

UNCLASSIFIED

PE NUMBER: 0303150F

PE TITLE: WWMCCS/GLOBAL COMMAND & CONTROL SYSTEM

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2004
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0303150F WWMCCS/GLOBAL COMMAND & CONTROL SYSTEM
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Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	3.218	3.500	3.611	3.622	3.694	3.768	3.756	Continuing	TBD
4667 Global Command and Control System - AF	3.218	3.500	3.611	3.622	3.694	3.768	3.756	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

The Global Command and Control System (GCCS) is the designated Command and Control (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 Operating Environment (COE), and has an end objective to eliminate stovepiped systems. The Global Command and Control System-Air Force program provides C2, intelligence, surveillance, reconnaissance and operational information for the Joint Force Air Component Commander (JFACC) and the Air and Space Operations Center (AOC) 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 developing four of the modules that will make up the COE, and integration of Air Force unique applications with the COE. Integration efforts will be directed towards future aerospace C2 concepts supporting requirements for the AOC, including intelligence, surveillance, and reconnaissance and intended to automate operational systems with an end objective for saving manpower and reducing costs. GCCS-AF will add integrated applications satisfying requirements for the Common Operational Picture (COP), Single Integrated Air Picture (SIAP), Family of Interoperable Operational Pictures (FIOP), Joint Defensive Planner (JDP), Joint Targeting Toolbox (JTT), and Deliberate Crisis Action Planning and Execution Segment (DCAPES). The COP will integrate data to provide the SIAP and the FIOP.

This effort is Budget Activity 7, Operational System Development, because the program develops and implements software, and engineers and implements communications for an integrated operational communications and computer network that will eventually evolve to the Global Information Grid and the Joint Command and Control (JC2) system.

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget	3.565	3.547	3.611
(U) Current PBR/President's Budget	3.218	3.500	3.611
(U) Total Adjustments	-0.347	-0.047	
(U) Congressional Program Reductions	-0.038	-0.017	
Congressional Rescissions	-0.274	-0.030	
Congressional Increases	0.000		
Reprogrammings	-0.035		
SBIR/STTR Transfer		0.000	

(U) Significant Program Changes:

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BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0303150F WWMCCS/GLOBAL COMMAND & CONTROL SYSTEM

N/A

Exhibit R-2a, RDT&E Project Justification

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February 2004

BUDGET ACTIVITY 07 Operational System Development				PE NUMBER AND TITLE 0303150F WWMCCS/GLOBAL COMMAND & CONTROL SYSTEM			PROJECT NUMBER AND TITLE 4667 Global Command and Control System - AF		
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
4667 Global Command and Control System - AF	3.218	3.500	3.611	3.622	3.694	3.768	3.756	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

The Global Command and Control System (GCCS) is the designated Command and Control (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 Operating Environment (COE), and has an end objective to eliminate stovepiped systems. The Global Command and Control System-Air Force program provides C2, intelligence, surveillance, reconnaissance and operational information for the Joint Force Air Component Commander (JFACC) and the Air and Space Operations Center (AOC) 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 developing four of the modules that will make up the COE, and integration of Air Force unique applications with the COE. Integration efforts will be directed towards future aerospace C2 concepts supporting requirements for the AOC, including intelligence, surveillance, and reconnaissance and intended to automate operational systems with an end objective for saving manpower and reducing costs. GCCS-AF will add integrated applications satisfying requirements for the Common Operational Picture (COP), Single Integrated Air Picture (SIAP), Family of Interoperable Operational Pictures (FIOP), Joint Defensive Planner (JDP), Joint Targeting Toolbox (JTT), and Deliberate Crisis Action Planning and Execution Segment (DCAPES). The COP will integrate data to provide the SIAP and the FIOP.

This effort is Budget Activity 7, Operational System Development, because the program develops and implements software, and engineers and implements communications for an integrated operational communications and computer network that will eventually evolve to the Global Information Grid and the Joint Command and Control (JC2) system.

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Continue Integration and Development of Future Aerospace C2 Concepts, Crisis Action Planning Evolution	0.850	0.900	0.950
(U) Continue Integration of Air Force Capabilities into GCCS (COP, SIAP, FIOP, DCAPES, ATO Reader, Joint Defensive Planner (JDP), Joint Targeting Toolbox (JTT)), Prototype Software Development, GCCS Migration Support	1.168	1.300	1.311
(U) Continue COE Development and Distribution	1.200	1.300	1.350
(U) Total Cost	3.218	3.500	3.611

Exhibit R-2a, RDT&E Project Justification

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

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E									TBD
(U) Other APPN									TBD
(U) Other Procurement, AF (3080)	27.672	23.283	17.324	17.021	17.361	17.705	18.050	Continuing	TBD

(U) **D. Acquisition Strategy**

Electronic Systems Center (ESC) Hanscom AFB, MA manages the integration and infrastructure of the Air Force Global Command and Control Systems developed/fielded using spiral acquisition approaches. Common Operating Environment (COE) and GCCS-Joint compliance is performed by ESC to support Air Force contribution to the Joint Services and to support the separate Air Force mission applications that operate in the COE.

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Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
07 Operational System Development				0303150F WWMCCS/GLOBAL COMMAND & CONTROL SYSTEM				4667 Global Command and Control System - AF				
(U) Cost Categories	<u>Contract Method</u>	<u>Performing Activity &</u>	<u>Total</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>Cost to</u>	<u>Total</u>	<u>Target</u>
(Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>& Type</u>	<u>Location</u>	<u>Prior to FY</u>	<u>2003</u>	<u>2003</u>	<u>2004</u>	<u>2004</u>	<u>2005</u>	<u>2005</u>	<u>Complete</u>	<u>Cost</u>	<u>Value of</u>
			<u>2003</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>			<u>Contract</u>
			<u>Cost</u>		<u>Date</u>		<u>Date</u>		<u>Date</u>			
(U) <u>Product Development</u>												
Miscellaneous	SS/BOA		0.265	0.168	Oct-02	0.200	Oct-03	0.300	Oct-04	0.000	0.933	
											0.000	
WINxB	SS/FFP	Northrop Gruman ITS/Herndon, VA	0.000	1.400	Oct-02	0.700	Oct-03	0.800	Oct-04	Continuing	TBD	
DCAPES*	SS/FFP		8.776							0.000	8.776	
Subtotal Product Development			9.041	1.568		0.900		1.100		Continuing	TBD	0.000
Remarks:	*In FY 00 DCAPES funding was transferred to PE 27438											
(U) <u>Support</u>												
Information Technology Services Program (ITSP)	SS/FFP	Multiple	1.909	0.200	Oct-02	0.300	Oct-03	0.300	Oct-04	Continuing	TBD	
Miscellaneous SPO	SS/BOA	Multiple	0.623	0.250	Oct-02	0.600	Oct-03	0.411	Oct-04	Continuing	TBD	
Subtotal Support			2.532	0.450		0.900		0.711		Continuing	TBD	0.000
Remarks:												
(U) <u>Management</u>												
FFRDC	SS/FFP	Mitre/ESC	7.616	1.200	Oct-02	1.700	Oct-03	1.800	Oct-04	Continuing	TBD	
Subtotal Management			7.616	1.200		1.700		1.800		Continuing	TBD	0.000
Remarks:												
(U) Total Cost			19.189	3.218		3.500		3.611		Continuing	TBD	0.000

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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2004
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(U) <u>Schedule Profile</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) GCCS-AF v3.7: Development/Integration/Testing	1-4Q		
(U) GCCS-AF v3.7: Accreditation	2-4Q		
(U) GCCS-AF v3.7: Fielding	4Q	1Q	
(U) GCCS-AF v3.7.1: Development/Integration/Testing	2-4Q		
(U) GCCS-AF v3.7.1: Accreditation	4Q		
(U) GCCS-AF v3.7.1: Fielding		1Q	
(U) GGCS-AF v4.0a: Development/Integration/Testing	1-4Q	1Q	
(U) GCCS-AF v4.0a: Accreditation	4Q	1Q	
(U) GCCS-AF v4.0a: Fielding		1Q	
(U) GCCS-AF v4.0b: Development/Integration/Testing	1-4Q	1Q	
(U) GCCS-AF v4.0b: Accreditation	4Q	1-2Q	
(U) GCCS-AF v4.0b: Fielding		4Q	1Q
(U) GCCS-AF v4.0b: Sustainment			1-4Q