

**UNCLASSIFIED**

PE NUMBER: 0604740F

PE TITLE: Integrated Command & Control Applications

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>May 2009</b>
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<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>	<b>PE NUMBER AND TITLE</b> <b>0604740F Integrated Command &amp; Control Applications</b>
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	27.804	9.704	0.010	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
2523 Product Lines	0.330	0.130	0.010	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
2524 Reuse and Component Support	27.474	9.574	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

**(U) A. Mission Description and Budget Item Justification**

The goal of the Integrated Command & Control Applications (IC2A) program is to reduce the development time, costs, and risks associated with the acquisition and development of an enterprise oriented Command & Control (C2) capability by defining a reference architecture to enhance common application use and reuse.

Project 2523, Product Lines provides program management of the IC2A program.

Project 2524, Reuse and Component Support (RCS) identifies, develops, tests, and provides re-useable software components and products to the IC2A program and other programmed systems of record. RCS minimizes development cost and time by defining a Command & Control (C2) architecture approach consistent with net-centric principles and guidance that ensures compliance and interoperability using standards based service oriented architecture components. The use of web services as a common product line on a C2 reference architecture improves software quality, interoperability and reliability while reducing fielding times and overall life cycle costs enabling the Air Force to achieve a net-centric operations and warfare capability.

This program is categorized as Budget Activity (BA) 5 to reflect a program in System Demonstration and Development (SD&D).

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget	26.593	0.177	0.182
(U) Current PBR/President's Budget	27.804	9.704	0.010
(U) Total Adjustments	1.211	9.527	
(U) Congressional Program Reductions		-0.073	
Congressional Rescissions			
Congressional Increases		9.600	
Reprogrammings	1.950		
SBIR/STTR Transfer	-0.739		

**(U) Significant Program Changes:**

FY09: Congressional Increases by line number:

- R-77, Distributed Mission Interoperability Toolkit, \$1.6M

- R-77, ASSET eWing and Data Fusion Technology Integration, \$4M

- Technical adjustment redirected the Command and Control Service Level Management (C2SLM) Program, \$4M increase, from Program Element 0303150F, Global

Exhibit R-2, RDT&E Budget Item Justification

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BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

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Command and Control System, R-164 to R-77

FY10: Changes in President's Budget due to reprogramming to meet higher Air Force priorities.

**Exhibit R-2a, RDT&E Project Justification**

DATE  
**May 2009**

BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>					PE NUMBER AND TITLE <b>0604740F Integrated Command &amp; Control Applications</b>			PROJECT NUMBER AND TITLE <b>2523 Product Lines</b>		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
2523 Product Lines	0.330	0.130	0.010	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

**(U) A. Mission Description and Budget Item Justification**

The Product Lines project provides program management support of the Integrated Command & Control Applications (IC2A) program.

Program management is the process whereby a single leader exercises centralized authority and responsibility for planning, organizing, staffing, controlling, and leading the combined efforts of participating/assigned civilian and military personnel and organizations, for the management of a specific defense acquisition program or programs, throughout the system life cycle.

This program is categorized as Budget Activity (BA) 5 to reflect a program in System Demonstration and Development (SD&D).

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Program management support	0.330	0.130	0.010
(U) Total Cost	0.330	0.130	0.010

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U) Not applicable										

**(U) D. Acquisition Strategy**

All major contracts were awarded after full and open competition.

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**Exhibit R-3, RDT&E Project Cost Analysis**

DATE

**May 2009**

BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
<b>05 System Development and Demonstration (SDD)</b>				<b>0604740F Integrated Command &amp; Control Applications</b>					<b>2523 Product Lines</b>			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
Subtotal Product Development			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Support</u>												
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Test &amp; Evaluation</u>												
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Management</u>												
Program Office Support	PASS/ETA SS	ESC Hanscom AFB, MA	0.000	0.330	Oct-07	0.130	Oct-08	0.010	Oct-09	Continuing	TBD	TBD
Subtotal Management			0.000	0.330		0.130		0.010		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			0.000	0.330		0.130		0.010		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

May 2009

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604740F Integrated Command & Control Applications

PROJECT NUMBER AND TITLE

2523 Product Lines



# Product Lines Schedule

	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
Program Management Support								



Concept activities



Design / development



Integration / test



Production / fielding



Pre-Production



Key events

**PB10 R-Docs**

Depicted by installation/production flow

1

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<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>	DATE <b>May 2009</b>
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<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>	<b>PE NUMBER AND TITLE</b> <b>0604740F Integrated Command &amp; Control Applications</b>	<b>PROJECT NUMBER AND TITLE</b> <b>2523 Product Lines</b>
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<b>(U) <u>Schedule Profile</u></b>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
<b>(U) Program management support</b>	1-4Q	1-4Q	1-4Q

**Exhibit R-2a, RDT&E Project Justification**

DATE  
**May 2009**

BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>					PE NUMBER AND TITLE <b>0604740F Integrated Command &amp; Control Applications</b>			PROJECT NUMBER AND TITLE <b>2524 Reuse and Component Support</b>		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
2524 Reuse and Component Support	27.474	9.574	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

**(U) A. Mission Description and Budget Item Justification**

The Reuse and Component Support (RCS) project identifies, develops, tests and provides reusable software components and products to the Integrated Command and Control Applications (IC2A) program and to other programmed systems of record.

For Fiscal Year 2008 and 2009, the software architecture products developed by this project form vital components and provide a pre-defined reference architecture which is the foundation of the Department of Defense (DoD) enterprise Command & Control (C2) capability. All product lines and components are based on net-centric principles, service oriented architecture, and Core Enterprise Services. These efforts ensure that components and systems are developed with a view of operating within a C2 enterprise instead of a stovepipe functionality. Their reference architecture based designs and tested software components reduce development costs, risks and time for the user. New technologies, capabilities, and incremental developments are assessed and integrated into the architecture and components design as part of the product line development process to minimize any impact to the user.

The RCS project develops reusable software components based on Service Oriented Architectures and Web Services that enables the Air Force to achieve a net-centric operations and warfare capability.

This program is categorized as Budget Activity (BA) 5 to reflect a program in System Demonstration and Development (SD&D).

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

	FY 2008	FY 2009	FY 2010
(U) Distributed Mission Interoperability Toolkit (DMIT)	3.834	1.600	0.000
(U) Enterprise Services for Reach Back Capabilities (ESRBC)	2.862	0.000	0.000
(U) Airborne Web Services (AWS) Spiral 3	0.800	0.000	0.000
(U) Global Awareness Presentation System (GAPS) for USSTRATCOM	2.261	0.000	0.000
(U) Asset/Data Fusion	3.832	3.987	0.000
(U) Command and Control Service Level Management (C2SLM)	7.712	3.987	0.000
(U) Program Engineering Interoperability Framework (PEIF)	1.491	0.000	0.000
(U) Medical Data Storage and Retrieval System (MEDSTARS)	1.491	0.000	0.000
(U) net-CDS Dashboard	1.700	0.000	0.000
(U) TPMM/Stage Gating	0.400	0.000	0.000
(U) Research Visualization Facility (RVF)	1.091	0.000	0.000
(U) Total Cost	27.474	9.574	0.000

Exhibit R-2a, RDT&E Project Justification

DATE

May 2009

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604740F Integrated Command & Control Applications

PROJECT NUMBER AND TITLE

2524 Reuse and Component Support

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

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							

(U) Not applicable

(U) D. Acquisition Strategy

All major contracts for Reuse and Component Support development will be awarded after full and open competition.

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**Exhibit R-3, RDT&E Project Cost Analysis**

DATE

**May 2009**

<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>	<b>PE NUMBER AND TITLE</b> <b>0604740F Integrated Command &amp; Control Applications</b>	<b>PROJECT NUMBER AND TITLE</b> <b>2524 Reuse and Component Support</b>
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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
<u>(U) Product Development</u>												
Distributed Mission Interoperability Toolkit (DMIT)	CPFF	Accenture, Pennsylvania	13.053	3.473	Mar-08	1.408	Feb-09			0.000	17.934	3.570
Enterprise Services for Reach Back Capabilities (ESRBC)	CPFF	Accenture, Pennsylvania	4.262	2.611	Jul-08					0.000	6.873	2.708
Airborne Web Services (AWS) Spiral 3	CPFF	SAIC, West Virginia	2.358	0.696	Jul-08					0.000	3.054	0.696
Global Awareness Presentation System for USSTRATCOM	CPFF	ProLogic, West Virginia	3.102	2.137	Feb-08					0.000	5.239	2.234
Asset/Data Fusion	CPFF	Fenwick, West Virginia	7.332	3.425	Mar-08	3.509	Feb-09			0.000	14.266	3.522
Command and Control Service Level Management (C2SLM)	CPFF	Accenture, Pennsylvania	7.200	6.958	Jul-08	3.509	Feb-09			0.000	17.667	7.056
Program Engineering Interoperability Framework (PEIF)	CPFF	Parametric Technology Corp, Mass	1.451	1.425	Feb-08					0.000	2.876	1.522
MEDSTARS	CPFF	ProLogic, West Virginia	1.451	1.425	Feb-08					0.000	2.876	1.522
net-CDS Dashboard	CPFF	Accenture, Pennsylvania		1.700	Aug-08					0.000	1.700	TBD
TPMM/Stage Gating	MIPR	USASMDC, Huntsville, ALA		0.150	Dec-08					0.000	0.150	TBD
Research Visualization Facility (RVF)	CPFF	University of Nevada Las Vegas, Nevada	1.104	1.068	Jul-08					0.000	2.172	1.104
Subtotal Product Development			41.313	25.068		8.426		0.000		0.000	74.807	TBD
Remarks:												
<u>(U) Support</u>												
Contractor Support	T&M	ESC Hanscom AFB, MA	3.318	2.406	Mar-08	1.148	Feb-09			0.000	6.872	2.438
Subtotal Support			3.318	2.406		1.148		0.000		0.000	6.872	2.438
Remarks:												
<u>(U) Test &amp; Evaluation</u>												
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
<u>(U) Management</u>											0.000	

R-1 Line Item No. 82

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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			
<b>05 System Development and Demonstration (SDD)</b>	<b>0604740F Integrated Command &amp; Control Applications</b>				<b>2524 Reuse and Component Support</b>			
Subtotal Management	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Remarks:								
(U) <u>Not applicable.</u>								
(U) Total Cost	44.631	27.474	9.574	0.000	0.000	81.679	TBD	
Remarks:								

Exhibit R-4, RDT&E Schedule Profile

DATE

May 2009

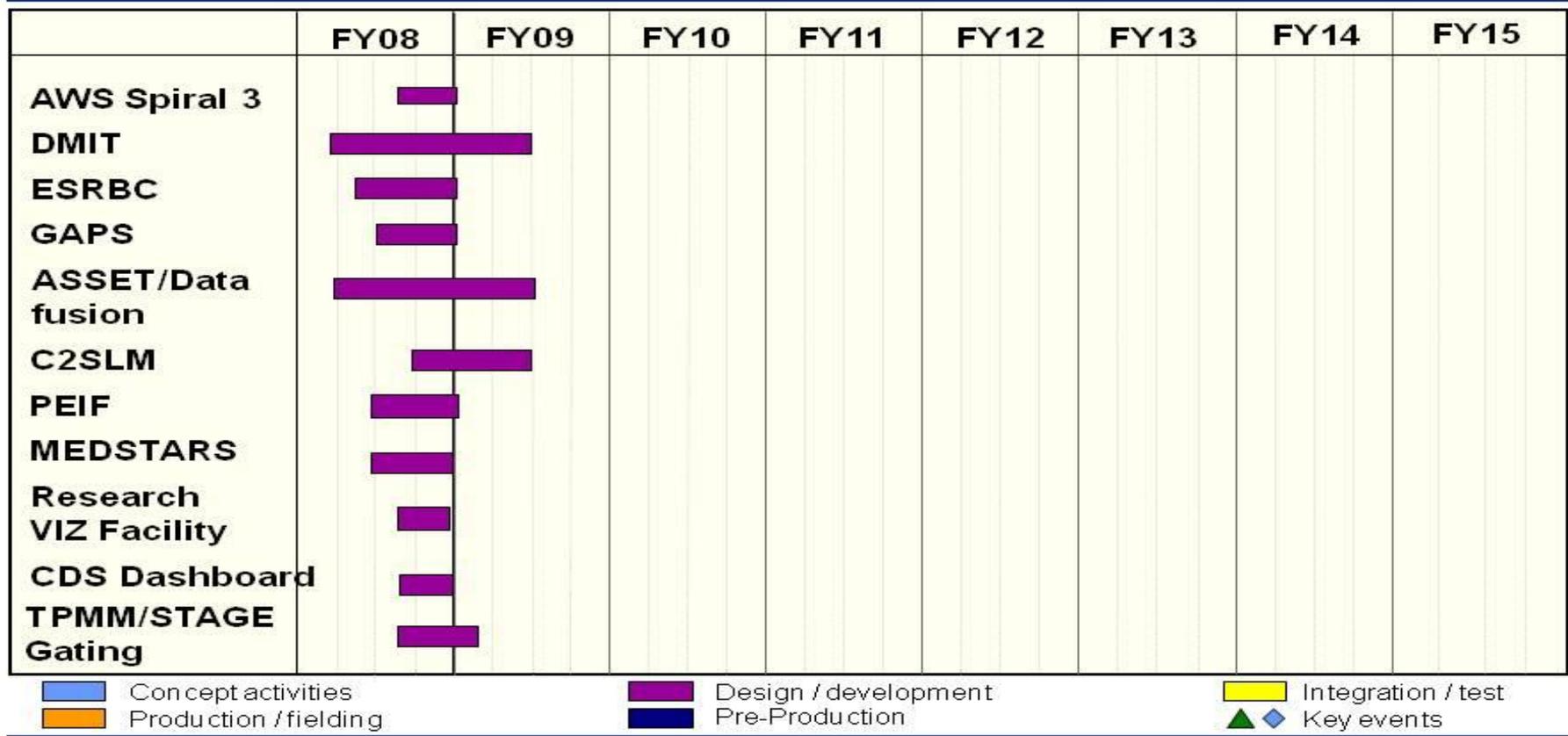
BUDGET ACTIVITY  
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE  
0604740F Integrated Command & Control Applications

PROJECT NUMBER AND TITLE  
2524 Reuse and Component Support



# Reuse Component Support Schedule



PB10 R-Docs

Depicted by in stallation/production flow

1

<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>	DATE <b>May 2009</b>
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<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>	<b>PE NUMBER AND TITLE</b> <b>0604740F Integrated Command &amp; Control Applications</b>	<b>PROJECT NUMBER AND TITLE</b> <b>2524 Reuse and Component Support</b>
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	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) <b><u>Schedule Profile</u></b>			
(U) AWS Spiral 3	4Q		
(U) DMIT	2-4Q	2Q	
(U) Enterprise Services for Reach Back Capabilities (ESRBC)	4Q		
(U) Global Awareness Presentation System (GAPS) for USSTRATCOM	2-4Q		
(U) ASSET/Data Fusion	2-4Q	2Q	
(U) C2SLM	4Q	2Q	
(U) Program Engineering Interoperability Framework (PEIF)	2-4Q		
(U) MEDSTARS	2-4Q		
(U) Research Visualization Facility (RVF)	4Q		