

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Office of Secretary Of Defense **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY			R-1 ITEM NOMENCLATURE								
0400: <i>Research, Development, Test & Evaluation, Defense-Wide</i> BA 7: <i>Operational Systems Development</i>			PE 0305600D8Z: <i>International Intelligence Technology and Architectures</i>								
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	1.403	1.444	1.478	-	1.478	1.524	1.568	1.611	1.640	Continuing	Continuing
997: <i>International Intelligence Technology and Architectures</i>	1.403	1.444	1.478	-	1.478	1.524	1.568	1.611	1.640	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 virtual advanced analytics, algorithmic data fusion, and multi-level security cross domain technologies into an integrated US, North Atlantic Treaty Organization (NATO), and coalition intelligence service oriented architecture/data repository such as the US and NATO Battlefield Information Collection and Exploitation System(s) (BICES). Provides for rapid implementation of US BICES capabilities into the Distributed Common Ground/Surface System (DCGS) and the Defense Intelligence Information Enterprise (DI2E) intelligence 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 US BICES as the "enduring" coalition intelligence support element of the DI2E. Continue the development of the Trusted Network Environment multi-level security database, web, and e-mail capabilities for U.S. Central Command (CENTCOM), U.S. European Command (EUCOM), U.S. Africa Command (AFRICOM), and U.S. Pacific Command (PACOM).

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	1.416	1.444	1.473	-	1.473
Current President's Budget	1.403	1.444	1.478	-	1.478
Total Adjustments	-0.013	-	0.005	-	0.005
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Department adjustment	-0.001	-	0.005	-	0.005
• Congressional adjustment	-0.012	-	-	-	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secretary Of Defense **DATE:** February 2012

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>
---	---	---

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
997: <i>International Intelligence Technology and Architectures</i>	1.403	1.444	1.478	-	1.478	1.524	1.568	1.611	1.640	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 virtual advanced analytics, algorithmic data fusion, and multi-level security cross domain technologies into an integrated US, NATO, and coalition intelligence service oriented architecture / data repository such as the US and NATO BICES. Provides for rapid implementation of US BICES capabilities into the DCGS and the DI2E intelligence decision applications and data mechanisms in support of USD(I)'s mission to ensure necessary intelligence information is being acquired, analyzed, and disseminated rapidly among our allies and coalition partners. Develop US BICES as the "enduring" coalition intelligence component of the DI2E. Continue development of the Trusted Network Environment multi-level security database, web, and e-mail capabilities for US BICES.

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

	FY 2011	FY 2012	FY 2013
Title: International Intelligence Technology and Architectures	1.403	1.444	1.478
FY 2011 Accomplishments: Researched method of utilizing widget based advanced analytics applications to transfer data utilizing developing metadata structures and cloud technology into existing US, NATO, and coalition networks supporting on-going operations in support of counter-terrorism. Developed processes for incorporating Multi-National Information Sharing (MNIS) functional capabilities.			
FY 2012 Plans: Continue development of applications and architectures to incorporate multi-level security (Oracle Trusted Cross Domain Systems) capabilities for bi-lateral and multi-lateral data dissemination and discovery capabilities into existing US, NATO, and coalition networks supporting on-going Special Operations Forces (SOF) and conventional operational intelligence needs. Continue research of potential cloud architectures for US BICES in-line with NATO cloud standards. Initiate DI2E integration research. Begin migration to federated multi-level security capabilities.			
FY 2013 Plans: Continue migration of federated architectures to incorporate multi-level security (Oracle Trusted Cross Domain Systems) capabilities for bi-lateral and multi-lateral data dissemination and discovery information sharing techniques into existing US, NATO, and coalition networks supporting on-going SOF and conventional operational intelligence needs. Incorporate design of DI2E capabilities for US BICES. Continue US BICES application integration.			
Accomplishments/Planned Programs Subtotals	1.403	1.444	1.478

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2013 Office of Secretary Of Defense **DATE:** February 2012

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 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 0305600D8Z Proc DW: <i>International Intelligence Technology and Architectures</i>	20.027	28.476	17.582		17.582	17.097	16.736	15.779	16.100	Continuing	Continuing
• 0305600D8Z O&M DW: <i>International Intelligence Technology and Architectures</i>	86.370	126.337	67.327		67.327	65.739	64.066	60.973	62.250	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. Research and Development will provide increased intelligence information sharing capabilities in support of US and coalition forces utilizing the US BICES and NATO virtual networks within the Afghanistan theater and provide increased database information via Distributed Common Ground System - Army (DCGS-A). Provides an increase in intelligence disciplines (Imagery Intelligence (IMINT), Signal Intelligence (SIGINT), and potential Human Intelligence (HUMINT)) in support of US and Allied/Coalition forces that currently is very limited to the warfighter. Increased intelligence advanced analytics tools will be migrated from Joint Intelligence Operations Center (JIOC)-IT and DI2E developments and will significantly increase the timeliness of intelligence and bring US BICES/NATO Special Operations Forces Coordination Center (NSCC)/Intelligence Fusion Center (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.

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Office of Secretary Of Defense **DATE:** February 2012

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>
---	---	---

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017							
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
US BICES Multi-Level Security (MLS)																																
Evaluate existing Multi-Level Security (MLS) capabilities	█																															
Determine Security Levels	█																															
Develop Architectural Approach	█																															
Develop Prototype Capability					█																											
Determine Final Solution					█																											
Determine Accreditation Schedule	█																															
Implement and Operationalize					█																											
Continue Development to Improve MLS									█																							
US BICES Cloud Computing																																
Determine US BICES Cloud Computing Requirements			█																													
Evaluate DI2E Architecture			█																													
Determine DI2E Applications that apply to US BICES					█																											
Develop test Cloud Environment									█																							
Determine NATO Cloud Standards	█																															
Implement NATO Cloud Standards					█																											
Implement and Operationalize on US BICES									█																							
Continue development to improve US BICES Cloud Computing													█																			
US BICES Applications Integration																																
Evaluate Applications for use on US BICES			█																													

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Office of Secretary Of Defense **DATE:** February 2012

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>
---	---	---

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Integrate and test applications for utility on US BICES	[REDACTED]																											

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Office of Secretary Of Defense **DATE:** February 2012

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>
---	---	---

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>US BICES Multi-Level Security (MLS)</i>				
Evaluate existing Multi-Level Security (MLS) capabilities	1	2011	2	2011
Determine Security Levels	2	2011	1	2012
Develop Architectural Approach	1	2011	3	2011
Develop Prototype Capability	4	2011	3	2012
Determine Final Solution	4	2011	2	2012
Determine Accreditation Schedule	2	2011	1	2012
Implement and Operationalize	1	2012	4	2012
Continue Development to Improve MLS	4	2012	4	2016
<i>US BICES Cloud Computing</i>				
Determine US BICES Cloud Computing Requirements	3	2011	2	2012
Evaluate DI2E Architecture	4	2011	3	2012
Determine DI2E Applications that apply to US BICES	3	2012	1	2013
Develop test Cloud Environment	1	2013	4	2013
Determine NATO Cloud Standards	2	2011	3	2012
Implement NATO Cloud Standards	4	2012	4	2013
Implement and Operationalize on US BICES	3	2013	1	2014
Continue development to improve US BICES Cloud Computing	2	2014	4	2016
<i>US BICES Applications Integration</i>				
Evaluate Applications for use on US BICES	3	2011	4	2016
Integrate and test applications for utility on US BICES	3	2011	4	2016