

**UNCLASSIFIED**

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0303150F: Global Command and Control System							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	2.433	4.316	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
674667: Global Command and Control System - AF	-	2.433	4.316	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date												
Note												
In FY 2013, 674667, Global Command and Control Systems - Air Force (Infrastructure) will be completed.												
A. Mission Description and Budget Item Justification												
The Global Command and Control System (GCCS) is the Joint Command and Control (C2) System of Record and the designated C2 migration system for the DoD. It is an integrated Command, Control, Communications, Computer, and Intelligence (C4I) system capable of supporting all echelons of the US military command structure. GCCS solves C4I interoperability problems between Service components by establishing a Common Core Operating Environment supporting net-centric objectives. The GCCS-Air Force program provides C2, intelligence, surveillance, reconnaissance (ISR), Cyber, and operational information to the Commander Air Force Forces (COMAFFOR) for planning and execution, air space deconfliction, targeting, weaponeering, and many other applications supporting air operational command and control, and fully supports the Aerospace Expeditionary Force (AEF) concept.												
The Air Force is responsible for integration of Air Force unique mission applications with the Common Core Operating Environment. Integration efforts are directed towards future aerospace C2 concepts supporting requirements for the AOC, including ISR, and intended to automate operational systems with an objective of providing the right people with the right information at the right time while reducing the overall footprint of the system. As they migrate to the GCCS Joint (GCCS-J) core environment, GCCS-AF will integrate applications into the WINx environment satisfying warfighter requirements for the Common Operational Picture (COP), Joint Warning and Reporting Network (JWARN), Joint Targeting Toolbox (JTT), Logistics Feasibility Analysis Capability (LOGFAC), Deliberate Crisis Action Planning and Execution Segment (DCAPES) capabilities, and other information assurance mechanisms.												
Activities also include studies and analysis to support both current program planning and execution and future program planning. The GCCS-AF program is actively supporting planning for transition of functionality to DOD's emerging next generation joint C2 enabler. The GCCS-AF funding will be used to implement evolving Joint and Air Force GCCS functional capability as well as facilitate transition, development and delivery of functionality to DoD's next generation joint C2 enabler.												
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.												

**UNCLASSIFIED**

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force				DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0303150F: Global Command and Control System				
B. Program Change Summary (\$ in Millions)		FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget		3.825	4.316	0.000	-	0.000
Current President's Budget		2.433	4.316	0.000	-	0.000
Total Adjustments		-1.392	0.000	0.000	-	0.000
• Congressional General Reductions		-	0.000			
• Congressional Directed Reductions		-	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		-	0.000			
• Congressional Directed Transfers		-	0.000			
• Reprogrammings		-1.277	0.000			
• SBIR/STTR Transfer		-0.115	0.000			
• Other Adjustments		0.000	0.000	0.000	-	0.000
Change Summary Explanation AF FY12-47 IR DOD FY12-25 IR GCCS Realignment of \$1.277M from RDT&E to O&M to support program sustainment.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2012	FY 2013	FY 2014
Title: Synchronization, Integration, Test, and Planning				2.173	3.273	0.000
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.						
FY 2012 Accomplishments: Provided systems engineering support to GCCS synchronization and migration objective. Conducted GCCS 4.2.x/ joint C2 operational problem analysis and technical solutions implementation. Conducted studies and analysis to develop stronger configuration control and security protection strategies. Strengthened configuration management performance engineering and security protection to strategies to facilitate migration to the DOD's emerging joint C2 architecture.						
FY 2013 Plans: Continues to provide systems engineering support to GCCS synchronization and migration objectives with emerging new joint C2 ( e.g. APEX, JPES). Conducts GCCS 4.2.1 / joint C2 operational problem analysis and technical solutions implementation following joint C2 Objective Architecture. Performs analysis for implementation strategy for transition of baseline systems to new x86 hardware architecture implementations, authentication/authorizations, net-centric core services, and cyber protection						

**UNCLASSIFIED**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2014 Air Force		<b>DATE:</b> April 2013		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>		<b>R-1 ITEM NOMENCLATURE</b> PE 0303150F: <i>Global Command and Control System</i>		
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>
mechanisms. FY13 is the final year of development efforts for the program. Future support to sustain the X86 and other services will use Operations and Maintenance funding.  <b>FY 2014 Plans:</b> No FY 2014 funding.				
<b>Title:</b> GCCS support of Global Force Management  <b>Description:</b> This effort is to modify GCCS to consume authoritative force structure from GFM DI Org Servers, linking the identifiers to or replacing current identifiers and, as applicable, exposing the data in a net-centric fashion.  <b>FY 2012 Accomplishments:</b> Per FY12 GFM-DI guidance, modified GCCS to consume authoritative force structure from GFM DI Org Servers, linking the identifiers to or replacing current identifiers and, as applicable, exposing the data in a net-centric fashion.  <b>FY 2013 Plans:</b> Per FY13 GFM-DI guidance, further modifies GCCS to consume authoritative force structure from GFM DI Org Servers, linking the identifiers to or replacing current identifiers and, as applicable, exposing the data in a net-centric fashion. Future related work to maintain and sustain the GCCS to GFM interfaces will use Operations and Maintenance funding.  <b>FY 2014 Plans:</b> No FY 2014 funding.		0.123	0.650	0.000
<b>Title:</b> Program Management Administration (PMA)  <b>Description:</b> Program Management Administration (PMA) funding supports engineering and technical development, and implementation activities, along with acquisition support efforts.  <b>FY 2012 Accomplishments:</b> GCCS-AF (I) Program Management Administration (PMA) funding support acquisition support services, supplies and Equipment, etc. The costs are included in the GCCS-AF (I) PMA.  <b>FY 2013 Plans:</b> GCCS-AF (I) Program Management Administration (PMA) funding support acquisition support services, supplies and Equipment, etc. The costs are included in the GCCS-AF (I) PMA.  <b>FY 2014 Plans:</b>		0.137	0.393	0.000

# UNCLASSIFIED

<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2014 Air Force										<b>DATE:</b> April 2013		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>					<b>R-1 ITEM NOMENCLATURE</b> PE 0303150F: <i>Global Command and Control System</i>							
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>										<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014</b>
No FY 2014 funding.												
<b>Accomplishments/Planned Programs Subtotals</b>										2.433	4.316	0.000
<b>D. Other Program Funding Summary (\$ in Millions)</b>												
<b>Line Item</b>	<b>FY 2012</b>	<b>FY 2013</b>	<b>FY 2014 Base</b>	<b>FY 2014 OCO</b>	<b>FY 2014 Total</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	
• OPAF: BA07: Line Item # 834040: <i>AF Global Command &amp; Control Sys</i>	13.906	15.829	13.559		13.559	12.179	12.460	11.897	12.111	Continuing	Continuing	
<b>Remarks</b>												
<b>E. Acquisition Strategy</b>												
GCCS-AF is developed and fielded using a spiral acquisition approach, synchronized with Common Operating Environment (COE) and compliant with the GCCS-Joint (GCCS-J) baseline. All deployment of GCCS-AF capabilities are synchronized with the GCCS-J program fielding schedule, which is led by DISA. The GCCS-AF program is actively supporting DOD planning for transition of functionality to DOD's emerging next generation joint C2 enabler.												
<b>F. Performance Metrics</b>												
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.												

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2014 Air Force</b>												<b>DATE:</b> April 2013			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>						<b>R-1 ITEM NOMENCLATURE</b> PE 0303150F: <i>Global Command and Control System</i>						<b>PROJECT</b> 674667: <i>Global Command and Control System - AF</i>			
<b>Product Development (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Client/Core Upgrade	C/FFP	Northrup Grumman Information Technology:McLean, VA	-	1.668	Jul 2012	0.000		0.000		-		0.000	Continuing	Continuing	1.668
Client/Core Upgrade Phase 2	C/TBD	TBD:TBD,	-	0.000		2.968	Jul 2013	0.000		-		0.000	Continuing	Continuing	2.968
<b>Subtotal</b>			0.000	1.668		2.968		0.000		0.000		0.000			4.636
<b>Support (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Systems Engineering Support	C/CPAF	Mitre / ESC:Hanscom AFB, MA	-	0.410	Nov 2011	0.711	Nov 2012	0.000		-		0.000	Continuing	Continuing	1.121
Miscellaneous	Various	Various:Various,	-	0.118		0.132		0.000		-		0.000	Continuing	Continuing	0.250
<b>Subtotal</b>			0.000	0.528		0.843		0.000		0.000		0.000			1.371
<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Test and Accreditation	MIPR	Various:Various,	-	0.100	Nov 2011	0.112	Nov 2012	0.000		-		0.000	Continuing	Continuing	0.212
<b>Subtotal</b>			0.000	0.100		0.112		0.000		0.000		0.000			0.212
<b>Management Services (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013</b>		<b>FY 2014 Base</b>		<b>FY 2014 OCO</b>		<b>FY 2014 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>All Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Program Management Analysis (PMA) Program	Various	various:,	-	0.137	Oct 2011	0.393	Oct 2012	0.000		-		0.000	Continuing	Continuing	0.530

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2014 Air Force												<b>DATE:</b> April 2013			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>						<b>R-1 ITEM NOMENCLATURE</b> PE 0303150F: <i>Global Command and Control System</i>				<b>PROJECT</b> 674667: <i>Global Command and Control System - AF</i>					

Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost To Complete	Total Cost	Target Value of Contract
Management Office (PMO) Support																
<b>Subtotal</b>			0.000	0.137		0.393		0.000		0.000		0.000				0.530

			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			0.000	2.433		4.316		0.000		0.000		0.000			6.749

**Remarks**

# UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Air Force

DATE: April 2013

## APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force  
BA 7: Operational Systems Development

## R-1 ITEM NOMENCLATURE

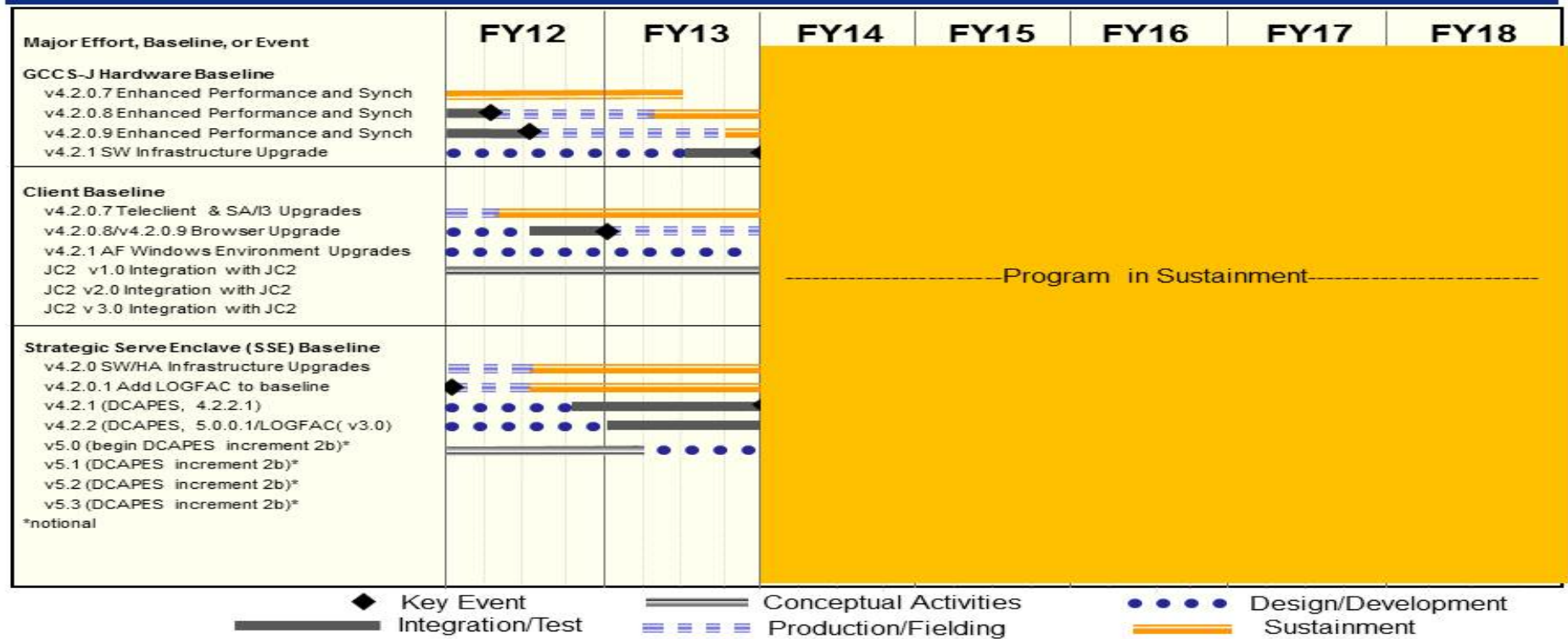
PE 0303150F: Global Command and Control System

## PROJECT

674667: Global Command and Control System - AF



# Global Command and Control System - Air Force (Infrastructure)



FY14 PB

Depicted by installation/production flow

As of 31 Dec 2012

# UNCLASSIFIED

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Air Force			<b>DATE:</b> April 2013
<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0303150F: <i>Global Command and Control System</i>	<b>PROJECT</b> 674667: <i>Global Command and Control System - AF</i>	

## Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
--- v4.2.0.8 Enhanced Performance and Synch Integration and Prod	2	2012	2	2013
--- v4.2.0.9 Enhanced Performance and Synch Integration and Prod	3	2012	3	2013
---v4.2.1 SW Infrastructure Upgrade Design and Integration	1	2012	4	2013
--- v4.2.0.7 Teleclient & SA/I3 Upgrades Fielding	1	2012	2	2012
--- v4.2.0.8/v4.2.0.9 Browser Upgrade Design, Integrate, Field	1	2012	4	2013
--- v4.2.1 AF Windows Environment Upgrades Design Develop	1	2012	4	2013
--- JC2 v1.0 Integration with JC2 Conceptual Activities	1	2012	4	2013
--- v4.2.0 SW/HA Infrastructure Upgrades Production	1	2012	3	2012
--- v4.2.0.1 Add LOGFAC to baseline Production	1	2012	3	2012
--- v4.2.1 (DCAPES, 4.2.2.1) Design and Integration	1	2012	4	2013
--- v4.2.2 (DCAPES, v5.0.0.1/LOGFAC, v3.0) Design and Integration	1	2012	4	2013
--- v5.0 (begins DCAPES, Increment 2b) Concept and Design	1	2012	4	2013