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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Office of Secretary Of Defense **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305600D8Z: <i>International Intelligence Technology and Architectures</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	1.376	1.416	1.444	-	1.444	1.473	1.519	1.558	1.602	Continuing	Continuing
997: <i>International Intelligence Technology and Architectures</i>	1.376	1.416	1.444	-	1.444	1.473	1.519	1.558	1.602	Continuing	Continuing

A. Mission Description and Budget Item Justification

Provides for the identification, migration and integration of existing and advanced multinational and bi-lateral international intelligence information cloud based advanced analytics, algorithmic and data fusion technologies into an integrated US, NATO, and coalition based intelligence service oriented architecture / data repository such as the U.S. and NATO Battlefield Information Collection and Exploitation System(s) (BICES). Provides for rapid implementation of U.S. BICES capabilities into the Distributed Common Ground/Surface System-Army and the Defense Intelligence Information Enterprise (DI2E) intelligence based decision applications and data mechanisms in support of Under Secretary of Defense (Intelligence)'s mission to ensure necessary intelligence information is being acquired, analyzed, and disseminated rapidly amongst our allies and coalition partners. Develop Cloud capabilities for US BICES.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	1.378	1.416	1.446	-	1.446
Current President's Budget	1.376	1.416	1.444	-	1.444
Total Adjustments	-0.002	-	-0.002	-	-0.002
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Department adjustment	-0.002	-	-0.002	-	-0.002

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Office of Secretary Of Defense **DATE:** February 2011

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
997: <i>International Intelligence Technology and Architectures</i>	1.376	1.416	1.444	-	1.444	1.473	1.519	1.558	1.602	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Provides for the migration and integration of existing and advanced multinational and bi-lateral international intelligence information cloud based advanced analytics, algorithmic and data fusion technologies into an integrated US, NATO, and coalition based intelligence service oriented architecture / data repository such as the U.S. and NATO Battlefield Information Collection and Exploitation System(s). Provides for rapid implementation of U.S. BICES capabilities into the Distributed Common Ground System-Army and the Defense Intelligence Information Enterprise (DI2E) intelligence based decision applications and data mechanisms in support of USD(I)'s mission to ensure necessary intelligence information is being acquired, analyzed, and disseminated rapidly amongst our allies and coalition partners. Develop Cloud capabilities for US BICES.

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

	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: International Intelligence Technology and Architectures	1.376	1.416	1.444	-	1.444
FY 2010 Accomplishments: Identified and captured existing USPACOM and USEUCOM intelligence data fusion applications for integration into the U.S. and coalition architectures.					
FY 2011 Plans: Develop widget based advanced analytics applications to transfer data utilizing developing metadata structures and cloud technology into existing U.S., NATO, and coalition networks supporting on-going operations in support of counter-terrorism. Develop processes for incorporating Multi-National Information Sharing (MNIS) functional capabilities.					
FY 2012 Base Plans: Develop applications and architectures to incorporate multi-level security (Oracle Trusted Cross Domain Systems) capabilities for bi-lateral and multi-lateral data dissemination and discovery fusion techniques into existing U.S., NATO, and coalition networks supporting on-going SOF and conventional operational intelligence needs. Develop Cloud capabilities for US BICES. Continue US BICES application integration.					
Accomplishments/Planned Programs Subtotals	1.376	1.416	1.444	-	1.444

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APPROPRIATION/BUDGET ACTIVITY 0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0305600D8Z: <i>International Intelligence Technology and Architectures</i>	PROJECT 997: <i>International Intelligence Technology and Architectures</i>

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

<u>Line Item</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>FY 2016</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• 0305600D8Z Proc DW: <i>International Intelligence Technology and Architectures</i>	20.639	35.136	20.176	8.300	28.476	19.393	18.910	18.488	17.571	Continuing	Continuing
• 0305600D8Z O&M DW: <i>International Intelligence Technology and Architectures</i>	11.519	80.643	80.548	48.750	129.298	80.638	80.201	79.254	80.577	Continuing	Continuing

D. Acquisition Strategy

Performance will be monitored on a monthly basis via Program Reviews, Current Expenditures, Estimated Future Expenditures, and Cost/Schedule Adherence. R&D will provide increased intelligence fusion capabilities in support of US and coalition forces utilizing the US BICES and NATO cloud based networks within the Afghanistan theater and provide increased database information via a DCGS-A like architecture. Provides an increase in intelligence disciplines (IMINT, SIGINT, and potential HUMINT) in support of US and Allied/Coalition forces that currently is very limited to the war fighter. Increased intelligence advanced analytics tools will be migrated from JIOC-IT and DIIE developments and will significantly increase the timeliness of intelligence and bring US BICES/NSCC/IFC capabilities into the current technology baselines.

E. Performance Metrics

Assessment and Analysis - Can easily be adapted or adjusted to meet the current or projected capabilities gap for Allied or Coalition Intelligence Information Sharing.
 Realism – Allows exploration of new environments and capabilities
 Advancement - Increases the current capabilities for the sharing of intelligence information and determine if it actually adds functionality in support of Combatant Commanders requirements.
 Utility - Can be integrated into the existing national or multinational architectures in a timely and cost effective manner and does it increase the discovery and dissemination of intelligence information to the Allies or Coalition forces.

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Office of Secretary Of Defense **DATE:** February 2011

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>US BICES Multi-Level Security</i>				
Evaluate existing MLS capabilities	3	2010	2	2011
Determine Security Levels	4	2010	2	2011
Develop Architectural Approach	4	2010	4	2011
Develop Prototype Capability	2	2011	1	2012
Determine Final Solution	4	2011	1	2012
Determine Accreditation Schedule	2	2011	1	2012
Implement and Operationalize	1	2012	4	2012
Continue Development to Improve MLS	3	2012	4	2016
<i>US BICES Cloud Computing</i>				
Determine US BICES Cloud Computing Requirements	2	2011	4	2011
Evaluate DI2E Architecture	2	2011	4	2011
Determine DI2E Applications that apply to US BICES	3	2011	1	2012
Develop test Cloud Environment	1	2012	2	2013
Determine NATO Cloud Standards	2	2011	3	2012
Implement NATO Cloud Standards	1	2012	4	2012
Implement and Operationalize on US BICES	3	2012	1	2013
Continue development to improve US BICES Cloud Computing	1	2013	4	2016
<i>US BICES Applications Integration</i>				
Evaluate Applications for use on US BICES	3	2010	4	2016
Integrate and test applications for utility on US BICES	3	2010	4	2016