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**Department of Defense
Fiscal Year (FY) 2015**

March 2014



The Joint Staff

Defense Wide Justification Book Volume 5 of 5

Research, Development, Test & Evaluation, Defense-Wide

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Department of Defense
 FY 2015 President's Budget
 Exhibit R-1 FY 2015 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Feb 2014

Appropriation	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base
Research, Development, Test & Eval, DW	104,689	125,016		125,016	150,372
Total Research, Development, Test & Evaluation	104,689	125,016		125,016	150,372

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Department of Defense
 FY 2015 President's Budget
 Exhibit R-1 FY 2015 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Feb 2014

Summary Recap of Budget Activities -----	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base
-----	-----	-----	-----	-----	-----
Advanced Technology Development	15,841	12,667		12,667	
Advanced Component Development And Prototypes	9,771	41,908		41,908	67,104
Management Support	67,126	51,253		51,253	65,049
Operational System Development	11,951	19,188		19,188	18,219
Total Research, Development, Test & Evaluation	104,689	125,016		125,016	150,372
 Summary Recap of FYDP Programs -----					
General Purpose Forces	3,603	3,148		3,148	12,163
Intelligence and Communications	3,975	8,394		8,394	11,552
Research and Development	92,963	109,999		109,999	122,248
Administration and Associated Activities	4,148	3,475		3,475	4,409
Total Research, Development, Test & Evaluation	104,689	125,016		125,016	150,372

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Defense-Wide
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

14 Feb 2014

Summary Recap of Budget Activities -----	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base
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Defense-Wide
FY 2015 President's Budget
Exhibit R-1 FY 2015 President's Budget
Total Obligational Authority
(Dollars in Thousands)

14 Feb 2014

Appropriation -----	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base
The Joint Staff	104,689	125,016		125,016	150,372
Total Research, Development, Test & Evaluation	104,689	125,016		125,016	150,372

Defense-Wide
 FY 2015 President's Budget
 Exhibit R-1 FY 2015 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Feb 2014

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base	S e c
--	-----	----	---	-----	-----	-----	-----	-----	-
67	0603828J	Joint Experimentation	03	15,841	12,667		12,667		U
		Advanced Technology Development		15,841	12,667		12,667		
104	0604445J	Wide Area Surveillance	04		27,000		27,000	53,000	U
107	0604787J	Joint Systems Integration	04	3,230	7,402		7,402	7,002	U
108	0604828J	Joint FIRES Integration and Interoperability Team	04	6,541	7,506		7,506	7,102	U
		Advanced Component Development And Prototypes		9,771	41,908		41,908	67,104	
142	0605126J	Joint Integrated Air and Missile Defense Organization (JIAMDO)	06	63,151	42,772		42,772	43,176	U
167	0204571J	Joint Staff Analytical Support	06		87		87	10,321	U
170	0303166J	Support to Information Operations (IO) Capabilities	06	3,975	8,394		8,394	11,552	U
		Management Support		67,126	51,253		51,253	65,049	
185	0607828J	Joint Integration and Interoperability	07	4,200	12,652		12,652	11,968	U
186	0208043J	Planning and Decision Aid System (PDAS)	07	3,603	3,061		3,061	1,842	U
241	0902298J	Management HQ - OJCS	07	4,148	3,475		3,475	4,409	U
		Operational System Development		11,951	19,188		19,188	18,219	
Total Research, Development, Test & Eval, DW				104,689	125,016		125,016	150,372	

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The Joint Staff
 FY 2015 President's Budget
 Exhibit R-1 FY 2015 President's Budget
 Total Obligational Authority
 (Dollars in Thousands)

14 Feb 2014

Appropriation: 0400D Research, Development, Test & Eval, DW

Line No	Program Element Number	Item	Act	FY 2013 (Base & OCO)	FY 2014 Base Enacted	FY 2014 OCO Enacted	FY 2014 Total Enacted	FY 2015 Base	S e c
--	-----	----	---	-----	-----	-----	-----	-----	-
67	0603828J	Joint Experimentation	03	15,841	12,667		12,667		U
		Advanced Technology Development		15,841	12,667		12,667		
104	0604445J	Wide Area Surveillance	04		27,000		27,000	53,000	U
107	0604787J	Joint Systems Integration	04	3,230	7,402		7,402	7,002	U
108	0604828J	Joint FIRES Integration and Interoperability Team	04	6,541	7,506		7,506	7,102	U
		Advanced Component Development And Prototypes		9,771	41,908		41,908	67,104	
142	0605126J	Joint Integrated Air and Missile Defense Organization (JIAMDO)	06	63,151	42,772		42,772	43,176	U
167	0204571J	Joint Staff Analytical Support	06		87		87	10,321	U
170	0303166J	Support to Information Operations (IO) Capabilities	06	3,975	8,394		8,394	11,552	U
		Management Support		67,126	51,253		51,253	65,049	
185	0607828J	Joint Integration and Interoperability	07	4,200	12,652		12,652	11,968	U
186	0208043J	Planning and Decision Aid System (PDAS)	07	3,603	3,061		3,061	1,842	U
241	0902298J	Management HQ - OJCS	07	4,148	3,475		3,475	4,409	U
		Operational System Development		11,951	19,188		19,188	18,219	
Total The Joint Staff				104,689	125,016		125,016	150,372	

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Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

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Budget Activity 04: Advanced Component Development & Prototypes (ACD&P)
Appropriation 0400: Research, Development, Test & Evaluation, Defense-Wide

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107	04	0604787J	Joint Systems Integration.....	Volume 5 - 9
108	04	0604828J	Joint FIRES Integration and Interoperability Team.....	Volume 5 - 19

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***Budget Activity 06: RDT&E Management Support
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167	06	0204571J	Joint Staff Analytical Support (JSAS).....	Volume 5 - 43
170	06	0303166J	Support to Information Operations Capability.....	Volume 5 - 49

***Budget Activity 07: Operational Systems Development
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185	07	0607828J	Joint Integration & Interoperability.....	Volume 5 - 53
186	07	0208043J	Planning and Decision Aid System (PDAS).....	Volume 5 - 59
241	07	0902298J	Management Headquarters.....	Volume 5 - 63

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)</i>	R-1 Program Element (Number/Name) PE 0603828J <i>I Joint Experimentation</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	15.841	12.667	-	-	-	-	-	-	-	Continuing	Continuing
P01: <i>Joint Experimentation</i>	0.000	15.841	12.667	-	-	-	-	-	-	-	Continuing	Continuing

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

A. Mission Description and Budget Item Justification

The Joint Experimentation (JE) Program Element provides funding for the Department's Joint Concept Development & Experimentation (JCD&E) effort, carried out by the JCD&E Community.

The JCD&E Community is comprised of the Combatant Commands (CCMDs), Services, the Office of the Secretary of Defense (OSD), the Joint Staff, the National Guard Bureau (NGB), the United States Coast Guard (USCG), and several Defense agencies. Intra-government agencies and coalition partners often participate in JCD&E processes and projects. The Director for Joint Force Development (DJ-7) leads the joint force development efforts on behalf of the Chairman. The J-7 staff coordinates all efforts with respect to the JCD&E Community.

To ensure the program focuses on needs of the warfighters, JCD&E initiatives originate from an annual call for nominations from CCMD's and Services, and from assessment of combatant command identified critical warfighting capability gaps articulated in the Comprehensive Joint Assessment (CJA). JCD&E project submissions undergo preliminary analysis by the JCD&E Community to confirm suitability for experimentation and, where feasible, to associate closely related subjects for economy of effort. Preliminary analysis also confirms alignment to the Chairman's priorities for developing Joint Force 2020 and Defense Planning Guidance (DPG) strategic priority areas. The resultant annual list of project submissions includes concepts for development and experimentation efforts eligible for design and execution. These efforts are prioritized and approved by the combatant command and Service members of the Synchronization Board and forwarded to the Joint Capabilities Board (JCB) and the Joint Requirements Oversight Council (JROC) for approval.

JCD&E activities examine potential solutions for CCMD operational needs emphasizing non-materiel solutions through targeted Doctrine, Organizational, Training, Leadership and Education, Personnel, Facilities, and Policy (DOT-LPF-P) improvements. JCD&E tackles joint concept and capability issues demanding sophisticated analysis, innovative design, and complex execution. JCD&E projects address topics that would prove difficult for individual combatant commands and Services to capture in the context of their immediate operational and force generation responsibilities. In partnership with the combatant commands and Services, JCD&E mitigates operational risk by establishing procedural models to conduct emergent concepts that are not yet instantiated in conventional force generation. The results are provided to Functional Capability Boards who integrate solutions into their functional investment plans.

Based on leadership guidance, JS J7 shed themselves of the experimentation functions originally outlined in the Joint Experimentation R2. While JS J7 divested this piece, the other portions such as concept development and wargaming were retained. The shift in focus aligns more closely with those functions under BA6 RDT&E Management Support. As a result, this line was zeroed and the remaining requirement was realigned to PE 0204571J, Joint Staff Analytical Support.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff	Date: March 2014
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 3: Advanced Technology Development (ATD)</i>	R-1 Program Element (Number/Name) PE 0603828J <i>I Joint Experimentation</i>
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B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	21.230	12.667	-	-	-
Current President's Budget	15.841	12.667	-	-	-
Total Adjustments	-5.389	-	-	-	-
• Congressional General Reductions	-0.028	-			
• Congressional Directed Reductions	-1.701	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-3.660	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

FY 2013 was the first year PE 0603828J, Joint Experimentation, was in the Joint Staff's account. Prior to FY 2013, OUSD (Research & Evaluation) owned the funding and reported the information on their budget exhibits.

The Chairman, Joint Chiefs of Staff directed the J7 to transform the Joint Experimentation program. The reduction in BA3 funding between FY 2013 and FY 2014 is part of the transformation from Joint Experimentation to a Joint Assessment Program.

Based on leadership guidance, JS J7 shed themselves of the experimentation functions originally outlined in the Joint Experimentation R2. While JS J7 divested this piece, the other portions such as concept development and wargaming were retained. The shift in focus aligns more closely with those functions under BA6 RDT&E Management Support. As a result, this line was zeroed and the remaining requirement was realigned to PE 0204571J, Joint Staff Analytical Support.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: Joint Experimentation	15.841	12.667	-
Description: The Joint Experimentation (JE) Program Element provides funding for the Department's Joint Concept Development & Experimentation (JCD&E) effort, carried out by the JCD&E Community.			
The JCD&E Community is comprised of the Combatant Commands, Services, the Office of the Secretary of Defense (OSD), the Joint Staff, the National Guard Bureau (NGB), the United States Coast Guard (USCG), and several Defense agencies. Intra-government agencies and coalition partners often participate in JCD&E processes and projects. The Director for Joint Force Development (DJ-7) leads the joint force development efforts on behalf of the Chairman. The J-7 staff coordinates all efforts with respect to the JCD&E Community.			
FY 2013 Accomplishments:			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff	Date: March 2014
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I</i> BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 Program Element (Number/Name) PE 0603828J <i>I Joint Experimentation</i>
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
<p>The FY 2013 Program of Work included projects supporting the President’s “Sustaining U.S. Global Leadership Priorities for the 21st Century Defense”. Specific projects focused on capabilities critical to the success of the future joint force, including intelligence, surveillance, and reconnaissance; counterterrorism; countering weapons of mass destruction; operating in anti-access environments, and prevailing in all domains, including cyber.</p> <p>FY 2014 Plans:</p> <p>(1) The Chairman, Joint Chiefs of Staff directed the J7 to transform the Joint Experimentation program. The reduction in BA3 funding between FY 2013 and FY 2014 is part of the transformation from Joint Experimentation to a Joint Assessment program in BA6.</p> <p>(2) FY 2014 efforts will focus on supporting the President’s “Sustaining U.S. Global Leadership Priorities for the 21st Century Defense” with emphasis on implementing the Joint Operational Access Concept, and building Joint Force 2020 as described in the Chairman, Joint Chiefs of Staff Capstone Concept for Joint Operations. Specific work will focus on concepts, and gap analysis and the resultant recommended non-materiel solutions that will improve current and future joint force capability including operating in anti-access and area denial environments, joint command & control, intercontinental missile defense, counterterrorism, operations in space, and defeating threats in all domains, including cyber.</p>			
Accomplishments/Planned Programs Subtotals	15.841	12.667	-

D. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

E. Acquisition Strategy

N/A

F. Performance Metrics

JCD&E efforts result in development of and integration or transition of concepts and capabilities to improve current and future joint force capability, and are measured by the following:

- (1) Concepts accounted for lessons learned reports, Joint and Coalition Operational Analysis studies, training exercises, past wargames, previous operations, and other historically captured events.
- (2) Collaborated with a broad, cross-cutting representation from Services, Academia, CCMDs, Defense Agencies, and Industry.
- (3) Introduced innovative operating methods leading to Doctrine, Organization, Training, Materiel, Leadership, Personnel & Facilities (DOTmLPF) changes.
- (4) Vetted through a deliberate, rigorous process resulting in Chairman of the Joint Chiefs of Staff (CJCS) endorsement and approval.
- (5) Capabilities identified in concepts are described in a way to facilitate transition to gap analysis.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff		Date: March 2014
Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> / BA 3: <i>Advanced Technology Development (ATD)</i>	R-1 Program Element (Number/Name) PE 0603828J / <i>Joint Experimentation</i>	
<p>(6) Assessments have considered concepts, lessons learned, operational studies, and planned/projected force capabilities.</p> <p>(7) Assessments are coordinated with relevant community of practice, current subject matter experts, industry, academia, and appropriate multinational partners.</p> <p>(8) Assessments are completed in a responsive and timely manner, and staffed in accordance with established Department of Defense policy and guidelines.</p> <p>(9) Provided sound, supportable recommendations derived from assessments that succinctly addressed identified gaps with practical and actionable options that directly or indirectly improved capabilities.</p> <p>(10) Recommendations were appropriately transitioned to designated action offices of responsibility.</p>		

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604445J / <i>Wide Area Surveillance</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	-	27.000	53.000	-	53.000	-	-	-	-	-	80.000
P001: <i>Wide Area Surveillance</i>	0.000	-	27.000	53.000	-	53.000	-	-	-	-	-	80.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

The Wide Area Surveillance (WAS) program element is new to the Joint Staff in FY 2014. WAS funds the continued management, advanced research and development, and prototype evaluation of Homeland Surveillance technologies with the goal of improved Joint Integrated Air and Missile Defense in the homeland. Additional details of the program are classified.

FY 2014 activities include, but are not limited to, advanced technology development, program management, and those efforts to support transition of the program to the U.S. Air Force in FY 2016.

This program is in Budget Activity 4, Advance Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

Details of this project are classified.

B. Program Change Summary (\$ in Millions)	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015 Base</u>	<u>FY 2015 OCO</u>	<u>FY 2015 Total</u>
Previous President's Budget	-	30.000	53.000	-	53.000
Current President's Budget	-	27.000	53.000	-	53.000
Total Adjustments	-	-3.000	-	-	-
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-3.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

The WAS Program Element is new to the Joint Staff in FY 2014 and will transfer to the U.S. Air Force in FY 2016.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff	Date: March 2014
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604445J / <i>Wide Area Surveillance</i>
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Title: Wide Area Surveillance	-	27.000	53.000
FY 2014 Plans: Details of this program are classified.			
FY 2015 Plans: Details of this program are classified.			
Accomplishments/Planned Programs Subtotals	-	27.000	53.000

D. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

E. Acquisition Strategy

Details of this program are classified.

F. Performance Metrics

Details of this program are classified.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 The Joint Staff		Date: March 2014
Appropriation/Budget Activity 0400 / 4	R-1 Program Element (Number/Name) PE 0604445J / <i>Wide Area Surveillance</i>	Project (Number/Name) P001 / <i>Wide Area Surveillance</i>

Remarks

To be determined. Details of this program are classified.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604787J I <i>Joint Systems Integration</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	3.230	7.402	7.002	-	7.002	6.839	6.938	7.086	7.086	Continuing	Continuing
P787: <i>Joint Systems Integration</i>	0.000	3.230	7.402	7.002	-	7.002	6.839	6.938	7.086	7.086	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

In support of the Chairman’s responsibility for the assessment of the capability and adequacy of United States forces to successfully execute the National Military Strategy, the Joint Systems Integration (JSI) Program Element provides mission funding for the Joint Staff Command, Control, Communications, and Computers (C4) directorate (J6) to conduct interoperability assessments, and develop solutions/recommendations to improve integration of Service, Defense Agency, and coalition systems.

C4 Assessments performed in the Persistent Command and Control Environment replicate an operational environment and provides Combatant Commands, Services, Agencies and Coalition partners at the joint force headquarters level, a laboratory and assessment venue for the warfighter and capability developer to identify and solve interoperability and integration issues with current and near-term joint and coalition capabilities. This capability assesses system of systems interoperability, operational capability, procedural compliance, and technical suitability of emerging and existing systems and programs to confirm readiness for deployment.

By establishing ground truth for interoperability and suggesting remedies for demonstrated shortfalls, C4 Assessments is an enabler for the Chairman’s priorities to: pioneer new ways to combine and employ emergent capabilities, drive jointness deeper, sooner in-capability development, move quickly toward joint information and simulation networks that support secure and agile command and control, expand the envelope of interagency and international cooperation, and promote multilateral security approaches and architectures.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff	Date: March 2014
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604787J <i>I Joint Systems Integration</i>
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B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	3.273	7.402	7.009	-	7.009
Current President's Budget	3.230	7.402	7.002	-	7.002
Total Adjustments	-0.043	-	-0.007	-	-0.007
• Congressional General Reductions	-0.043	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Change	-	-	-0.007	-	-0.007

Change Summary Explanation

Additional resources allocated to support mission requirements that transitioned to the Joint Staff after U.S. Joint Forces Command (JFCOM) disestablishment.

FY 2014 Changes:

In FY 2014, funding transferred out of TJS O&M account to RDT&E to more appropriately fund the Joint Systems Integration mission to conduct interoperability assessments and develop solutions to improve integration of Services, Defense Agencies, and coalition Command, Control, Communication, and Computer (C4) systems.

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
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Title: Interoperability Assessments (IA) and Interoperability Technology Demonstration Center (ITDC)	1.233	2.894	2.738
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Description: Primary outcome for this effort is seamless interoperability between DoD and coalition C2 systems supporting the warfighter. IA supports the interoperability assessment of systems in five categories: operational, system of systems, technical, software, and procedural. These assessments provide supporting justification for continued development of a program within the acquisition system and resolve capability shortfalls of fielded systems.

FY 2013 Accomplishments:

(1) Continued the efforts initiated for FY 2012 and responded to unpredictable operational issues and shortfalls. Interoperability assessments were conducted to solve warfighter problems, including coalition challenges. FY 2013 assessment objectives were focused on: Information Sharing Capabilities, Intelligence support to Command and Control, Joint Fires Capabilities, Data Strategy Implementation, Tactical Edge Integration, and Cyberspace.

	1.233	2.894	2.738
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604787J / <i>Joint Systems Integration</i>
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
<p>(2) Afghanistan Mission Network (AMN) Coalition Interoperability Assurance Validation (CIAV) Assessments – AMN is the primary Coalition, Command, Control and Communication and Computer, Intelligence, Surveillance, and Reconnaissance (C5ISR) network for International Security Assistance Forces (ISAF) in Afghanistan. C4AD is supporting the assessment of Coalition Mission Threads (CMTs) and Coalition Tactics, Techniques and Procedures (CTTPs) to identify and correct ISAF interoperability problems. FY 2013 AMN mission areas included: Joint ISR, Battlespace Management, and Service Management.</p> <p>(3) Bold Quest 2013 (BQ13) Technical Support and Interoperability Assessments – Assessed interoperability and documented identified deficiencies of select systems during BQ13 operational venues.</p> <p>(4) Joint Fires Support Joint Mission Thread (JFS JMT) – Assessed and documented deficiencies in the operational fire support system interoperability matrix. Fire support systems evaluated include: Advanced Field Artillery Tactical Data System (AFATDS), Distributed Command Ground Station (DCGS), Joint Automated Deep Operations Coordination System (JADOCS), Theater Battle Management Core System (TBMCS), and Joint Targeting Tool-Kit (JTT).</p> <p>(5) Unified Cross Domain Management Office (UCDMO) Enterprise Cross Domain Solutions (ECDS) Owl File Transfer Interoperability Assessment – Conducted a capability assessment of the Owl Enterprise Cross Domain Solution, measuring the functional strengths and weaknesses against UCDMO prescribed criteria.</p> <p>(6) Coalition Warrior Interoperability Experiment (CWIX) 2013 Interoperability Assessments – Conducted interoperability assessments between selected systems within the following mission areas; Coalition Fires, Coalition Intelligence, Surveillance, Reconnaissance (ISR), and Coalition Ballistic Missile Defense during the Coalition Warrior Interoperability Exercise (CWIX) event.</p> <p>(7) Joint Cross Domain eXchange (JCDX) Interoperability Assessment – Assessed JCDX, a multi-level security capability, designed to exchange the common operational picture and support record/tactical communications between U.S. and Coalition forces.</p> <p>(8) NATO Modeling & Simulation Centre of Excellence (M&S COE) – U.S. Command and Control Interoperability Assessment – Assessed the exchange of C2 data between the U.S. Global Command and Control System Joint (GCCS-J) and the Italian Sistema Automatizzato di Comando e Controllo (SIACCON) system. SIACCON is a distributed C2 system that provides battle management support across a range of functions for the Italian Army.</p> <p>(9) Automated NATO Database Interface (ANDI) Interoperability Assessment – Assessed data transfer functions between Global Command and Control System-Joint (GCCS-J) targeting application and the NATO Integrated Command and Control (ICC) system.</p>			

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
<p>(10) JC2 Map-based Adaptive Planning Course of Action Tool (MAPCAT) Technical and Operational Assessment – Assessed MAPCAT using USEUCOM and service components to determine the operational value of the system.</p> <p>(11) Network Effects Emulation System Technical Assessment (NE2S TA) – Conducted a technical assessment of NE2S to validate functionality and performance.</p> <p>(12) Mission Partner Environment (MPE) Joining, Membership and Exit Instructions (JMEI) Assessments – Assessed baseline group of JMEI templates during Exercise Combined Endeavor.</p> <p>FY 2014 Plans:</p> <p>(1) Continue the efforts initiated for FY 2013 and respond to unpredictable operational issues and shortfalls. Interoperability assessments will be conducted to solve warfighter problems, including coalition challenges. FY 2014 assessment objectives are focused on: Cyberspace, Mission Partner Environment, Common Operational Picture, Wireless to the Tactical Edge, Joint Fires Capabilities, Data Strategy Implementation, and Information Sharing Capabilities.</p> <p>(2) Afghanistan Mission Network (AMN) Coalition Interoperability Assurance Validation (CIAV) Transition and Assessments – AMN is the primary Coalition, Command, Control and Communications and Computers, Intelligence, Surveillance, and Reconnaissance (C5ISR) network for International Security Assistance Forces (ISAF) in Afghanistan. C4AD is supporting the assessment of Coalition Mission Threads (CMTs) and Coalition Tactics, Techniques and Procedures (CTTPs) to identify and correct interoperability problems.</p> <p>(3) Bold Quest 2014 (BQ14) Technical Support and Interoperability Assessments – Assess interoperability and document identified deficiencies of select systems within the joint fires mission thread during BQ14 operational venues.</p> <p>(4) Digitally-Aided Joint Fires Support and Assessment – Assess the implementation of various messaging standards for Close Air Support (CAS) mission execution.</p> <p>(5) Coalition Interoperability Assessments – Conduct interoperability assessments between selected systems during the Coalition Warrior Interoperability Experiment (CWIX) 2014 event.</p> <p>(6) Deliberate and Dynamic Targeting Interoperability Assessment – Assess the system interoperability of selected systems during Exercise Terminal Fury 2014.</p>			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
<p>(7) C4-Intelligence, Surveillance, Reconnaissance (C4ISR) Interoperability Assessments – Assess interoperability of Service systems to Global Command and Control System-Joint (GCCS-J).</p> <p>(8) Unified Cross Domain Management Office (UCDMO) Enterprise Cross Domain Solutions (ECDS) Capability Assessment – Conduct a capability assessment of the specified ECDS, measuring the functional strengths and weaknesses against UCDMO prescribed criteria.</p> <p>(9) Mission Partner Environment (MPE) U.S. Development and Assessment and Federated Mission Networking (FMN) Development and Support – Provide interoperability assessments of selected U.S. and Coalition systems.</p> <p>(10) Network Integration Evaluation (NIE) Interoperability Assessment – Assess potential networked and non-networked capabilities in a robust operational environment.</p> <p>(11) Tactical Infrastructure Enterprise Services (TIES) Coalition Warfare Program (CWP) Interoperability Assessments – Assess the capability of sharing data from authoritative data sources using web services in a C2 Core conformant, standardized data format.</p> <p>(12) Distributed Common Ground System-Army (DCGS-A) Interoperability Assessment – Assess DCGS-A v3.1.7 (3.2x) interface to the Modernized Integrated Database (MIDB).</p> <p>FY 2015 Plans: Continue the efforts initiated for FY 2014 and respond to unpredictable operational issues and shortfalls. Interoperability assessments will be conducted to solve warfighter problems, including coalition challenges. FY 2015 assessment objectives remain focused on: Cyberspace, Mission Partner Environment, Common Operational Picture, Wireless to the Tactical Edge, Joint Fires Capabilities, Data Strategy Implementation, and Information Sharing Capabilities.</p>				
<p>Title: Technical Assessments and Integration (TA&I)</p> <p>Description: Primary Outcome (objective) for this effort is near-term technical solutions for integration, assessment, and delivery of operational capabilities that address near-term operational and tactical requirements. TA&I use organic laboratory resources, equipment, and technical personnel to integrate emerging technologies.</p> <p>FY 2013 Accomplishments: (1) Continued initiatives investigating technology advances in wireless devices, mesh and ad-hoc networking, satellite modem technology, and small lightweight secure digital capabilities on warfighter command and control capabilities to match emerging</p>		1.080	2.429	2.297

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
<p>critical warfighter requirements with the technologies to identify near-term solutions supporting Combatant Commanders. Areas of concentration included Tactical Edge Integration and Joint Command and Control Capabilities.</p> <p>(2) Celestial Reach Joint Capability Technical Demonstration (JCTD) Assessment – Integrated a wide-band antenna solution for joint air, ground, and maritime operations and assessed the capability’s utility in providing wide-band communications that support Command and Control (C2) and Intelligence Surveillance and Reconnaissance (ISR) applications to enroute users.</p> <p>(3) National Security Agency (NSA) Commercial Solutions for Classified (CSfC) Secure Wireless Local Area Network (SWLAN) Integration Assessment – Assisted NSA in the development and assessment of a Suite B software encryption solution. This capability supported communicating over SECRET wireless networks without using Type-1 hardware solutions (e.g., SecNet 54, Talon, or KG-250s).</p> <p>(4) Air/Event Information Sharing Service (A/EISS) Integration Assessment – Integrated an automated data handling capability that fuses and shares decision support data from national level authoritative sources enabling senior decision makers to make time-critical decisions during air events over North America via desktop or mobile devices.</p> <p>(5) C2 Applications over Broadband Cellular (C2 ABC) Integration and Assessment – Integrated and assessed emerging C2 and tailored applications using broadband cellular technologies to provide the warfighter at the tactical edge with expanded situational awareness.</p> <p>(6) Joint Operational Long Term Evolution Deployable (JOLTED) Tactical Cellular System (TACTICS) Integration Project – JOLTED TACTICS is an Internet Protocol (IP) based system designed to provide robust communications to tactical users. This system leverages innovations in Fourth Generation (4G) LTE Cellular technologies and mobile Ka band spread spectrum satellite communications to deliver megabits of data to mobile and dismounted teams armed with mobile devices such as smartphones or netbooks.</p> <p>(7) Tactical Mobility Security Integration and Assessment (TMSIA) Spiral II – Integrated in partnership with the National Security Agency a security architecture for lightweight, man-portable communications-on-demand packages that allow the user to quickly establish secure 4G cellular wireless networks.</p> <p>FY 2014 Plans:</p> <p>(1) Continue FY 2013 initiatives investigating impacts of technology advances in wireless devices, mesh and ad-hoc networking, satellite modem technology, and small lightweight secure digital capabilities on warfighter command and control capabilities and match emerging critical warfighter requirements with the technologies to identify near-term technology solutions supporting</p>				

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
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<p>Combatant Commanders. Areas of concentration include Wireless to the Tactical Edge Integration, Cyberspace, and Common Operational Picture.</p> <p>(2) Joint Operational Long Term Evolution Deployable (JOLTED) Tactical Cellular System (TACTICS) Joint Capability Technical Demonstration (JCTD) - Technical Manager – JOLTED TACTICS is an Internet Protocol (IP) based system designed to provide robust communications to tactical users. This system leverages innovations in Fourth Generation (4G) LTE Cellular technologies and mobile Ka band spread spectrum satellite communications to deliver megabits of data to mobile and dismounted teams armed with mobile devices such as smartphones or netbooks.</p> <p>(3) C2 Applications over Broadband Cellular (C2 ABC) Integration and Assessment – Integrate and assess emerging C2 and tailored applications using broadband cellular technologies to provide the warfighter at the tactical edge with expanded situational awareness.</p> <p>(4) Celestial Reach Joint Capability Technical Demonstration (JCTD) Assessment – Continue integrating a wide-band antenna solution for joint air, ground, and maritime operations and assessing the capability’s utility in providing wide-band communications that support Command and Control (C2) and Intelligence Surveillance and Reconnaissance (ISR) applications to enroute users.</p> <p>(5) National Security Agency (NSA) Commercial Solutions for Classified (CSfC) Secure Wireless Local Area Network (SWLAN) Integration Assessment – Continue assisting NSA in the development and assessment of a Suite B software encryption solution. This capability supports communicating over SECRET wireless networks without using Type-1 hardware solutions (e.g., SecNet 54, Talon, or KG-250s).</p> <p>(6) Tactical Mobility Security Integration and Assessment (TMSIA) Spiral II – Continue integrating in partnership with the National Security Agency a security architecture for lightweight, man-portable communications-on-demand packages that allow the user to quickly establish secure 4G cellular wireless networks.</p> <p>(7) Broad Band Cellular System Integration (B2CI) – Integrate cellular technologies with mobile Ka band spread spectrum satellite communications to deliver megabits of data to dismounted users equipped with mobile devices such as smartphones or netbooks.</p> <p>FY 2015 Plans: Continue FY 2014 initiatives investigating impacts of technology advances in wireless devices, mesh and ad-hoc networking, satellite modem technology, and small lightweight secure digital capabilities on warfighter command and control capabilities to match emerging critical warfighter requirements with the technologies to identify near-term technology solutions supporting</p>			
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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
Combatant Commanders. Areas of concentration include Wireless to the Tactical Edge Integration and Common Operational Picture.				
<p>Title: Persistent Command and Control Environment</p> <p>Description: The persistent command and control environment provides a reconfigurable Joint Task Force national and coalition laboratory that supports the rapid assessment and integration of existing and emerging C4 capabilities. It is a venue for the Department and allied partners to collaboratively assess capability and interoperability of current and future warfighting systems and when connected with other joint service agencies and coalition laboratories provides a robust and tailorable system of systems assessment and engineering environment.</p> <p>FY 2013 Accomplishments: Continued initiatives by engaging the Services and Communities of Interest (COI) to leverage the capabilities of the Persistent Command and Control Environment by bringing joint solutions through C4AD's integration and operational assessment process. Also continue to expand existing relationships with Service and Coalition laboratory and engineering organizations.</p> <p>Cyber Assessment Event Number 1 – Provided a command and control node within an Enterprise Cyber Range Environment (ECRE) to facilitate replication of Joint C2 events for assessment of C2 system vulnerabilities to red team exploitation and improvement of blue team responses.</p> <p>C4AD Project Engineering Support – Provided infrastructure, communications, network, information assurance, security, and engineering support as required.</p> <p>FY 2014 Plans: (1) Continue FY 2013 initiatives by engaging the Services and Communities of Interest (COI) to leverage the capabilities of the Persistent Command and Control Environment by bringing joint solutions through C4AD's integration and operational assessment process. Provide a comprehensive Joint Task Force (JTF) environment required to also support cyber training, cyber capability development, and cyber assessment by expanding the connectivity and capability of the existing persistent environment to support the Enterprise Cyber Range Environment (ECRE) focused on user requirements, architectures, standards, measures, metrics, instrumentation, and data collection requirements.</p> <p>(2) C4AD Project Engineering Support – Provide infrastructure, communications, network, information assurance, security, and engineering support as required.</p>		0.917	2.079	1.967

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
(3) Cyber Assessment Event Number 1 – Continue providing a representative Joint Task Force (JTF) Headquarters node within the Enterprise Cyber Range Environment (ECRE) to assess C2 system vulnerabilities to red team exploitation and improve blue team responses.			
(4) Cyber Assessment Event Numbers 2-5 – Provide a representative Joint Task Force (JTF) Headquarters node within the Enterprise Cyber Range Environment (ECRE) to assess C2 system vulnerabilities to red team exploitation and improve blue team responses.			
<i>FY 2015 Plans:</i> Continue FY 2014 initiatives by engaging the Services and Communities of Interest (COI) to leverage the capabilities of the Persistent Command and Control Environment by bringing joint solutions through C4AD's integration and operational assessment process. Provide a comprehensive Joint Task Force (JTF) environment required to also support cyber training, cyber capability development, and cyber assessment by expanding the connectivity and capability of the existing persistent environment to support the Enterprise Cyber Range Environment (ECRE) focused on user requirements, architectures, standards, measures, metrics, instrumentation, and data collection requirements.			
Accomplishments/Planned Programs Subtotals	3.230	7.402	7.002

D. Other Program Funding Summary (\$ in Millions)
N/A

Remarks

E. Acquisition Strategy
C4AD supports interoperability of systems selected for acquisition, integration and fielding. C4AD is a forcing function to discover and provide interoperable joint solutions as a means to foster rapid, near-term insertion of command and control and cyber technology by promoting the ability to meet the DoD direction for spiral development and evolutionary acquisition. Services and Defense Agencies are responsible for conducting acquisition activities in Programs of Record (POR).

F. Performance Metrics
FY 2013 Strategic Goals Supported: Chairman’s Priorities to “Achieve our National Objectives in our Current Conflicts and Develop Joint Force 2020”:

- (1) Drove resolution of C4 interoperability problems with actionable recommendations stemming from technical and operational assessments of existing and emerging C4 capabilities.
- (2) Integrated and assessed technical solutions that provide gap-filling capabilities to satisfy near-term operational requirements.
- (3) Replicated an operational Joint Task Force Headquarters Environment to support interoperability, cybersecurity, and integration assessments.
- (4) Achieved planned body of work in support of the Chairman’s priorities in a fiscally constrained environment.

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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	6.541	7.506	7.102	-	7.102	6.963	7.107	7.218	7.218	Continuing	Continuing
P857: <i>Joint Deployable Analysis Team (JDAT)</i>	0.000	6.541	7.506	7.102	-	7.102	6.963	7.107	7.218	7.218	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

The Joint Deployable Analysis Team (JDAT) mission is to employ scientific methods to research, investigate, test, assess, and evaluate current and emergent Joint command and control (C2) information systems, and associated procedures. These activities measure capabilities and limitations, identify shortfalls and root cause, recommend and verify solutions, and validate joint capabilities. The resultant empirical outcomes influence Joint Capability development in areas such as: Policy, Joint Doctrine, Tactics, Techniques and Procedures (TTP), and integration and interoperability of capabilities. JDAT provides decision-quality data and cogent solutions to customers and stakeholders responsible for improving Joint C2 information systems integration and interoperability, informing acquisition decisions, and ensuring that Services and Agencies field integrated and interoperable systems.

The emphasis of JDAT efforts is the analysis of C2 information systems and supporting procedures to provide Services and Agencies findings and recommendations based on quantifiable data to improve Joint C2 integration and interoperability. Evaluations range from small, single-focus events to large, multi-event/venue exercises.

B. Program Change Summary (\$ in Millions)

	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015 Base</u>	<u>FY 2015 OCO</u>	<u>FY 2015 Total</u>
Previous President's Budget	7.364	7.506	7.109	-	7.109
Current President's Budget	6.541	7.506	7.102	-	7.102
Total Adjustments	-0.823	-	-0.007	-	-0.007
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Change	-0.823	-	-0.007	-	-0.007

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Change Summary Explanation

Program Element 0604828J, Joint Fires Integration and Interoperability transferred from OUSD (AT&L) to the Joint Staff in FY 2013. FY 2013 was the first year this PE belonged to the Joint Staff.

Funding decreased from FY 2014 - FY 2015 to match TJS Directorates' mission priorities with planned topline budget reductions.

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

	FY 2013	FY 2014	FY 2015
<p>Title: Joint Deployable Analysis Team (JDAT)</p> <p>Description: JDAT conducts assessments in conjunction with Service and Combatant Command (CCMD) exercises, experiments, and test and evaluation events.</p> <p>The primary outputs and efficiencies of JDAT include:</p> <ol style="list-style-type: none"> (1) Improvement in the Services' ability to employ Joint C2 information systems. (2) Recommendations for C2 system integration and interoperability. (3) Ability to define appropriate Joint context during system acquisition or development. (4) Updates/revisions to C2-related Chairman, Joint Chief Staff (CJCS) Instructions and Manuals. (5) Development of related Universal Joint Tasks (UJT) and Additional Task Detail (ATD). (6) Updates and revisions to doctrine, TTP, and Joint publications. (7) Development/refinement of analytical tools (i.e. Data Collection Architecture for Analytical Feedback (DCAAF), Track Event Reconstruction Application (TERA), and Joint Windows-based Warfare Assessment Model (JWinWAM)). (8) Recommended solutions integrated within the Joint Requirements Oversight Council (JROC) Joint Capabilities Integration and Development System (JCIDS). (9) Identification of specific Key Performance Parameters (KPPs) and Key System Attributes (KSAs) for new systems that meet Joint warfighter operational requirements to ensure Services and Agencies field interdependent and interoperable systems. (10) Increased effectiveness/confidence in combat identification processes and reduction in fratricide. (11) Increased effectiveness and confidence in C2 information systems and associated procedures. <p>FY 2013 Accomplishments:</p> <ol style="list-style-type: none"> (1) Provided analytical support to a Military Utility Assessment of coalition and U.S. C2 information systems and procedures at Bold Quest 13. Provided instrumentation, data collection, data capture, real-time mission monitoring, and feedback to participants via daily debriefings. Benefits included improved ability to assess various participating coalition and U.S. systems, improved joint task execution, and effective Military Utility Assessment of U.S. C2 information systems, while greatly reducing the timeline required to provide fact-based recommendations. 	6.541	7.506	7.102

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
<p>(2) Assisted Commander, Operational Test and Evaluation Force (COMOPTEVFOR) with Identification Friend or Foe (IFF) Mode 5 Level 1 Joint Operational Test Approach (JOTA) analysis to validate integration and interoperability of fielded systems. Developed data collection and analysis methodologies, designed and implemented data collection architectures, and conducted analysis requisite to meet JOTA objectives. Determined any gaps or shortfalls in integration and interoperability of Mode 5 systems. Provided Service Operational Test Agencies and Program Managers with fact-based findings.</p> <p>(3) Provided analytical support to assess technology integration and interoperability during Joint Integrated Air & Missile Defense Organization (JIAMDO) Joint Tactical Air Picture assessment event. Provided data collection, analysis, and display using JDAT developed tools. Benefits included improvements in a Joint Common Operational Picture to battlespace managers.</p> <p>(4) Led analytical efforts for the DOT&E-directed and Joint Staff J6-supported Enterprise Cyberspace Range Environment Event 1, phase I, and II demonstrations. Developed assessment plans, provided demonstration leadership/exercise control, coordinated and synchronized activities of JS J6, JS J7, USA Threat Systems Management Office, DoD Test Resource Management Center's National Cyberspace Range, John Hopkins University/Applied Physics Laboratory and USA Test and Evaluation Command, provided observations and recommendations for improving the integration of tools, processes, and environments allowing quantifiable measurements of cyberspace detection and prevention tools, cyberspace effects on CCMD C4I mission capabilities, and the effectiveness of CCMD cyberspace response actions in operationally realistic environments.</p> <p>(5) Provided an objective, third-party assessment of the 4G LTE capability, known as Joint Operational Long Term Evolution Deployable (JOLTED) Tactical Cellular system (TACTICS) for USSOCOM (JCTD Operational Manager), including test planning, data collection, test control, and reporting.</p> <p>(6) Assessed the performance of the Personnel Recovery Single Card Solution (SCS) handheld radio during a proof-of-concept for the Joint Personnel Recovery Agency, Joint Staff J3, which included test planning, data collection, test control, and reporting.</p> <p>(7) Provided C2 data collection and analytical support to the Joint Fires Support Executive Steering Committee, Lead Engineering Change Implementation Group. Conducted Digitally Aided Close Air Support (DACAS) coordinated implementation risk reduction assessments to validate service compliance with requisite engineering change proposals. Benefits included recommendations for Tactics, Techniques, and Procedures in the areas of standardization and digital interoperability and development of associated Universal Joint Tasks.</p> <p>(8) Chaired the Joint Close Air Support Executive Steering Committee (JCAS ESC) chartered Digitally Aided Close Air Support (DACAS) Engineering Change Implementation Group. Planned and executed testing and validation of DACAS engineering change proposals and coordinated implementation across the DoD and partner nations.</p>			

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
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(9) Updated Joint Windows-based Warfare Assessment Model (JWinWAM), Data Collection Architecture for Analytical Feedback (DCAAF), and Multi-Interface Gateway (MIG) software development to support JDAT assessment activities and the efforts of other government agencies as directed.

(10) Defined Universal Joint Task (UJT) Additional Task Detail (ATD) for tactical task TA 3.3.2 Control Tactical Airspace and refined ATD for TA 3.2.2 Conduct Close Air Support (CAS), and TA 3.2.1 Conduct Joint Fires.

(11) Provided subject matter expertise and tier 2 architecture products on development and assessment of the Joint Close Air Support (CAS) Joint Mission Thread (JMT), and Joint Fires JMT.

FY 2014 Plans:

(1) Continue providing analytical support to a demonstration of U.S./Coalition C2 information systems and procedures at JS J6 Bold Quest 14. Provide instrumentation, data collection, data management, real-time mission monitoring, and feedback to participants via daily debriefings. Benefits will include improved ability to assess various participating coalition and U.S. systems, improved joint task execution, and an effective demonstration of U.S./Coalition C2 information systems.

(2) Provide analytical support to assess DoD, Inter-Agency, and Industry's counter-unmanned aircraft systems (C-UAS) capabilities across the Integrated Air and Missile Defense (IAMD) joint engagement sequence during JS J8 Joint Integrated Air and Missile Defense Organization (JIAMDO) Black Dart 2014 demonstration. Provide data collection, analysis, display, and feedback using JDAT developed tools. Benefits will include improvements to surveillance, detection, tracking, identification, and engagement of counter-unmanned aircraft systems.

(3) Team with U.S. Army Test and Evaluation Command to conduct the Director of Operational Test & Evaluation's (DOT&E) information assurance (cyberspace) assessment for USNORTHCOM during Exercise Vigilant Shield 2014. Provide C2 information system data collection and analysis using JDAT developed tools and correlate with red team network penetrations and actions using USA Threat Systems Management Office developed tools. Benefits will include improvements in CCMDs joint cyber center defensive cyberspace operations through improved situational awareness and understanding the impact on procedures supporting the commander's decision cycle.

(4) Team with USAF Operational Test and Evaluation Center to conduct DOT&E interoperability and information assurance (cyberspace) assessments for USSTRATCOM during Exercise Global Thunder 2014. Provide C2 information system data collection and analysis using JDAT developed tools and correlate with red team network penetrations and actions using USA Threat Systems Management Office developed tools. Benefits will include improvements in combatant command's joint cyber

FY 2013	FY 2014	FY 2015

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff	Date: March 2014
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604828J / <i>Joint FIRES Integration and Interoperability Team</i>
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
<p>center defensive cyberspace operations through improved situational awareness and understanding the impact on procedures supporting the commander’s decision cycle.</p> <p>(5) Continue teaming with DOT&E for FY 2014 CCMD's interoperability assessments. Provide data collection, analysis and display using JDAT developed tools. Benefits will include improvements in U.S. and Coalition C2 information systems interoperability, processes, and procedures in support of the commander’s decision cycle.</p> <p>(6) Continue providing analytical support to the Joint Personnel Recovery Agency by assessing selected engineering change proposals, identifying interoperability shortfalls, and recommending solutions. Benefits include an end-to-end digitized joint personnel recovery process.</p> <p>(7) Provide C2 information and weapon systems data collection and feedback/reporting support to OSD CAPE for the VCJCS initiative on leveraging real-world operations to identify current deficiencies and opportunities for improving Joint Integrated Air and Missile Defense interoperability and effectiveness.</p> <p>(8) Continue providing C2 data collection and analytical support to the Joint Fires Support Executive Steering Committee. Chair the Engineering Change Implementation Group. Conduct Digitally Aided Fires (DACAS and Fires) Coordinated Implementation risk reduction assessments to validate service compliance with requisite Engineering Change Proposals (ECPs). Plan and execute testing and validation of ECPs and coordinate implementation across the DoD and partner nations. Benefits will include recommendations in the areas of interoperability, standardization, and development of associated Universal Joint Tasks, and TTP.</p> <p>(9) Continue to update JWinWAM, DCAAF, MIG, and TERA analysis software to support DOD-wide test and evaluation through the Joint Mission Essential Task List (JMETC) program.</p> <p>(10) Continue to define UJT ATD for tactical task (TA) 3.3.2 Control Tactical Airspace and refine ATD for TA 3.2.2 Conduct CAS and TA 3.2.1 Conduct Joint Fires.</p> <p>(11) Continue to provide subject matter expertise and architecture products on development of the Joint CAS JMT and Joint Fires JMT.</p> <p>(12) Partner with JS J8, JS J7, and other agencies to address persistent integrated air and missile defense interoperability issues.</p> <p>FY 2015 Plans:</p>			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff	Date: March 2014
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604828J / <i>Joint FIRES Integration and Interoperability Team</i>
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
<p>(1) Continue providing analytical support to a demonstration of U.S./Coalition C2 information systems and procedures at JS J6 Bold Quest 15. Provide instrumentation, data collection, data management, real-time mission monitoring, and feedback to participants via daily debriefings. Benefits will include improved ability to assess various participating coalition and U.S. systems, improved joint task execution, and an effective demonstration of U.S./Coalition C2 information systems.</p> <p>(2) Analytical support to assess DoD, Inter-Agency, and Industry's counter-unmanned aircraft systems (C-UAS) capabilities across the IAMD joint engagement sequence during JS J8 Joint Integrated Air and Missile Defense Organization (JIAMDO) Black Dart 2015 demonstration. Provide data collection, analysis, display, and feedback using JDAT developed tools. Benefits will include improvements to surveillance, detection, tracking, identification, and engagement of counter-unmanned aircraft systems.</p> <p>(3) Team with USN Operational Test and Evaluation Force to conduct DOT&E information assurance (cyberspace) assessments for USPACOM during Exercise Terminal Fury 2015. Provide C2 information system data collection and analysis using JDAT developed tools and correlate with red team network penetrations and actions using USA Threat Systems Management Office developed tools. Benefits will include improvements in CCMDs joint cyber center defensive cyberspace operations through improved situational awareness and understanding the impact on procedures supporting the commander's decision cycle.</p> <p>(4) Continue teaming with DOT&E for FY 2015 CCMD's interoperability assessments. Provide data collection, analysis, and display using JDAT developed tools. Benefits will include improvements in U.S. and Coalition C2 information systems interoperability, processes, and procedures in support of the commander's decision cycle.</p> <p>(5) Continue providing analytical support to the Joint Personnel Recovery Agency by assessing selected engineering change proposals, identifying interoperability shortfalls, and recommending solutions. Benefits include an end-to-end digitized Joint personnel recovery process.</p> <p>(6) Continue providing C2 information and weapon systems data collection and feedback/reporting support to OSD CAPE for the VCJCS initiative on leveraging real-world operations to identify current deficiencies and opportunities for improving Joint Integrated Air and Missile Defense interoperability and effectiveness.</p> <p>(7) Continue providing C2 data collection and analytical support to the Joint Fires Support ESC. Chair the Engineering Change Implementation Group. Conduct Digitally Aided Fires (DACAS and Fires) Coordinated Implementation risk reduction assessments to validate service compliance with requisite ECPs. Plan and execute testing and validation of ECPs and coordinate implementation across the DoD and partner nations. Benefits will include recommendations in the areas of interoperability, standardization, and development of associated Universal Joint Tasks and TTP.</p>			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff	Date: March 2014
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604828J <i>I Joint FIRES Integration and Interoperability Team</i>
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
(8) Continue to update JWinWAM, DCAAF, MIG, and TERA analysis software to support DOD-wide test and evaluation through the JMETC program.			
(9) Continue to define UJT ATD for tactical task (TA) 3.3.2 Control Tactical Airspace and refine ATD for TA 3.2.2 Conduct CAS and TA 3.2.1 Conduct Joint Fires.			
(10) Continue to provide subject matter expertise and architecture products on development of the Joint CAS JMT and Joint Fires JMT.			
(11) Partner with JS J8, JS J7, and other agencies to address persistent integrated air and missile defense interoperability issues.			
Accomplishments/Planned Programs Subtotals	6.541	7.506	7.102

D. Other Program Funding Summary (\$ in Millions)
N/A

Remarks

E. Acquisition Strategy
Not applicable for this item.

F. Performance Metrics
JDAT delivers joint solutions for operational and tactical forces deployed to Combatant Commands (CCMDs) and Joint and Service Program managers. Deliverables may include: discrete improvements to training processes, doctrine; Tactics, Techniques, & Procedures (TTPs), and/or technical system performance specifications and standards, validated Doctrine, Organization, Training, Material, Leadership, Personnel, Facilities, and Policy (DOTmLPF-P) recommendations, timely delivery of quality feedback to exercise participants, and developers for systems under test or improvements to joint context of testing and training venues. JDAT works with Joint Staff, CCMDs, and Services to approve the annual agenda of work and validate results.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605126J <i>I Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	150.938	63.151	42.772	43.176	-	43.176	35.671	28.164	28.003	30.425	Continuing	Continuing
P001: <i>Core</i>	33.781	26.175	19.414	20.178	-	20.178	15.871	9.434	9.765	10.725	Continuing	Continuing
P002: <i>Homeland</i>	39.347	14.957	-	-	-	-	-	-	-	-	Continuing	Continuing
P003: <i>Black Dart</i>	8.833	4.111	3.107	3.200	-	3.200	2.444	3.000	3.000	3.300	Continuing	Continuing
P004: <i>Joint Distributed Engineering Plant</i>	13.712	-	2.924	3.000	-	3.000	3.000	2.500	2.738	2.900	Continuing	Continuing
P005: <i>Nimble Fire</i>	25.032	10.300	9.656	9.400	-	9.400	8.000	7.230	7.000	7.500	Continuing	Continuing
P006: <i>Cruise Missile Combat Identification (CID)</i>	30.233	7.608	7.671	7.398	-	7.398	6.356	6.000	5.500	6.000	Continuing	Continuing

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

A. Mission Description and Budget Item Justification

The Joint Integrated Air and Missile Defense Organization (JIAMDO) is the organization within the Department of Defense (DoD) chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, and operational architectures. As part of the CJCS staff, JIAMDO supports the Chairman in meeting his Title 10 responsibilities as they relate to air and missile defense issues. JIAMDO serves as the operational community's proponent for characteristics, requirements, and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the DoD's resource allocation structures. JIAMDO also leads AMD mission area and utility analyses, integrates air and missile defense within the Force Protection joint capability area, and conducts evaluations and demonstrations of joint air and missile defense architectures and concepts.

JIAMDO has established a close partnership with Combatant Commands (CCMDs) and maintains liaison offices at all major CCMD locations to facilitate coordination of integration issues and requirements. In particular, JIAMDO maintains close coordination with US Strategic Command (USSTRATCOM) in support of ballistic missile defense of the U.S. It provides the CJCS and the Joint Requirements Oversight Council (JROC) the ability to meet statutory responsibilities to review the cost, schedule, and performance criteria of Missile Defense Agency (MDA) missile defense programs, and assesses the validity of those criteria in relation to national and military requirements. At the request of USSTRATCOM, and at the direction of the CJCS, JIAMDO supports USSTRATCOM in the conduct of Military Utility Assessments and analysis of the Ballistic Missile Defense System (BMDS). JIAMDO supports the USSTRATCOM mission by ensuring operational and technical requirements are integrated into the theater missile warning architecture. JIAMDO represents the Joint Staff in work on the AMD Capabilities Based Assessment Joint Service Team. JIAMDO also provides direct support to US Northern Command (USNORTHCOM) for homeland air surveillance issues.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff	Date: March 2014
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605126J <i>I Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>
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B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	55.902	42.772	48.176	-	48.176
Current President's Budget	63.151	42.772	43.176	-	43.176
Total Adjustments	7.249	-	-5.000	-	-5.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Change	7.249	-	-5.000	-	-5.000

Change Summary Explanation

JIAMDO-Core: The Joint Staff plans to reduce dependence upon contracted advisory and assistance service efforts and increase leverage upon organic (military and federal civilian) labor.

JIAMDO-Homeland: Programs will be near development completion and conducting Military Utility Assessment, which requires live assets and integration development.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605126J / <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	Project (Number/Name) P001 / <i>Core</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
P001: <i>Core</i>	33.781	26.175	19.414	20.178	-	20.178	15.871	9.434	9.765	10.725	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

The Joint Integrated Air and Missile Defense Organization (JIAMDO) is the organization within the Department of Defense (DoD) chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, and operational architectures. As part of the CJCS staff, JIAMDO supports the Chairman in meeting his Title 10 responsibilities as they relate to air and missile defense issues. JIAMDO serves as the operational community's proponent for characteristics, requirements, and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the DoD's resource allocation structures. JIAMDO also leads AMD mission area and utility analyses, integrates air and missile defense within the Force Protection joint capability area, and conducts evaluations and demonstrations of joint air and missile defense architectures and concepts.

JIAMDO has established a close partnership with Combatant Commands (CCMDs) and maintains liaison offices at all major CCMD locations to facilitate coordination of integration issues and requirements. In particular, JIAMDO maintains close coordination with US Strategic Command (USSTRATCOM) in support of ballistic missile defense of the U.S. It provides the Chairman, JCS and the Joint Requirements Oversight Council (JROC) the ability to meet statutory responsibilities to review the cost, schedule and performance criteria of Missile Defense Agency (MDA) missile defense programs, and assesses the validity of those criteria in relation to national and military requirements. At the request of USSTRATCOM, and at the direction of the CJCS, JIAMDO supports USSTRATCOM in the conduct of Military Utility Assessments and analysis of the Ballistic Missile Defense System (BMDS). JIAMDO supports the USSTRATCOM mission by ensuring operational and technical requirements are integrated into the theater missile warning architecture. JIAMDO represents the Joint Staff in work on the AMD Capabilities Based Assessment Joint Service Team. JIAMDO also provides direct support to U.S. Northern Command (USNORTHCOM) for homeland air surveillance issues.

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

Title: Core	FY 2013	FY 2014	FY 2015
Description: Provides overall staff support for JIAMDO operations in the area of ballistic missile defense, air and cruise missile defense, and homeland defense. This includes performing analyses, demonstrations, and programmatic assessments of technology, operations, requirements, and weapons systems. In coordination with Services and COCOMs, JIAMDO Core also leads the definition, assessment, development, and approval of Joint AMD Operational Concepts, Operational Architectures, and capability requirements to guide the Department's joint/interagency/combined fully integrated and net-centric capable air defense (including defense against cruise missiles, unmanned aerial vehicles, and ballistic missiles). JIAMDO Core also:	26.175	19.414	20.178
<ul style="list-style-type: none"> • Develops and integrates joint exercises, simulations, war-games, force resource allocations, and interoperability initiatives • Manages relevant Congressional interaction and CCMD interface through a cadre of liaisons collocated with major headquarters • Directly supports and sponsors homeland air surveillance related demonstration and analysis activities 			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff		Date: March 2014		
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605126J / <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	Project (Number/Name) P001 / <i>Core</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
<ul style="list-style-type: none"> • Runs the AMD Working Group focusing COCOM, Joint Staff, and Service collaboration efforts in the generation of joint concepts and development of the integrated AMD architecture and roadmap • Develops US positions for, and serves as the US representative to the NATO Air Defense Committee <p>JIAMDO Core also enables strategic planning development, infrastructure, security, travel, administrative and other support activities. Funding pays for: Contractor Systems Engineering and Technical Assistance (SETA) support for Air & Cruise Missile Defense (ACMD), Ballistic Missile Defense (BMD), Homeland Air Security (HAS) strategic planning, senior level briefings and JIAMDO white papers, leased office space including all upkeep services, all travel costs for government and contractor support personnel, including support for Combatant Commander liaison personnel travel, multiple levels of security including lease support for a Joint Worldwide Intelligence Communications System (JWICS) communications line, and Special Compartmented Information (SCI) terminals (due to the classified nature and the diverse content of work in the JIAMDO portfolio), 24-hour physical security force and alarm monitoring and maintenance, daily on-site security personnel to meet DOD, National Industrial Security Program Operating Manual (NISPOM), and other security regulations, for all administrative and support functions, all associated Information Technology (IT) support, copier purchase and maintenance, as well as basic office supplies and furniture, telephones, telephone lines, classified telephones, and classified/unclassified data connections.</p> <p>FY 2013 Accomplishments: Performed Ballistic Missile Defense directed studies and program support activities including: contracting, finance, systems engineering and technical assistance, administration, security, communications, leased space and supply. Program reduced dependence on contracted advisory and assistance services, and leveraged organic (military and federal civilian) labor to achieve planned mission.</p> <p>FY 2014 Plans: Perform Ballistic Missile Defense directed studies and program support activities including: contracting, finance, systems engineering and technical assistance, administration, security, communications, leased space and supply. Program will reduce dependence on contracted advisory and assistance services, and intends to leverage organic (military and federal civilian) labor to achieve planned mission.</p> <p>FY 2015 Plans: Perform Ballistic Missile Defense directed studies and program support activities including: contracting, finance, systems engineering and technical assistance, administration, security, communications, leased space and supply. Program will reduce dependence on contracted advisory and assistance services, and intends to leverage organic (military and federal civilian) labor to achieve planned mission.</p>				
Accomplishments/Planned Programs Subtotals		26.175	19.414	20.178

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff		Date: March 2014
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605126J / <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	Project (Number/Name) P001 / <i>Core</i>

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not required for Budget Activities 1, 2, 3 and 6.

E. Performance Metrics

- (1) Conduct two Protection Functional Capability Boards per month.
- (2) Conduct two Air and Missile Defense Working Groups per month.
- (3) Conduct quarterly Change Control Boards.
- (4) Support U.S. Representative to NATO Air Defense Council (NADC) to include 2 overseas NADC meetings per year.
- (5) Develop and maintain electronic library of current Joint and Service AMD Publications.
- (6) Develop and maintain operational architecture compliance with DoD Architectural Framework (DODAF) standards.
- (7) Ensure 100% of all government employee travel is in accordance with the Joint Federal Travel Regulation/Joint Travel Regulation.
- (8) Maintain all unclassified/classified LANs on a daily basis in accordance with TJS Office of the Chief Information Officer guidance/policy.
- (9) Ensure all computers, NIPRNET/SIPRNET, are refreshed according to OCIO policy/guidance.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605126J / Joint Integrated Air & Missile Defense Organization (JIAMDO)	Project (Number/Name) P002 / Homeland
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
P002: <i>Homeland</i>	39.347	14.957	-	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

The Joint Integrated Air and Missile Defense Organization (JIAMDO) is the organization within the Department of Defense (DoD) chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, and operational architectures. As part of the CJCS staff, JIAMDO supports the Chairman in meeting his Title 10 responsibilities as they relate to air and missile defense issues. JIAMDO serves as the operational community's proponent for characteristics, requirements, and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the DoD's resource allocation structures. JIAMDO also leads AMD mission area and utility analyses, integrates air and missile defense within the Force Protection joint capability area, and conducts evaluations and demonstrations of joint air and missile defense architectures and concepts.

JIAMDO has established a close partnership with Combatant Commands (CCMDs) and maintains liaison offices at all major CCMD locations to facilitate coordination of integration issues and requirements. In particular, JIAMDO maintains close coordination with US Strategic Command (USSTRATCOM) in support of ballistic missile defense of the U.S. It provides the Chairman, JCS and the Joint Requirements Oversight Council (JROC) the ability to meet statutory responsibilities to review the cost, schedule, and performance criteria of Missile Defense Agency (MDA) missile defense programs, and assesses the validity of those criteria in relation to national and military requirements. At the request of USSTRATCOM, and at the direction of the CJCS, JIAMDO supports USSTRATCOM in the conduct of Military Utility Assessments and analysis of the Ballistic Missile Defense System (BMDS). JIAMDO supports the USSTRATCOM mission by ensuring operational and technical requirements are integrated into the theater missile warning architecture. JIAMDO represents the Joint Staff in work on the AMD Capabilities Based Assessment Joint Service Team. JIAMDO also provides direct support to US Northern Command (USNORTHCOM) for homeland air surveillance issues.

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

	FY 2013	FY 2014	FY 2015
Title: Homeland	14.957	-	-
Description: Develop Homeland Surveillance technologies to enable Joint Integrated Air and Missile Defense.			
FY 2013 Accomplishments: Perform technology development efforts. Specific details of this project are classified.			
Accomplishments/Planned Programs Subtotals	14.957	-	-

C. Other Program Funding Summary (\$ in Millions)

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff		Date: March 2014
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605126J / Joint Integrated Air & Missile Defense Organization (JIAMDO)	Project (Number/Name) P002 / Homeland

C. Other Program Funding Summary (\$ in Millions)

Remarks

D. Acquisition Strategy

Not required for Budget Activities 1, 2, 3 and 6.

E. Performance Metrics

Details of this project are classified.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605126J / <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	Project (Number/Name) P003 / <i>Black Dart</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
P003: <i>Black Dart</i>	8.833	4.111	3.107	3.200	-	3.200	2.444	3.000	3.000	3.300	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

The Joint Integrated Air and Missile Defense Organization (JIAMDO) is the organization within the Department of Defense (DoD) chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, and operational architectures. As part of the CJCS staff, JIAMDO supports the Chairman in meeting his Title 10 responsibilities as they relate to air and missile defense issues. JIAMDO serves as the operational community's proponent for characteristics, requirements, and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the DoD's resource allocation structures. JIAMDO also leads AMD mission area and utility analyses, integrates air and missile defense within the Force Protection joint capability area, and conducts evaluations and demonstrations of joint air and missile defense architectures and concepts.

JIAMDO has established a close partnership with Combatant Commands (CCMDs) and maintains liaison offices at all major CCMD locations to facilitate coordination of integration issues and requirements. In particular, JIAMDO maintains close coordination with US Strategic Command (USSTRATCOM) in support of ballistic missile defense of the US. It provides the Chairman, JCS and the Joint Requirements Oversight Council (JROC) the ability to meet statutory responsibilities to review the cost, schedule, and performance criteria of Missile Defense Agency (MDA) missile defense programs, and assesses the validity of those criteria in relation to national and military requirements. At the request of USSTRATCOM, and at the direction of the CJCS, JIAMDO supports USSTRATCOM in the conduct of Military Utility Assessments and analysis of the Ballistic Missile Defense System (BMDS). JIAMDO supports the USSTRATCOM mission by ensuring operational and technical requirements are integrated into the theater missile warning architecture. JIAMDO represents the Joint Staff in work on the AMD Capabilities Based Assessment Joint Service Team. JIAMDO also provides direct support to US Northern Command (USNORTHCOM) for homeland air surveillance issues.

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

	FY 2013	FY 2014	FY 2015
Title: JIAMDO Black Dart	4.111	3.107	3.200
Description: Provides funding to support administration and execution of Black Dart demonstrations. Black Dart is a unique joint, interagency demonstration focusing on rapid development and implementation of Counter - Unmanned Aircraft Systems (CUAS) technology from readily-available commercial and governmental products.			
FY 2013 Accomplishments: Developed kinetic and non-kinetic solutions to the UAS threat set. Provided analysis and coordination with the OSD JT&E Counter-UAS interagency, and incorporated Defense Advanced Research Projects Agency (DARPA) to further expand Black Dart scope.			
FY 2014 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff		Date: March 2014
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605126J / <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	Project (Number/Name) P003 / <i>Black Dart</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Continue to develop innovative material and non-material solutions that enhance all phases of the Joint Engagement Sequence versus the UAS threat. Refine kinetic and non-kinetic negation systems and capabilities. Develop detailed threat scenarios based on direct input from CCMDs to provide specific recommendations on material and non-material solutions to warfighter requirements. Expand interagency participation to demonstrate C-UAS options in both Title 10 and Title 50 operational environments. FY 2015 Plans: Continue to increase fidelity of threat representations' size & performance. Continue to expand US DoD and Inter-agency system portfolio participation.			
Accomplishments/Planned Programs Subtotals	4.111	3.107	3.200

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not required for Budget Activities 1, 2, 3 and 6.

E. Performance Metrics

- (1) Complete events within schedule and budget. Events provide useful data to improve C-UAS capability.
- (2) Document gaps, develop and substantiate hardware, software, and employment concepts.
- (3) Field C-UAS capability.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff										Date: March 2014		
Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0605126J / Joint Integrated Air & Missile Defense Organization (JIAMDO)				Project (Number/Name) P004 / Joint Distributed Engineering Plant			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
P004: Joint Distributed Engineering Plant	13.712	-	2.924	3.000	-	3.000	3.000	2.500	2.738	2.900	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

The Joint Integrated Air and Missile Defense Organization (JIAMDO) is the organization within the Department of Defense (DOD) chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, and operational architectures. As part of the CJCS staff, JIAMDO supports the Chairman in meeting his Title 10 responsibilities as they relate to air and missile defense issues. JIAMDO serves as the operational community's proponent for characteristics, requirements, and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the DoD's resource allocation structures. JIAMDO also leads AMD mission area and utility analyses, integrates air and missile defense within the Force Protection joint capability area, and conducts evaluations and demonstrations of joint air and missile defense architectures and concepts.

JIAMDO has established a close partnership with Combatant Commands (CCMD) and maintains liaison offices at all major CCMD locations to facilitate coordination of integration issues and requirements. In particular, JIAMDO maintains close coordination with US Strategic Command (USSTRATCOM) in support of ballistic missile defense of the US. It provides the Chairman, JCS and the Joint Requirements Oversight Council (JROC) the ability to meet statutory responsibilities to review the cost, schedule, and performance criteria of Missile Defense Agency (MDA) missile defense programs, and assesses the validity of those criteria in relation to national and military requirements. At the request of USSTRATCOM, and at the direction of the CJCS, JIAMDO supports USSTRATCOM in the conduct of Military Utility Assessments and analysis of the Ballistic Missile Defense System (BMDS). JIAMDO supports the USSTRATCOM mission by ensuring operational and technical requirements are integrated into the theater missile warning architecture. JIAMDO represents the Joint Staff in work on the AMD Capabilities Based Assessment Joint Service Team. JIAMDO also provides direct support to US Northern Command (USNORTHCOM) for homeland air surveillance issues and for capabilities development and validation in support of the Unified Command Plan (UCP) assigned missions.

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

	FY 2013	FY 2014	FY 2015
Title: Joint Distributed Engineering Plant (JDEP)	-	2.924	3.000
Description: Conducted a joint test event to assess the interoperability of joint, integrated air and missile defense weapon systems that leveraged COTS Networks to perform Joint Integrated Fire Control. This effort provided users the means to create family of system (FoS) environments by linking existing capabilities using hardware, software, and operators in a live-fly environment.			
FY 2014 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff		Date: March 2014
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605126J / <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	Project (Number/Name) P004 / <i>Joint Distributed Engineering Plant</i>

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
<p>Fund an appropriate joint distributed test event to assess the interoperability of joint, integrated air and missile defense weapons systems. Provide users the means to create FoS environments by linking existing capabilities using hardware, software, and operator-in-the-loop. Link existing Service and Joint combat system engineering and test sites via distributed communications. Reduce developmental cycle times by leveraging existing facilities.</p> <p>FY 2015 Plans: Fund an appropriate joint distributed test event to assess the interoperability of joint, integrated air and missile defense weapons systems. Provide users the means to create FoS environments by linking existing capabilities using hardware, software, and operator-in-the-loop. Link existing Service and Joint combat system engineering and test sites via distributed communications. Reduce developmental cycle times by leveraging existing facilities.</p>			
Accomplishments/Planned Programs Subtotals	-	2.924	3.000

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not required for Budget Activities 1, 2, 3 and 6.

E. Performance Metrics

- (1) Each JDEP event develops measures of effectiveness (MOE) & measures of performance (MOP) based on a eighteen month test planning and event process.
- (2) Complete events within schedule and budget.
- (3) Events provide useful data to improve AMD interoperability, with implemented corrective changes.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605126J / <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	Project (Number/Name) P005 / <i>Nimble Fire</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
P005: <i>Nimble Fire</i>	25.032	10.300	9.656	9.400	-	9.400	8.000	7.230	7.000	7.500	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

The Joint Integrated Air and Missile Defense Organization (JIAMDO) is the organization within the Department of Defense (DoD) chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, and operational architectures. As part of the CJCS staff, JIAMDO supports the Chairman in meeting his Title 10 responsibilities as they relate to air and missile defense issues. JIAMDO serves as the operational community's proponent for characteristics, requirements, and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the DoD's resource allocation structures. JIAMDO also leads AMD mission area and utility analyses, integrates air and missile defense within the Force Protection joint capability area, and conducts evaluations and demonstrations of joint air and missile defense architectures and concepts.

JIAMDO has established a close partnership with Combatant Commands (CCMDs) and maintains liaison offices at all major CCMD locations to facilitate coordination of integration issues and requirements. In particular, JIAMDO maintains close coordination with US Strategic Command (USSTRATCOM) in support of ballistic missile defense of the US. It provides the Chairman, JCS and the Joint Requirements Oversight Council (JROC) the ability to meet statutory responsibilities to review the cost, schedule, and performance criteria of Missile Defense Agency (MDA) missile defense programs, and assesses the validity of those criteria in relation to national and military requirements. At the request of USSTRATCOM, and at the direction of the CJCS, JIAMDO supports USSTRATCOM in the conduct of Military Utility Assessments and analysis of the Ballistic Missile Defense System (BMDS). JIAMDO supports the USSTRATCOM mission by ensuring operational and technical requirements are integrated into the theater missile warning architecture. JIAMDO represents the Joint Staff in work on the AMD Capabilities Based Assessment Joint Service Team. JIAMDO also provides direct support to US Northern Command (USNORTHCOM) for homeland air surveillance issues.

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

Title: JIAMDO Nimble Fire	FY 2013	FY 2014	FY 2015
Description: The Department's only joint integrated air and missile defense operator-in-the-loop simulation that is comprised of current and future land, sea, and air weapon systems representing each of the Services AMD capabilities. Enhances air and missile defense capability through the exploration of joint concepts and capabilities using current and future IAMD systems exercised by highly experienced operators against an integrated threat and providing quantifiable data that supports senior leadership within the Department of Defense, Combatant Commanders, and the Services.	10.300	9.656	9.400
FY 2013 Accomplishments: The environment executed five events in direct support of USMC, USAF, USN, Fleet Forces Command, and Pacific Command. A sixth event was cancelled ten days prior to execution due to travel restrictions. Service events are used to support acquisition			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff	Date: March 2014
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Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605126J / <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	Project (Number/Name) P005 / <i>Nimble Fire</i>
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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
<p>decisions, develop and refine requirements, and develop tactics, techniques and procedures. The Fleet Forces Command event supported Naval Integrated Fire Control Counter-Air (NIFC-CA) platform wholeness and warfighting CONOPS. The PACOM event supported Integrated Priorities Lists (IPLs) refinement, coalition Ballistic Missile Defense (BMD), and future operational plans. Continued to improve the simulation environment with specific enhancements including effects based modeling of Army's Integrated Battlefield Control System (IBCS) with the Integrated Fire Control (IFC) network, improved electronic warfare modeling, better data link fidelity for Link-16 and Cooperative Engagement Capability (CEC) networks and gateway concepts. Integrated four adversary simulators, added additional F-35 simulators, and introduced limited blue offensive cyber capabilities and National Technical Means (NTM) to tactical concepts.</p> <p>FY 2014 Plans: Continue to advance the IAMD mission area through focused improvements to blue force systems and capabilities, increasingly realistic and representative threat environment, and meaningful support of IAMD stakeholders within DoD, Services, and Combatant Commanders. Specific FY 2014 improvements include the introduction of the Three Dimensional Expeditionary Long-Range Radar (3DELRR), close coordination with USSTRATCOM and Joint Electronic Protection for Air Combat (JEPAC) for improving overall EW modeling, enhancements to IR modeling to include passive kill chains, introduction of Missile Defense Agency Program Office (MDA/TH) approved Terminal High Altitude Area Defense (THAAD) simulation, introduction of Sea-Based Terminal (SBT) capability, refinements to adversary simulators, blue offensive cyber, NTM to tactical concepts, and other classified joint force capabilities. The environment will support a total of six events in FY 2014, executing three operator in the loop events in support of CENTCOM or PACOM and three service or COCOM led events (1x USN, 1x USMC, 1x NORTHCOM). The NORTHCOM event will support a Homeland technology assessment for the National Capital Region (NCR).</p> <p>FY 2015 Plans: Continue to upgrade Army simulators. Enhance Electronic Attack capabilities, data links and composite tracking on all systems. Integrate four F-35 Joint Strike Fighter cockpits for joint forces. Support impacts of Electronic Attack, emerging CONOPS/TTP's, limited offensive operations, and Integrated Fire Control in PACOM and CENTCOM AORs. Execute three operator in the loop events.</p>			
Accomplishments/Planned Programs Subtotals	10.300	9.656	9.400

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

Remarks

D. Acquisition Strategy
Not required for Budget Activities 1, 2, 3 and 6.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff		Date: March 2014
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605126J / <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	Project (Number/Name) P005 / <i>Nimble Fire</i>

E. Performance Metrics

- (1) Complete events within schedule and budget.
- (2) Specific details are classified.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff										Date: March 2014		
Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0605126J / Joint Integrated Air & Missile Defense Organization (JIAMDO)				Project (Number/Name) P006 / Cruise Missile Combat Identification (CID)			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
P006: <i>Cruise Missile Combat Identification (CID)</i>	30.233	7.608	7.671	7.398	-	7.398	6.356	6.000	5.500	6.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

The Joint Integrated Air and Missile Defense Organization (JIAMDO) is the organization within the Department of Defense (DoD) chartered to plan, coordinate, and oversee Joint Air and Missile Defense (AMD) requirements, joint operational concepts, and operational architectures. As part of the CJCS staff, JIAMDO supports the Chairman in meeting his Title 10 responsibilities as they relate to air and missile defense issues. JIAMDO serves as the operational community's proponent for characteristics, requirements, and capabilities in air and missile defense, and is the joint air and missile defense resource proponent within the DoD's resource allocation structures. JIAMDO also leads AMD mission area and utility analyses, integrates air and missile defense within the Force Protection joint capability area, and conducts evaluations and demonstrations of joint air and missile defense architectures and concepts.

JIAMDO has established a close partnership with Combatant Commands (CCMDs) and maintains liaison offices at all major CCMD locations to facilitate coordination of integration issues and requirements. In particular, JIAMDO maintains close coordination with US Strategic Command (USSTRATCOM) in support of ballistic missile defense of the U.S. It provides the Chairman, JCS and the Joint Requirements Oversight Council (JROC) the ability to meet statutory responsibilities to review the cost, schedule, and performance criteria of Missile Defense Agency (MDA) missile defense programs, and assesses the validity of those criteria in relation to national and military requirements. At the request of USSTRATCOM, and at the direction of the CJCS, JIAMDO supports USSTRATCOM in the conduct of Military Utility Assessments and analysis of the Ballistic Missile Defense System (BMDS). JIAMDO supports the USSTRATCOM mission by ensuring operational and technical requirements are integrated into the theater missile warning architecture. JIAMDO represents the Joint Staff in work on the AMD Capabilities Based Assessment Joint Service Team and provides direct support to US Northern Command (USNORTHCOM) for homeland air surveillance issues.

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

Title: Cruise Missile Combat Identification (CID)	FY 2013	FY 2014	FY 2015
	7.608	7.671	7.398
Description: Develops joint Counterair Combat Identification technology, and positions it for fielding on front-line weapon systems. Monitors, assesses, and enhances joint AMD Combat ID programs.			
FY 2013 Accomplishments: Details of this program are classified.			
FY 2014 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff		Date: March 2014		
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0605126J / <i>Joint Integrated Air & Missile Defense Organization (JIAMDO)</i>	Project (Number/Name) P006 / <i>Cruise Missile Combat Identification (CID)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
Details of this program are classified.				
FY 2015 Plans: Details of this program are classified.				
Accomplishments/Planned Programs Subtotals		7.608	7.671	7.398
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
Not required for Budget Activities 1, 2, 3 and 6.				
E. Performance Metrics				
Details of this program are classified.				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0204571J <i>I Joint Staff Analytical Support (JSAS)</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	3.010	-	0.087	10.321	-	10.321	8.087	6.844	7.011	7.011	-	42.371
P001: <i>Future Joint Force Development</i>	0.018	-	-	9.489	-	9.489	7.145	5.815	5.973	5.973	-	34.413
P002: <i>Global Force Management Data Initiative (GFM DI)</i>	2.992	-	0.087	0.832	-	0.832	0.942	1.029	1.038	1.038	-	7.958

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

A. Mission Description and Budget Item Justification

The Joint Staff Analytical Support (JSAS) family of programs provides defense analytical support capabilities for the CJCS and Combatant Commands (CCMDs). JSAS encompasses the developmental tools and infrastructure required to conduct analyses and formulates the results to best assist the Chairman in fulfilling his statutory responsibilities. Key deliverables provided by JSAS include wide-ranging force structure assessments, course of action development for the Joint Force environment, analyses and studies to aid in decision-making, and other analysis efforts to implement timely, low-cost initiatives.

B. Program Change Summary (\$ in Millions)

	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015 Base</u>	<u>FY 2015 OCO</u>	<u>FY 2015 Total</u>
Previous President's Budget	-	2.097	0.924	-	0.924
Current President's Budget	-	0.087	10.321	-	10.321
Total Adjustments	-	-2.010	9.397	-	9.397
• Congressional General Reductions	-	-0.010			
• Congressional Directed Reductions	-	-2.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Change	-	-	9.397	-	9.397

Change Summary Explanation

The Chairman, Joint Chiefs of Staff directed J7 to realign the experimentation functions originally outlined in PE 0603828J, Joint Experimentation, to PE 0204571J, Joint Staff Analytical Support, beginning in FY 2015. J7 maintained the concept development and wargaming functions and the shift in focus aligns more closely with those functions under BA 06 RDT&E, Joint Staff Analytical Support (JSAS).

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400 / 6					R-1 Program Element (Number/Name) PE 0204571J / Joint Staff Analytical Support (JSAS)				Project (Number/Name) P001 / Future Joint Force Development			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
P001: <i>Future Joint Force Development</i>	0.018	-	-	9.489	-	9.489	7.145	5.815	5.973	5.973	-	34.413
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

The Joint Staff Analytical Support (JSAS) family of programs provides defense analytical support, joint concept development and joint wargaming capabilities for the CJCS and Combatant Commands (CCMDs). JSAS encompasses the developmental tools and infrastructure required to conduct evaluation of concepts through Wargaming, develops joint concepts, conducts research and analysis of joint capability gaps, and actively researches, develops and integrates relevant non-materiel solutions, lessons learned, and best practices across the DOTMLPF spectrum in order to support increased capability for the current and future Joint Force to assist the Chairman in fulfilling his statutory responsibilities. Key deliverables provided by JSAS include wide-ranging force structure assessments through joint concept development, joint wargaming by utilizing joint and coalition operational analysis which provides course of action development for the Joint Force structure, and environment, analyses, and studies to aid in decision-making and other analysis efforts to implement timely, low-cost initiatives.

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

	FY 2013	FY 2014	FY 2015
Title: Future Joint Force Development	-	-	9.489
<p>Description: FY 2015 efforts will focus on supporting the President’s “Sustaining U.S. Global Leadership Priorities for the 21st Century Defense” with emphasis on implementing the Joint Operational Access Concept, and building Joint Force 2020 as described in the Chairman, Joint Chiefs of Staff Capstone Concept for Joint Operations. Specific work will focus on joint concept development, including implementation, evaluation through the Iron Crucible Wargaming effort, gap analysis, the resultant recommended non-materiel solutions that will improve current and future joint force capability including operating in anti-access and area denial environments, joint command & control, counterterrorism, and defeating threats in all domains, including cyber.</p> <p>FY 2014 Plans: FY 2014 accomplishments include the inaugural execution of the Chairman’s Wargame, Iron Crucible, which assesses the ability of the programmed Joint Force of 2020 to execute globally integrated operations through global agility and flexible joint command and control. The first execution of Iron Crucible will focus on the Capstone Concept for Joint Force 2020 (CCJO), the Joint Operational Access Concept (JOAC), the Joint Concept for Entry Operations (JCEO), and the Joint Concept for Rapid Aggregation (JCRA). The outcome will validate the central idea of the concepts and discovered capability gaps to be considered for future concepts. In support of the anticipated development of a follow-on to the current CCJO, a sequence of seminars engaging military and civilian DoD experts, academia, and think tanks on the future operations environment beyond 2020 was initiated and will conclude in FY15 with the publishing of a final report. Other accomplishments include the completion and signing</p>			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff		Date: March 2014		
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0204571J / <i>Joint Staff Analytical Support (JSAS)</i>	Project (Number/Name) P001 / <i>Future Joint Force Development</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
of the JCEO and JCRA plus implementation plans for JOAC, JCEO and JCRA, and the Joint Concept for Joint Electromagnetic Spectrum Operations (JCJEMSO).				
FY 2015 Plans: Specific work will focus on joint concept development, including implementation, evaluation through the Iron Crucible Wargaming effort, gap analysis, the resultant recommended non-materiel solutions that will improve current and future joint force capability including operating in anti-access and area denial environments, joint command & control, counterterrorism, and defeating threats in all domains, including cyber.				
Accomplishments/Planned Programs Subtotals		-	-	9.489
C. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
D. Acquisition Strategy				
N/A				
E. Performance Metrics				
Future Joint Force Development efforts result in development of and integration or transition/implementation of concepts and capabilities to improve current and future joint force capability, and are measured by the following:				
<ul style="list-style-type: none"> (1) Completion of implementation plans for approved concepts and establishment of assessment mechanisms to measure execution of implementation plans. (2) Collaboration with a broad, cross-cutting representation from Services, Academia, CCMDs, Defense Agencies, and Industry to conduct research and produce analysis in support of Joint Force development. (3) Introduce teams of innovative operating methods leading to DOTmLPF changes. (4) Development of new concepts which are vetted through a deliberate, rigorous, process resulting in Chairman of the Joint Chiefs of Staff (CJCS) endorsement. (5) Successful execution of CJCS Wargame, Iron Crucible series of events, and transition of wargame outcomes into appropriate mechanisms to foster Joint Force Development consistent with CJCS Joint Force 2020 objectives. 				

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0204571J / Joint Staff Analytical Support (JSAS)	Project (Number/Name) P002 / Global Force Management Data Initiative (GFM DI)
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
P002: Global Force Management Data Initiative (GFM DI)	2.992	-	0.087	0.832	-	0.832	0.942	1.029	1.038	1.038	-	7.958
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

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

A. Mission Description and Budget Item Justification

The Joint Staff Analytical Support (JSAS) family of programs provides defense analytical support capabilities for the CJCS and Combatant Commands (CCMDs). JSAS encompasses the developmental tools and infrastructure required to conduct analyses and formulates the results to best assist the Chairman in fulfilling his statutory responsibilities. Under the umbrella of analytical support tools are the Automated Global Force Management Tool (AGT) and the Collaborative Issue Resolution Tool (CIRT), both which will meet requirements set forth in Title 10 U.S.C. and the Unified Command Plan (UCP) for automating the Global Force Management Implementation Guidance Forces For (Assignment and Apportionment) tables. Additionally, the Joint Organizational Server (JOS) will be the enabler system for Joint Staff personnel to be entered, near-real-time, into the automated Forces For Process.

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

	FY 2013	FY 2014	FY 2015
Title: Global Force Management Data Initiative (GFM DI)	-	0.087	0.832
Description: RDT&E funds for the Global Force Management (GFM) program will enable the Assignment, Allocation, and Apportionment functions for forces to meet the requirements set forth in Title 10 U.S.C. and the Unified Command Plan (UCP). The development of the Secretary of Defense's "Forces for Unified Commands" Memorandum Assignment Tables has historically been a labor intensive staffing process conducted annually. The automated GFM Toolset is the first downstream consumer of force structure data resident in the seven organization (org) servers that are made available by the GFM DI effort. CIRT has streamlined force management, increased common understanding of force assignment, and supported timely force management decisions. The objective is to automate the generation of the Global Force Management Implementation Guidance (GFMIG) and Forces For Unified Commands (Forces For) Assignment, Apportionment, and Allocation tables. These efforts will flatten, streamline, and automate the current process while providing high fidelity data and transparency, and enhance Combatant Commander risk assessment to operational plans. The Joint Organizational Server (JOS) will be the enabler system for Joint Staff personnel to be entered, near-real-time, into the automated Forces For Process. Failure to fund for this effort negatively impacts the ability of the Services, CCMDs, JS and OSD to efficiently manage force structure resources.			
FY 2013 Accomplishments: No change from previous year - no RDT&E used in FY 2013			
FY 2014 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2015 The Joint Staff		Date: March 2014		
Appropriation/Budget Activity 0400 / 6	R-1 Program Element (Number/Name) PE 0204571J / <i>Joint Staff Analytical Support (JSAS)</i>	Project (Number/Name) P002 / <i>Global Force Management Data Initiative (GFM DI)</i>		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
Development of the AGT for Assignment and Apportionment functions to meet Full Operation Capability (FOC) schedule. Once FOC, AGT will need to be tested with actual data via individual service management systems (servers) to validate the forces assignment. FY 2015 Plans: Finalize the AGT for Assignment and Apportionment functions to meet GO/FO Staffing cycle event for AGT verification testing. Enable full Joint Operations Capability for two-way interface with individual service management systems and OSD servers.				
Accomplishments/Planned Programs Subtotals		-	0.087	0.832
C. Other Program Funding Summary (\$ in Millions) N/A				
Remarks				
D. Acquisition Strategy N/A				
E. Performance Metrics (1) The Services, CCMDs, JS and OSD will be able to efficiently manage force structure resources in half the time the current process takes. (2) Global force structure management will now become a near-real time planning tool.				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0303166J <i>I Support to Information Operations Capability</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	3.975	8.394	11.552	-	11.552	11.713	11.876	12.000	12.000	Continuing	Continuing
001: <i>Information Operations Range</i>	0.000	3.975	8.394	11.552	-	11.552	11.713	11.876	12.000	12.000	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

The Joint Information Operations Range (JIOR) is a closed-loop network that forms a live-fire range utilizing encrypted tunneling over existing networks to conduct training, testing, and experimentation in support of Information Operations (IO) Electronic Warfare (EW), Computer Network Attack (CNA)/Computer Network Defense (CND), and Cyberspace mission areas in a threat representative environment.

B. Program Change Summary (\$ in Millions)

	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015 Base</u>	<u>FY 2015 OCO</u>	<u>FY 2015 Total</u>
Previous President's Budget	5.849	8.394	8.552	-	8.552
Current President's Budget	3.975	8.394	11.552	-	11.552
Total Adjustments	-1.874	-	3.000	-	3.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Change	-1.874	-	3.000	-	3.000

Change Summary Explanation

FY 2013 was the first year TJS executed in PE 0303166J, Support to Information Operations Capability. Prior to FY 2013, USD(I) owned the funding and reported the information in their exhibits.

The increase in funding from FY 2014 to FY 2015 will support additional cyber events utilizing the Joint IO range as well as the deployment of tools to support faster reconfiguration and enhanced recording and playback.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff	Date: March 2014
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0303166J <i>I Support to Information Operations Capability</i>
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
<p>Title: Information Operations Range</p> <p>Description: The Joint Information Operations Range (JIOR) is a closed-loop network that forms a live-fire range utilizing encrypted tunneling over existing networks to conduct training, testing, and experimentation in support of Information Operations (IO) Electronic Warfare (EW), Computer Network Attack (CNA)/Computer Network Defense (CND)), and Cyberspace mission areas in a threat representative environment.</p> <p>FY 2013 Accomplishments:</p> <ul style="list-style-type: none"> (1) Expanded national DoD and Inter-Agency awareness and support regarding IO and cyber related activities. (2) Improved the threat representation and operational relevance of the network. (3) Improved the integration of Live, Virtual, and Constructive (LVC) simulations with other Joint training and testing communities and infrastructures. (4) Developed a long term JIOR infrastructure development, operation and sustainment management plan that supports the application of user resources allocated by JIOR stakeholders to support user activities, to include JIOR expansion and modernization and interoperability with National and DoD Cyber Ranges. (5) Improved capability to rapidly reset, regenerate, and adapt events. (6) Improved capability to provide timely assessment for evaluation. (7) Established cost-reimbursable funding construct. <p>FY 2014 Plans:</p> <ul style="list-style-type: none"> (1) Expand national DoD and Inter-Agency awareness and support regarding IO and cyber related activities (2) Improve the threat representation and operational relevance of the network (3) Improve the integration of LVC simulations with other Joint training and testing communities and infrastructures <p>FY 2015 Plans:</p> <ul style="list-style-type: none"> (1) Expand national DoD and Inter-Agency awareness and support regarding IO and cyber related activities (2) Improve the threat representation and operational relevance of the network (3) Improve the integration of LVC simulations with other Joint training and testing communities and infrastructures 	3.975	8.394	11.552
Accomplishments/Planned Programs Subtotals	3.975	8.394	11.552

D. Other Program Funding Summary (\$ in Millions)
N/A

Remarks

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> / BA 6: <i>RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0303166J / <i>Support to Information Operations Capability</i>
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E. Acquisition Strategy
The Joint IO Range, under Joint Staff J7, manages the development and expansion of Joint IO Range capabilities to an increasing number of customers. Integration into the Joint Exercise program has allowed users to increase the use and capability of the range. Continued development of tools for the range will be required as adversarial capabilities improve.

F. Performance Metrics
Performance metrics are measured through internal management controls and external assessments. Performance metrics include, but are not limited to time, money, realism, and fidelity.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0607828J <i>Joint Integration & Interoperability</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	4.200	12.652	11.968	-	11.968	11.594	6.761	8.318	6.684	Continuing	Continuing
P818: <i>Joint Integration & Interoperability</i>	0.000	4.200	12.652	11.968	-	11.968	11.594	6.761	8.318	6.684	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

Joint Integration and Interoperability (JI&I) leads the development, assessment and validation of military C4/Cyber capability requirements in order to achieve an effective and agile joint force. Efforts include C4/Cyber requirements determination, prioritization, integration and assessment; C4 standards and technical specification development, documentation and enforcement, and capture of key information exchanges, services, capabilities, and systems in support of joint and multinational operations.

B. Program Change Summary (\$ in Millions)

	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015 Base</u>	<u>FY 2015 OCO</u>	<u>FY 2015 Total</u>
Previous President's Budget	4.200	12.652	12.895	-	12.895
Current President's Budget	4.200	12.652	11.968	-	11.968
Total Adjustments	-	-	-0.927	-	-0.927
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Change	-	-	-0.927	-	-0.927

Change Summary Explanation

PE 0607828J, Joint Integration and Interoperability, was transferred to the Joint Staff O&M account from OUSD (AT&L) in FY 2013.

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

	FY 2013	FY 2014	FY 2015
Title: Joint Integration & Interoperability	4.200	12.652	11.968
Description: Primary objective is the resolution of C2 warfighter requirements and interoperability shortfalls:			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff		Date: March 2014		
Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>		R-1 Program Element (Number/Name) PE 0607828J / <i>Joint Integration & Interoperability</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
<p>(1) Improved, integrated, interoperable, and networked joint force</p> <p>(2) Reduction in duplicative C2 systems/programs across the DoD portfolio</p> <p>(3) Improved decisions and recommendations regarding capability trade-off investment strategies and development efforts.</p> <p>FY 2013 Accomplishments:</p> <p>(1) Led the requirements definition process foundational implementation framework and architecture products necessary to evolve the DoD Joint Information Environment (JIE) / Mission Partner Environment (MPE) capabilities, and provided oversight and management of integration activities.</p> <p>(2) Conducted Joint Staff sponsored Bold Quest Coalition Capability Demonstration and Assessment involving 13 partner nations, all US Services and U.S. Special Operations Command successfully demonstrating the integration of Cyber capabilities with command and control of Conventional and Special Operations Force missions from a multi-national perspective at the tactical level. Led interoperability efforts across DOD and partner nations at the operational and tactical level for mission partner operations, fire support, Combat Identification (CID), and Friendly Force Tracking (FFT) capabilities.</p> <p>(3) Performed C2 capability prioritization and sequencing via the USD (AT&L)-sponsored Joint C2 Sustainment and Modernization Plan process, with follow-on C2 capability production, integration, fielding, and sustainment for FY 2013 - FY 2015.</p> <p>(4) Led configuration management of C2 Core Version 2.0 and facilitated C2 Core implementation through the Tactical Edge Data Solutions (TEDS) Joint Capability Technology Demonstration and piloting activities with the National Geospatial Agency and the Open Geospatial Consortium. Supported DOD CIO development of the DOD Data Framework and DOD adoption of the National Information Exchange Model (NIEM), leading stand-up of the MILOPS domain.</p> <p>(5) Supported cross-DOD efforts to enhance the capability to collaborate, leverage, and improve developed and emergent joint mission threads (JMTs) via architecture federation efforts to address JROC interest issues and requirements capabilities, developed solutions architectures and conducted analysis to determine C4 capability development priorities, identify capability redundancies/gaps, and identify critical joint C4 interoperability opportunities and requirements. Analyzed Joint Capabilities Integration and Development System (JCIDS) required architecture products to provide Global Information Grid (GIG) connection / interoperability waivers.</p> <p>FY 2014 Plans:</p> <p>(1) Continue to lead requirements definition and integration efforts regarding DoD Joint Information Environment (JIE) / Mission Partner Environment (MPE) capabilities and DOT_LPF-P solution tradeoffs. Develop an integrated and prioritized C4 capabilities action plan to address validated capability shortfalls. Develop a Joint C4I Partnership to establish and manage a predictable</p>				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff	Date: March 2014
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0607828J / <i>Joint Integration & Interoperability</i>
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
<p>and operationally realistic environment for capability development, assessment, test, and certification of COCOM and JTF C4I systems. Assess and test systems providing capabilities to joint missions in an operational environment to verify interoperability earlier in the development cycle to enhance joint and coalition force C4I assessment, test and certification. Continue to develop, prioritize, and sequence C2 capability requirements and perform Operational Impact and Risk Assessment of Joint C2 capabilities based on CCMD and Service inputs.</p> <p>(2) Continue to transition the C2 Core data exchange standard to the National Information Exchange Model (NIEM), including maturation and implementation of the NIEM Military Operations Domain. Provide training and support to NIEM implementation activities within the Warfighter Mission Area (WMA) to promote DOD and interagency interoperability. Continue to lead the NATO C3 Board Information Integration Services Capability Team and define a NATO Core Data Framework to facilitate data sharing capabilities with NATO nations.</p> <p>(3) Continue to lead interoperability efforts across DOD and partner nations at the operational and tactical level for mission partner operations, fire support, Combat Identification (CID), and Friendly Force Tracking (FFT) capabilities. Continue to execute Joint Fire Support (JFS)/Joint Close Air Support (JCAS) and CID-FFT action plans to fulfill JROC-chartered, GOFO-level responsibilities. Continue to conduct JFS Executive Steering Committee (ESC) standardization team accreditation visits to US and partner nation schoolhouses to ensure MOA signatories are accomplishing schoolhouse training in compliance with the Memorandums. Execute Joint Staff-sponsored Bold Quest 2014 assessment demonstration, including integration of Cyber capabilities with command and control of Conventional and Special Operations Force missions-from a multinational perspective-at the tactical level.</p> <p>(4) Analyze Net Ready Key Performance Parameter (NR KPP) architectures and capabilities for interoperability and integration, and provide NR KPP waiver recommendations based on operational/systems requirements analysis. Support C4/Cyber Functional Capabilities Board (FCB) on JROC interest issues with analysis and architectures. Continue to support FCB architecture-based analyses requirements through expanding the architecture federation effort.</p> <p>(5) Continue development of joint mission threads in accordance with JROC and C4/Cyber FCB guidance. Expand the quantity and quality of WMA architecture data available to support DOD CIO architecture requirements and Joint Staff capability analysis, assessments, and modeling and simulation processes.</p> <p>FY 2015 Plans:</p> <p>(1) Continue to lead implementation and integration efforts for DoD Joint Information Environment (JIE) / Mission Partner Environment (MPE) capabilities, including piloting and implementation efforts with COCOMs, Services, Agencies, and Coalition partners. Continue the integration of JIE/MPE and Cyber capabilities into joint and coalition training. Extend development of JIE/</p>			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff		Date: March 2014		
Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>		R-1 Program Element (Number/Name) PE 0607828J <i>Joint Integration & Interoperability</i>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2013	FY 2014	FY 2015
<p>MPE architecture products to enhance linkage with Coalition partners. Leverage the Joint C4I Partnership to manage capability development, assessment, test, and certification of COCOM and JTF C4I systems and capabilities. Continue development of C4/Cyber requirements and assessment of systems providing capabilities to joint missions in an operational environment to verify interoperability earlier in the development cycle. Continue to develop, prioritize, and sequence C4/Cyber capability requirements and enterprise mission services.</p> <p>(2) Continue to lead interoperability efforts across DOD and partner nations at the operational and tactical level for mission partner operations, fire support, Combat Identification (CID), and Friendly Force Tracking (FFT) capabilities. Execute Joint Staff-sponsored Bold Quest 2015 assessment demonstration, including integration of Cyber capabilities with command and control of Conventional and Special Operations Force missions from a multi-national perspective at the tactical level.</p> <p>(3) Support DOD CIO efforts to refine and implement the DOD Data Framework and lead the implementation of the NIEM Military Operations Domain, data exchange standards. Continue JROC-directed Authoritative Data Source (ADS) work with emphasis on the Cyber mission area. Begin transition of Tactical Infrastructure Enterprise Services (TIES) Joint Capability Technology Demonstration (JCTD) to automate DOD meta-data tagging and identity access capabilities.</p> <p>(4) Continue development of joint mission threads in accordance with JROC and C4/Cyber FCB guidance to expand development of solutions architectures for enterprise mission services in support of DOD JIE/MPE and Cyber capabilities. Provide joint mission thread data via web-enabled portal capability to enable operational context data reuse for testing, training, programming, and program development. Continue to refine the quantity and quality of WMA architecture data available to support DOD CIO architecture requirements and Joint Staff capability analysis, assessments, and modeling and simulation processes. Analyze NR KPP architectures and capabilities for interoperability and integration, and provide NR KPP waiver recommendations based on operational/systems requirements analysis.</p>				
Accomplishments/Planned Programs Subtotals		4.200	12.652	11.968
D. Other Program Funding Summary (\$ in Millions)				
N/A				
Remarks				
E. Acquisition Strategy				
Not applicable for this item.				

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff		Date: March 2014
Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0607828J <i>Joint Integration & Interoperability</i>	
F. Performance Metrics <p>(1) Develop coordinated joint C4 operational assessments, tests and evaluations to identify, prioritize, and document interoperability deficiencies that produce Component plans and actions to reduce or eliminate identified deficiencies.</p> <p>(2) Provide mission capable solutions for joint interoperability and integration capability shortfalls to influence and resource joint C4 solutions in the POM.</p> <p>(3) Provide situation awareness and cooperative/non-cooperative identification capabilities that enable U.S. and NATO/Coalition warfighters to identify friendly, enemy and neutral forces for "shoot/don't shoot" decisions.</p> <p>(4) Synchronize Service testing, acquisition and fielding of Mode 5 IFF capability, with an Initial Operating Capability (IOC) in 2014 and Full Operational Capability (FOC) in 2020.</p> <p>(5) Complete Definition Package for Block 2 of Digitally Aided Close Air Support (DACAS) coordinated implementation in conjunction with participating Service programs of record.</p> <p>(6) Conduct Accreditation Biennial Visits for 5 Joint Terminal Attack Controller (JTAC) and 2 Joint Fires Observer (JFO) Schoolhouses.</p> <p>(7) Monitor compliance for Mode 5 IOC in FY 2014 and FOC in FY 2020.</p> <p>(8) Develop annual JROC approved plan to identify prioritized and synchronized capabilities sufficient for near-term development and fielding to warfighters (12-18 month delivery).</p> <p>(9) Develop, as required, JROC requirements documentation (Initial Capabilities Documents, Capability Development Documents, Capability Production Documents, Concept of Operations, Measure of Effectiveness/Measure of Performance) sufficient for agile/flexible used by the acquisition community.</p> <p>(10) Continue development of reusable architecture products to provide capability developers with an upfront operation/systems view at the enterprise level to support capability acquisition, requirements generation, development, and testing.</p> <p>(11) Establish common WMA data and service standards and facilitate access to authoritative data assets in order to provide the warfighter timely access to critical information for Joint, Interagency, and Multinational partners.</p>		

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

Appropriation/Budget Activity 0400 / 7	R-1 Program Element (Number/Name) PE 0607828J / Joint Integration & Interoperability	Project (Number/Name) P818 / Joint Integration & Interoperability
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Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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			
FFRDC Engineering & Technical Services	FFRDC	MITRE : Hampton Roads, VA	-	0.190	Feb 2013	0.190	Feb 2014	0.190	Feb 2015	-		0.190	Continuing	Continuing	-
Contract Management Support Services	C/CPFF	Various DoD : Various	-	1.401	Sep 2013	5.953	Sep 2014	5.150	Sep 2015	-		5.150	-	-	-
Contract Engineering and Technical Services	C/CPFF	MAN-TECH : Various	-	0.220	Feb 2013	2.160	Oct 2013	2.500	Oct 2014	-		2.500	-	-	-
Travel	TBD	DoD : Various	-	0.200		0.200		0.168		-		0.168	-	-	-
Contract Management Support Services	MIPR	SADIE : Various	-	0.400	Mar 2013	0.270	Mar 2014	-		-		-	-	-	-
FFRDC Contract Engineering and Technical Services	FFRDC	Old Dominion University : Norfolk, VA	-	0.180	Dec 2012	0.360	Dec 2013	0.360	Dec 2014	-		0.360	-	-	-
Contract Engineering and Technical Services	MIPR	Bold Quest : Various	-	0.889		2.300		2.300		-		2.300	-	-	-
Contract Engineering and Technical Services	C/CPFF	GTRI : Various	-	0.720	Dec 2012	1.219	Dec 2013	1.300	Dec 2014	-		1.300	-	-	-
Subtotal			-	4.200		12.652		11.968		-		11.968	-	-	-
Project Cost Totals			-	4.200		12.652		11.968		-		11.968	-	-	-

Remarks

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0208043J I <i>Planning and Decision Aid System (PDAS)</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	4.690	3.603	3.061	1.842	-	1.842	3.061	3.061	3.061	3.061	Continuing	Continuing
P001: <i>Planning and Decision Aid System OPS</i>	4.690	3.603	3.061	1.842	-	1.842	3.061	3.061	3.061	3.061	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

Provides engineering and testing support to the Planning and Decision Aid System, a classified Joint Staff automated information system supporting the combatant commanders, Services, and Department of Defense Agencies.

B. Program Change Summary (\$ in Millions)

	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015 Base</u>	<u>FY 2015 OCO</u>	<u>FY 2015 Total</u>
Previous President's Budget	3.603	3.061	3.061	-	3.061
Current President's Budget	3.603	3.061	1.842	-	1.842
Total Adjustments	-	-	-1.219	-	-1.219
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Change	-	-	-1.219	-	-1.219

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

Title: Planning and Decision Aid System (PDAS)

Description: Critical engineering support monitors the ever-changing information technology environment and develops strategies and solutions to integrate modern commercial off the shelf upgrades to the existing system. Contractor-independent testing ensures government developmental testing is performed on all software upgrades regardless of size.

FY 2013 Accomplishments:

FY 2013	FY 2014	FY 2015
3.603	3.061	1.842

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff	Date: March 2014
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0208043J I <i>Planning and Decision Aid System (PDAS)</i>
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
Details of the program are classified.			
FY 2014 Plans: Details of the program are classified.			
FY 2015 Plans: Details of the program are classified.			
Accomplishments/Planned Programs Subtotals	3.603	3.061	1.842

D. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

E. Acquisition Strategy

Details of the program are classified.

F. Performance Metrics

- (1) Independent testing of at least 3-client and 2-server based software patches.
- (2) Maintenance of the Planning and Decision Aid System technology road-map.
- (3) Trade studies for specific commercial off the shelf solutions.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff **Date:** March 2014

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0902298J I <i>Management Headquarters</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	5.537	4.148	3.475	4.409	-	4.409	2.978	1.010	1.055	1.055	Continuing	Continuing
P001: <i>Joint Staff Information Network (JSIN)</i>	5.537	4.148	3.475	4.409	-	4.409	2.978	1.010	1.055	1.055	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

Management Headquarters provides the day-to-day financial resources necessary to support The Joint Staff (TJS) operations. Across TJS, Management Headquarters supports various efforts including network infrastructure, civilian pay accounts, supplies, travel, training, portfolio management, business process reviews, and transformation initiatives. TJS is transitioning to the Joint Information Environment (JIE) framework to achieve full spectrum superiority, improve mission effectiveness, increase security, and realize IT efficiencies.

B. Program Change Summary (\$ in Millions)

	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015 Base</u>	<u>FY 2015 OCO</u>	<u>FY 2015 Total</u>
Previous President's Budget	4.148	3.533	5.530	-	5.530
Current President's Budget	4.148	3.475	4.409	-	4.409
Total Adjustments	-	-0.058	-1.121	-	-1.121
• Congressional General Reductions	-	-0.058			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Change	-	-	-1.121	-	-1.121

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

	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>
Title: Joint Staff Information Network (JSIN)	4.148	3.475	4.409
Description: Provides RDT&E funds for the Joint Staff Information Network (JSIN). JSIN is the network infrastructure (for both classified and unclassified information) enabling collaboration and information-sharing among the Joint Staff, Combatant Commands (CCMD) and the Services. The JSIN also provides crucial business-related, decision-making information and			

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff	Date: March 2014
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0902298J I <i>Management Headquarters</i>
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
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workflow support affecting military operations in support of the JCS. JSIN improves actions processing for faster coordination of critical issues with CCMDs, Services, and Agencies, as well as within TJS.

FY 2013 Accomplishments:

Provided support to Joint Staff Information Technology initiatives including planning for the migration and assumption of partial Service desk operations by the US Army Information Technology Agency, planning for Verification, Design and Implementation (VDI), Desktop, Server and Application Virtualization (S), transition to multi-domain Consolidated Data Center (CDC) planning; Cross Domain Services Initial Operational Capability (IOC), Enterprise Content Management (U), Mobile Computing solutions, Unified Communications Capabilities, Enterprise Services Implementation and Joint Information Environment (JIE) planning and implementation, Identity and Access Management capabilities; reduction and consolidation of JS print capabilities and classified Secure Terminal Equipment (STE) reduction to achieve efficiencies, improve mission effectiveness, and strengthen our security posture.

Optimization, closing, or realigning use of data centers with virtualization methods and evaluations, improved tools and visibility to virtual platforms, and researching improved ways to obtain hosting services. Provided evaluations technology with consideration for the potential to become an enterprise service. Refined tracking of costs and decision making through the Portfolio Management Repository, capturing inputs, and validation across the Joint Staff.

FY 2014 Plans:

Provide planning and support to Joint Staff Information Technology initiatives, including continued Defense Enterprise Computing Center (DECC) migration for JS applications, Thin Client (U) and Mobile Computing, Defense Enterprise Portal Services (DEPS) (S), continue Application Virtualization (S) and (U), Cross Domain Services Full Operational Capability (FOC), DISA Enterprise Content Management (DECMS) (U) optimization and integration, Mobile Computing solutions, Unified Communications Capabilities transition to VOIP/VoSIP, Enterprise Services Implementation including Enterprise Task Management (U/S), JS Service Desk optimization implementation, Identity and Access Management capabilities and Cloud Computing readiness to achieve efficiencies, improve mission effectiveness, and strengthen our security posture.

FY 2015 Plans:

Provide planning and support to Joint Staff Information Technology initiatives, including continued migration for Service Desk operations to the US Army Information Technology Agency and JS applications, refinement of Thin Client (U) and Mobile Computing solutions, Application Virtualization (S) and (U), Cross Domain Services FOC, Enterprise Content Management and Task Management (U) optimization and integration through JIE, on-going STE transition to Secure VOIP/VoSIP, Enterprise Services Implementation including Enterprise Task Management (U/S), Identity and Access Management capabilities, implementation of a Managed Print Service (MPS), and consideration of DoD cloud services for achieving efficiencies, improved

	FY 2013	FY 2014	FY 2015

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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 The Joint Staff	Date: March 2014
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Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0902298J I <i>Management Headquarters</i>
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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2013	FY 2014	FY 2015
mission effectiveness, and strengthening our security posture. Track JIE definitions and architecture for purposes of migration upon availability.			
Accomplishments/Planned Programs Subtotals	4.148	3.475	4.409

D. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

E. Acquisition Strategy

N/A

F. Performance Metrics

- (1) Reduce technical support hours per desktop a minimum of 10% through deployment of thin client and virtualized management of the IT baseline.
- (2) Avoid cost for technology refresh of NIPR and SIPR desktops via the proper planning, testing and piloting of a Joint Staff Thin Client solution.
- (3) Reduce the cost of building, operating, and maintaining Joint Staff specific solutions through implementation of enterprise capabilities and adoption of new cost models for execution (Enterprise Task management, Unified Communications, JIE, and MPS).
- (4) Reduce redundancies in Core and Mission IT Capabilities through implementation of a comprehensive Portfolio management policy and avoid cost through the institutionalization of investment management governance model.

