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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2013 Air Force **DATE:** February 2012

<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 0303141F: <i>Global Combat Support System (GCSS)</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	3.376	0.449	6.512	-	6.512	0.930	5.577	5.188	5.002	Continuing	Continuing
675046: <i>Systems Engineering &amp; Integration</i>	3.376	0.449	6.512	-	6.512	0.930	5.577	5.188	5.002	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

## Note

Global Combat Support System-Air Force (GCSS-AF) will provide the warfighter and supporting elements with timely, accurate, and trusted Agile Combat Support (ACS) information. This information will have the appropriate level of security needed for the Air and Space Expeditionary Forces (AEF) to execute the Air Force mission throughout the full spectrum of military operations.

The GCSS-AF program modernizes, consolidates, develops, and integrates Air Force and Department of Defense combat support information systems. The modernized systems are being developed in compliance with and hosted on the Network Centric Enterprise Systems, replacing the Defense Information Infrastructure (DII) Common Operating Environment (COE). The modernized systems is implemented and sustained worldwide and supports both wartime and peacetime requirements using hardware, software, and communications capabilities available from standard open systems government contracts and communications infrastructure programs. In this manner, GCSS-AF avoids added costs, removes business processing inefficiencies, reduces deployment footprint, and improves the speed with which information flows.

Activities also include studies and analysis to support both current program planning and execution and future program planning and continued modifications, tests, and evaluations critical to avoid technical obsolescence of this crucial infrastructure.

## A. Mission Description and Budget Item Justification

Global Combat Support System-Air Force (GCSS-AF) will provide the warfighter and supporting elements with timely, accurate, and trusted Agile Combat Support (ACS) information. This information will have the appropriate level of security needed for the Air Expeditionary Forces (AEF) to execute the Air Force mission throughout the full spectrum of military operations. The GCSS-AF program modernizes, consolidates, develops, and integrates Air Force and Department of Defense combat support information systems.

The modernized system is being developed in compliance with and hosted on the Net-Centric Enterprise Services (NCES), DISA's solution to connects people and systems that have information (data and services) with those who need information, replacing the DII COE. The modernized system is implemented and sustained worldwide and supports both wartime and peacetime requirements using hardware, software, and communications capabilities available from standard open systems government contracts and communications infrastructure programs.

In this manner, GCSS-AF avoids added costs, removes business processing inefficiencies, reduces deployment footprint, and improves the speed with which information flows. GCSS-AF also supports the Global Force Management - Data Initiative (GFM-DI) as a hosted application within its common infrastructure.

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Activities also include: Studies and analysis to support both current program planning and execution and future program planning and continued test and evaluation critical to avoid technical obsolescence of this critical infrastructure. Additional development activities for Platform as a Service (PAAS) and Software as a Service (SAAS) are directly aligned with GCSS-AF's service oriented framework and the movement of infrastructure and services to a Cloud Computer Environment (CCE).								
Funding will also support development and systems engineering activities, to include (1) facilitating improvements to system effectiveness through efficient segregation of mission capabilities (apps, services, applications) from underlying networking, middleware and computing infrastructures by using common architecture, standards, and services, and (2) employing a rapid/agile IT acquisition process to effectively deliver capabilities to the warfighter.								
This program is in Budget Activity 7, Operational System Development. These budget activities include development efforts to upgrade systems currently fielded or having approval for full rate production and anticipate production funding in the current or subsequent fiscal year.								
B. Program Change Summary (\$ in Millions)		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total		
Previous President's Budget		3.393	0.449	0.448	-	0.448		
Current President's Budget		3.376	0.449	6.512	-	6.512		
Total Adjustments		-0.017	-	6.064	-	6.064		
• Congressional General Reductions		-	-					
• Congressional Directed Reductions		-	-					
• Congressional Rescissions		-	-					
• Congressional Adds		-	-					
• Congressional Directed Transfers		-	-					
• Reprogrammings		-	-					
• SBIR/STTR Transfer		-	-					
• Other Adjustments		-0.017	-	6.064	-	6.064		
Change Summary Explanation								
FY11 Congressional General Reduction of 0.017M in Adjustment Row.								
FY13 funding increase for Enterprise Protection Risk Management (EPRM) and to support movement of services and infrastructure to a Cloud Computing Environment (CCE).								
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Title: Test & Evaluation				3.376	-	-	-	-

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
<p><b>Description:</b> Integration Framework (IF) Development, Engineering Support, Test and Evaluation, Program Management, and Operations directly related to Test and Evaluation efforts.</p> <p><b>FY 2011 Accomplishments:</b> Extended test and evaluation efforts to exploit Continuity of Operations (COOP) capability and better balance GCSS-AF loads. Continued test and evaluation of COTS (Commercial Off The Shelf) products as vendors change their supported baseline and drive changes to the currently sustained increment of GCSS-AF.</p> <p><b>FY 2012 Plans:</b> N/A</p> <p>N/A</p> <p><b>FY 2013 Base Plans:</b> N/A</p> <p><b>FY 2013 OCO Plans:</b> N/A</p>						
<p><b>Title:</b> Consume Authoritative Force Structure</p> <p><b>Description:</b> Progressive modification of GCSS-AF (and its supported systems) 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. This effort may include associated testing and evaluation as well as potential engineering of COTS-based solutions.</p> <p><b>FY 2011 Accomplishments:</b> N/A</p> <p><b>FY 2012 Plans:</b> Provides for the progressive modification of GCSS-AF (and its supported systems) 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. This effort may include associated testing and evaluation as well as potential engineering of COTS-based solutions.</p> <p><b>FY 2013 Base Plans:</b></p>		-	0.449	0.448	-	0.448

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Per FY13 guidance, will continue the progressive modification of GCSS-AF (and its supported systems) 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. This effort may include associated testing and evaluation as well as potential engineering of COTS-based solutions.  FY 2013 OCO Plans: N/A						
Title: Develop Enterprise Protection Risk Management (EPRM)  Description: N/A  FY 2011 Accomplishments: N/A  FY 2012 Plans: N/A  FY 2013 Base Plans: Will progressively modify GCSS-AF (and its supported systems) to provide an automated risk management tool that integrates assessment and analysis from an enterprise level, address increased threat to Air Force data, and revamp stove-piped responses to attacks. The Enterprise Protection Risk Management (EPRM) will further provide information security and assurances measures to mitigate unauthorized removal of information from the network. This effort may include associated testing and evaluation as well as potential engineering of COTS-based solutions.  FY 2013 OCO Plans: N/A		-	-	1.064	-	1.064
Title: Cloud Computing Environment (CCE)  Description: Studies and Analysis, Engineering and Development to implement a Cloud Computing Environment (CCE) to support the net-centric concepts, expose authoritative data sources, increase agility, and reduce infrastructure costs.  FY 2011 Accomplishments:		-	-	5.000	-	5.000

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C. Accomplishments/Planned Programs (\$ in Millions)								FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
N/A												
FY 2012 Plans: N/A												
FY 2013 Base Plans: Establish an Architecture Services and Integration Team to formalize organizational and process change with a focus on Architecture and Standards, Managed Services and Enterprise Licenses & Services. These activities will result in the development of the initial, technically-detailed USAF Implementation Baseline and associated platform-specific Profiles and begin the establishment of the Integration Test Lifecycle Capability (ITLC).												
FY 2013 OCO Plans: N/A												
Accomplishments/Planned Programs Subtotals								3.376	0.449	6.512	-	6.512
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost	
• O&M, PE 0303141F, Global Com...: Sustainment of Shared Infrastructure	87.111	94.629	68.134	0.000	68.134	73.188	76.155	77.565	79.964	Continuing	Continuing	
• OPAF, PE 0303141F, Global Combat...: HW/SW/License Procurement	3.645	0.000	4.736	0.000	4.736	3.038	1.346	0.000	0.000	Continuing	Continuing	
E. Acquisition Strategy												
Place task orders against the fourth quarter FY11 awarded, \$791,000,000 maximum, firm-price-incentive-fee, firm-fixed-price, cost-plus-fixed-fee, cost-reimbursable contract to provide a set of over 70 reusable, common services to Air Force combat support automated information systems based on integration of commercial-off-the-shelf, free and open source software, and government-off-the-shelf software components. ESC/HIIK, Maxwell Air Force Base, Alabama is the contracting activity (FA8771-11-D-1006) and Lockheed Martin Corp., King of Prussia, Pennsylvania is the prime contractor.												
F. 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-4, RDT&E Schedule Profile: PB 2013 Air Force		DATE: February 2012
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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2013 Air Force			<b>DATE:</b> February 2012
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Major Milestones and Tasks	1	2011	4	2017
New Contract Award	4	2011	4	2011
GCSS-AF/Lockheed Martin, Bridge, and Option(s)	1	2011	1	2012
Core Services Integration and Framework I	1	2011	1	2012
Test and Evaluation I	1	2011	1	2012
SPO Support I	1	2011	1	2012
Tech Refreshment I	1	2011	1	2012
GCSS-AF II Integration	4	2011	4	2017
Core Services Integration and Framework II	4	2011	4	2017
Test and Evaluation II	4	2011	4	2017
SPO Support II	4	2011	4	2017
Tech Refreshment II	4	2011	4	2017
Overlap of Bridge Options and New Contract	4	2011	1	2012
Global Force Management Data Initiative	1	2012	4	2012
Enterprise Protection Risk Management	1	2013	4	2016
Cloud Computing Environment	1	2013	4	2017