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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604740F: Integrated Command & Control Applications							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	9.700	6.910	0.010	0.000	0.010	0.010	0.010	0.010	0.010	Continuing	Continuing
652523: Product Lines	0.256	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.010	Continuing	Continuing
652524: Reuse and Component Support	9.444	6.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
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. This is accomplished via Congressional Earmarks identified in Project 2524.											
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).											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
3600: Research, Development, Test & Evaluation, Air Force		PE 0604740F: Integrated Command & Control Applications			
BA 5: Development & Demonstration (SDD)					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	9.704	0.010	0.000	0.000	0.000
Current President's Budget	9.700	6.910	0.010	0.000	0.010
Total Adjustments	-0.004	6.900	0.010	0.000	0.010
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		6.900			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	-0.004	0.000	0.010	0.000	0.010
Congressional Add Details (\$ in Millions, and Includes General Reductions)					
Project: 652524: Reuse and Component Support				FY 2009	FY 2010
Congressional Add: Distributed Mission Interoperability Toolkit (DMIT)				1.574	3.200
Congressional Add: Asset/Data Fusion/Program Increase				3.935	0.000
Congressional Add: Command and Control Service Level Management (C2SLM)				3.935	0.000
Congressional Add: User Defined Operational Picture				0.000	3.700
Congressional Add Subtotals for Project: 652524				9.444	6.900
Congressional Add Totals for all Projects				9.444	6.900
Change Summary Explanation					
FY10: changes between previous and current President's Budget due to Congressional increases.					

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604740F: <i>Integrated Command & Control Applications</i>				PROJECT 652523: <i>Product Lines</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
652523: <i>Product Lines</i>	0.256	0.010	0.010	0.000	0.010	0.010	0.010	0.010	0.010	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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).

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Program Management Support <i>FY 2009 Accomplishments:</i> In FY 2009: Contractor Advisory and Assistance Services (A&AS) and travel support for the Congressional programs. <i>FY 2010 Plans:</i> In FY 2010: Funding provides for Program Manager travel in support of Congressional funded programs.	0.256	0.010	0.010	0.000	0.010

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force							DATE: February 2010				
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>			R-1 ITEM NOMENCLATURE PE 0604740F: <i>Integrated Command & Control Applications</i>			PROJECT 652523: <i>Product Lines</i>					
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
<i>FY 2011 Base Plans:</i> In FY 2011: Funding will provide for Program Manager travel in support of Congressional funded programs.											
<i>FY 2011 OCO Plans:</i> In FY 2011 OCO: N/A											
Accomplishments/Planned Programs Subtotals						0.256	0.010	0.010	0.000	0.010	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE Not Provided (19297): <i>Activity Not Provided</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
D. Acquisition Strategy											
All major contracts were awarded after full and open competition.											
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 2011 Air Force											DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604740F: Integrated Command & Control Applications				PROJECT 652523: Product Lines					
Management Services (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
Program Office Support	Various/ Various	ESC Hanscom AFB, MA	0.256	0.010	Oct 2009	0.010	Oct 2010	0.000		0.010	Continuing	Continuing	Continuing
Subtotal			0.256	0.010		0.010		0.000		0.010			
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			0.256	0.010		0.010		0.000		0.010			
Remarks													
Total Prior Years Cost may include only FY 2009 data.													

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE


PE 0604740F: *Integrated Command & Control Applications*


PROJECT



652523: *Product Lines*

Product Lines Schedule

	FY09	FY10	FY11	FY12	FY13	FY14	FY15
Program Management Support							

 Concept activities
 Production / fielding

 Design / development
 Operations / sustainment

 Integration / test
 Key events

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604740F: <i>Integrated Command & Control Applications</i>	PROJECT 652523: <i>Product Lines</i>		

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Program management support	1	2009	4	2011

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604740F: <i>Integrated Command & Control Applications</i>				PROJECT 652524: <i>Reuse and Component Support</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
652524: <i>Reuse and Component Support</i>	9.444	6.900	0.000	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	0		

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.

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).

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

	FY 2009	FY 2010
Congressional Add: Distributed Mission Interoperability Toolkit (DMIT)	1.574	3.200

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604740F: <i>Integrated Command & Control Applications</i>	PROJECT 652524: <i>Reuse and Component Support</i>
B. Accomplishments/Planned Program (\$ in Millions)		
	FY 2009	FY 2010
<i>FY 2009 Accomplishments:</i> In FY 2009: Provided a service oriented architecture based communications, presence, and compression capability at the infrastructure level. <i>FY 2010 Plans:</i> In FY 2010: Provides a service oriented architecture based communications, presence, and compression capability at the infrastructure level.		
Congressional Add: Asset/Data Fusion/Program Increase <i>FY 2009 Accomplishments:</i> In FY 2009: Provided fused force protection sensor data via web services using the Service Oriented Architecture. <i>FY 2010 Plans:</i> In FY 2010: N/A	3.935	0.000
Congressional Add: Command and Control Service Level Management (C2SLM) <i>FY 2009 Accomplishments:</i> In FY 2009: Implemented Service Level Agreements through the use of Service Oriented Architecture. <i>FY 2010 Plans:</i> In FY 2010: N/A	3.935	0.000
Congressional Add: User Defined Operational Picture	0.000	3.700

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force							DATE: February 2010				
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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010				
<i>FY 2009 Accomplishments:</i> In FY 2009: N/A <i>FY 2010 Plans:</i> In FY 2010: Program Increase to fund Pro Logic, Inc. for net-centric enterprise efforts. Implemented Service Oriented Architecture. Visualization of airborne web services management.											
Congressional Adds Subtotals						9.444	6.900				
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE Not Provided (19552): <i>Activity Not Provided</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
D. Acquisition Strategy All major contracts for Reuse and Component Support development will be awarded after full and open competition.											
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 2011 Air Force											DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604740F: <i>Integrated Command & Control Applications</i>				PROJECT 652524: <i>Reuse and Component Support</i>					
Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
Asset/Data Fusion/ Program Increase	C/CPFF	Fenwick West Virginia	3.432	0.000		0.000		0.000		0.000	0.000	3.432	Continuing
Distributed Mission Interoperability Toolkit (DMIT)	C/CPFF	Accenture Pennsylvania	1.390	3.200	Mar 2010	0.000		0.000		0.000	0.000	4.590	Continuing
Command and Control Service Level Management (C2SLM)	C/CPFF	Accenture Pennsylvania	3.437	0.000		0.000		0.000		0.000	0.000	3.437	Continuing
User Defined Operational Picture	C/CPFF	Pro Logic West Virginia	0.000	3.700	Mar 2010	0.000		0.000		0.000	0.000	3.700	0.000
Subtotal			8.259	6.900		0.000		0.000		0.000	0.000	15.159	
Remarks													
Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
Contractor Support	Various/ Various	ESC Hanscom AFB, MA (AA&S)	0.547	0.000		0.000		0.000		0.000	0.000	0.547	Continuing
No text provided	FFRDC	MITRE Corportion Bedford MA	0.638	0.000		0.000		0.000		0.000	0.000	0.638	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force											DATE: February 2010		
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Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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			1.185	0.000		0.000		0.000		0.000	0.000	1.185	
Remarks													
Management Services (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
Not applicable.	TBD/TBD	No text provided No text provided	0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Subtotal			0.000	0.000		0.000		0.000		0.000	0.000	0.000	0.000
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			9.444	6.900		0.000		0.000		0.000	0.000	16.344	
Remarks Total Prior Years Cost may include only FY 2009 data.													

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 5: Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

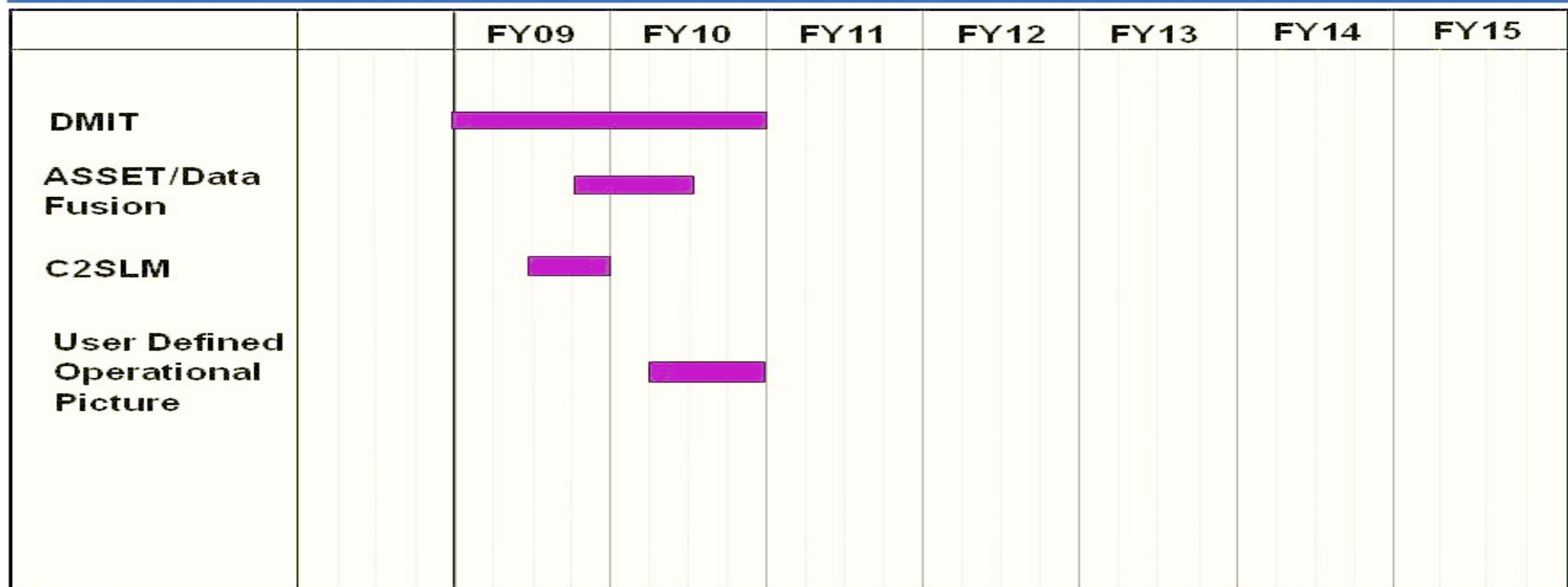
PE 0604740F: Integrated Command & Control Applications

PROJECT

652524: Reuse and Component Support



Reuse Component Support Schedule



Concept activities
 Production / fielding

Design / development
 Pre-Production

Integration / test
 Key events

PB10 R-Docs

Depicted by installation/production flow

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010
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Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
DMIT	1	2009	4	2010
ASSET/Data Fusion	4	2009	2	2010
C2SLM	3	2009	4	2009
User Defined Operational Picture	2	2010	4	2010

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