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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force	DATE: February 2011
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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				PE 0303158F: <i>Joint Command and Control</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	-	2.157	-	-	-	-	-	-	-	Continuing	Continuing
675216: <i>JC2 Technology and System Development</i>	-	2.157	-	-	-	-	-	-	-	Continuing	Continuing

Note

In FY 2010, BPAC 675216 JC2 Technology and System Development, Net-Enabled Command Capability (NECC), was terminated. The FY2011 effort transfers from PE 0303158F(JC2)to PE 0303150F(GCCS).

A. Mission Description and Budget Item Justification

This effort contributes to the next generation of joint command and control (C2) capabilities for the Department of Defense (DOD). The GCCS program includes each of the Component GCCS programs (i.e., GCCS-AF FoS, GCCS-M, GCCS-J and GCCS-A), which are the current programs of record within each component. These GCCS programs will transition in response to a critical need for coordinated and integrated enhancements to joint C2 capabilities. The Air Force's contribution to joint C2 will be evolved from elements of the GCCS-Air Force Family of Systems (GCCS-AF FoS). GCCS-AF FoS consists of the following programs (each with their own program elements): TBMCS Force Level (TBMCS-FL), Joint Defensive Planner (JDP) - part of TBMCS-FL baseline program element, Joint Targeting Toolbox (JTT), GCCS-AF Infrastructure (GCCS-AF I), Deliberate Crisis Action Planning and Execution Segment (DCAPES) and the Joint Environmental Toolkit (JET). Leveraging the capabilities provided by the Net-Centric Enterprise Services (NCES) program, joint C2 will accelerate the evolution towards a net-centric, web-based, open-system standards approach to providing C2 capabilities and services as the core of the DOD C2 enterprise architecture. The DOD's joint C2 architecture will deliver capabilities as stated in related Joint Requirements Oversight Council (JROC) validated Capability Development Documents (CDD). This effort enhances the capabilities of the GCCS FoS and includes the migration of capabilities to a more modern, interoperable architecture. The technology development phase encompasses risk reduction activities and engineering analyses with system and architectural analyses. Activities also include studies and analysis to support both current program planning and execution and future program planning. The requested RDT&E funding is critical to support Air Force net-centric transformation efforts in the areas of strategic and operational command and control. Funding supports acquisition activities related to joint C2 evolution. These activities include development, testing, integration, architecture and systems engineering, and transition planning in coordination and synchronization with DISA and the other Services. This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303158F: <i>Joint Command and Control</i>
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B. Program Change Summary (\$ in Millions)	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	-	2.157	-	-	-
Current President's Budget	-	2.157	-	-	-
Total Adjustments	-	-	-	-	-
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-	-	-

Change Summary Explanation

Project Termination: NECC project within PE 0303158F terminated - OUSD(AT&L) ADM - 2 Nov 2009.
FY 2010 Congressional reduction of \$3.087M due to NECC termination.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force								DATE: February 2011			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0303158F: Joint Command and Control				PROJECT 675216: JC2 Technology and System Development			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
675216: JC2 Technology and System Development	-	2.157	-	-	-	-	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
Note In FY 2010, BPAC 675216, JC2 Technology and System Development, Net-Enabled Command Capability (NECC) was terminated. This FY2011 effort transfers from PE 0303158F(JC2) to PE 0303150F(GCCS).											
A. Mission Description and Budget Item Justification This effort contributes to the next generation of joint command and control (C2) capabilities for the Department of Defense (DOD). The GCCS program includes each of the Component GCCS programs (i.e., GCCS-AF FoS, GCCS-M, GCCS-J and GCCS-A), which are the current programs of record within each component. These GCCS programs will transition in response to a critical need for coordinated and integrated enhancements to joint C2 capabilities. The Air Force's contribution to joint C2 will be evolved from elements of the GCCS-Air Force Family of Systems (GCCS-AF FoS). GCCS-AF FoS consists of the following programs (each with their own program elements): TBMCS Force Level (TBMCS-FL), Joint Defensive Planner (JDP) - part of TBMCS-FL baseline program element, Joint Targeting Toolbox (JTT), GCCS-AF Infrastructure (GCCS-AF I), Deliberate Crisis Action Planning and Execution Segment (DCAPES) and the Joint Environmental Toolkit (JET). Leveraging the capabilities provided by the Net-Centric Enterprise Services (NCES) program, joint C2 will accelerate the evolution towards a net-centric, web-based, open-system standards approach to providing C2 capabilities and services as the core of the DOD C2 enterprise architecture. The DOD's joint C2 architecture will deliver capabilities as stated in related Joint Requirements Oversight Council (JROC) validated Capability Development Documents (CDD). This effort enhances the capabilities of the GCCS FoS and includes the migration of capabilities to a more modern, interoperable architecture. The technology development phase encompasses risk reduction activities and engineering analyses with system and architectural analyses. Activities also include studies and analysis to support both current program planning and execution and future program planning. The requested RDT&E funding is critical to support Air Force net-centric transformation efforts in the areas of strategic and operational command and control. Funding supports acquisition activities related to joint C2 evolution. These activities include development, testing, integration, architecture and systems engineering, and transition planning in coordination and synchronization with DISA and the other Services. This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.											
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Synchronization, Integration, Test, and Planning							-	2.157	-	-	-
Description: This effort consists of: synchronization, integration and testing of current/upgraded capabilities; operational baseline problem analysis and technical solution implementation; and systems engineering for infrastructure migration to the next generation joint C2 architecture.											

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<i>FY 2010 Accomplishments:</i> <i>FY 2011 Plans:</i> Continued integration and test of Air Force capabilities into GCCS baseline configurations. Conducted GCCS-AF 4.2.x operational Baseline problem analysis and technical solution implementation. Conducted C2 interoperability and performance studies in support of further consolidation of GCCS Global Release (GR) and Strategic Server Enclave (SSE) configurations to ensure synchronization and interoperability between AF and joint GCCS components. Continued systems engineering support to migration objectives. Conducted studies and analysis to develop stronger configuration control and security protection strategies. Strengthened configuration management, performance engineering and security protection strategies to facilitate migration to the DOD's emerging joint C2 architecture. <i>FY 2012 Base Plans:</i> <i>FY 2012 OCO Plans:</i>					
Accomplishments/Planned Programs Subtotals	-	2.157	-	-	-

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

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PE 0303158F: <i>Air Force Global Command & Control Sytem, (OPAF)</i>	5.571	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

D. Acquisition Strategy

The joint C2 acquisition strategy is developed jointly by the Defense Information Systems Agency (DISA), the Services, the Assistant Secretary of Defense for Networks and Information Integration (ASD (NII)), Office of the Under Secretary of Defense for Acquisition, Technology and Logistics (OUSD(AT&L)), and US Joint Forces Command (USJFCOM).

Each service/component is responsible for awarding new or utilizing existing contracts to develop joint C2 capabilities. All related activities are fully coordinated and integrated among DISA and Service offices.

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E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force											DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0303158F: <i>Joint Command and Control</i>				PROJECT 675216: <i>JC2 Technology and System Development</i>					
Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Product	C/CPAF	TBD:TBD,	-	2.157	Jan 2012	-		-		-	0.000	2.157	0.000
Subtotal			-	2.157		-		-		-	0.000	2.157	0.000
Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-	0.000	0.000	0.000
Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-	0.000	0.000	0.000
Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-	0.000	0.000	0.000
Project Cost Totals			-	2.157		-		-		-	0.000	2.157	0.000
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE: February 2011
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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0303158F: <i>Joint Command and Control</i>	PROJECT 675216: <i>JC2 Technology and System Development</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Air Force Program Management Office (PMO) support to NECC	1	2010	4	2016
Transition and support to evolving joint C2 architecture, engineering and acquisition strategy	1	2010	4	2010

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