielding (NEF)	2	2015	2	2016
CS16 Capability Set	4	2014	2	2017
CS16 Architecture Design	4	2014	2	2015
CS16 Build & Integration	1	2015	4	2016
CS16 NEW Equipment Training (NET)	2	2016	1	2017
CS16 NEW Equipment Fielding (NEF)	3	2016	2	2017
CS17 Capability Set	2	2015	2	2018
CS17 Architecture Design	2	2015	3	2016
CS17 Build & Integration	3	2015	4	2017