Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Office of Secretary Of Defense		DATE: April 2013

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

COST ($ in Millions)	All Prior Years	FY 2012	FY 2013#	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	2.792	1.444	1.478	4.372	-	4.372	2.601	2.662	2.704	2.752	Continuing	Continuing
997: *International Intelligence Technology and Architectures*	2.792	1.444	1.478	4.372	-	4.372	2.601	2.662	2.704	2.752	Continuing	Continuing

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

Provides for the identification, migration and integration of existing and advanced multi-lateral and bi-lateral international intelligence information virtual advanced analytics, algorithmic data fusion, and multi-level security cross domain technologies into an integrated US (United States), 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 the Under Secretary of Defense (Intelligence) 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. Continues the development of the Trusted Network Environment (TNE) 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). Supports the research and development of 50+ High Assurance Connection Interfaces to Combatant Command identified bi-lateral and multi-lateral partners, develops the multi-level security rule sets and develops Ozone Widget Framework with applicable cloud widgets that can transverse the multi-level security boundaries. Develops, test, and integrate intelligence mission applications that interface with and support the development of the DoD/CIO Future Mission Network.

B. Program Change Summary ($ in Millions)

	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	1.444	1.478	1.524	-	1.524
Current President's Budget	1.444	1.478	4.372	-	4.372
Total Adjustments	0.000	0.000	2.848	-	2.848
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Department Adjustment	-	-	2.848	-	2.848

Exhibit R-2, **RDT&E Budget Item Justification:** PB 2014 Office of Secretary Of Defense	**DATE:** April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0305600D8Z: *International Intelligence Technology and Architectures*

Change Summary Explanation

Provides an additional $2.848 million to develop and migrate critical mission applications to operate within the TNE multi-level security boundary. Allows the multiple bi-lateral and multi-lateral connections through the High Assurance Connection Interfaces to access the operational intelligence mission software portals and services with the data elements tagged to allow only the intelligence information that is releasable to the particular bi-lateral to be exchanged. Provides for the research and development of the software applications necessary to ensure the PL-4 level security certification remains intact and will allow multi-level security between the secret, secret releasable, and NATO secret levels. Provides research into determining whether data at the unclassified level can be connected to a higher level of security network. Provides for research and development that will allow for US intelligence analysts to view not only US Secret Internet Protocol Router Network (SIPRNET), but multiple bi-lateral and multi-lateral windows on the single workstation.

| Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of Defense | | | | | | | | | | | DATE: April 2013 | |

APPROPRIATION/BUDGET ACTIVITY
0400: *Research, Development, Test & Evaluation, Defense-Wide*
BA 7: *Operational Systems Development*

R-1 ITEM NOMENCLATURE
PE 0305600D8Z: *International Intelligence Technology and Architectures*

PROJECT
997: *International Intelligence Technology and Architectures*

COST ($ in Millions)	All Prior Years	FY 2012	FY 2013#	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
997: *International Intelligence Technology and Architectures*	2.792	1.444	1.478	4.372	-	4.372	2.601	2.662	2.704	2.752	Continuing	Continuing
Quantity of RDT&E Articles												

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

The FY 2014 OCO Request will be submitted at a later date

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 TNE multi-level security database, web, and e-mail capabilities for US BICES.

B. Accomplishments/Planned Programs ($ in Millions)

	FY 2012	FY 2013	FY 2014
Title: International Intelligence Technology and Architectures	1.444	1.478	4.372

FY 2012 Accomplishments:
Developed 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. Researched potential cloud architectures for US BICES in-line with NATO cloud standards. Initiated DI2E integration research. Began migration to federated multi-level security capabillities.

FY 2013 Plans:
Migrate 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.

FY 2014 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

Exhibit R-2A, RDT&E Project Justification: PB 2014 Office of Secretary Of Defense		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0305600D8Z: *International Intelligence Technology and Architectures*	PROJECT 997: *International Intelligence Technology and Architectures*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2012	FY 2013	FY 2014
DI2E capabilities for US BICES. Continue US BICES application integration. Provides additional funding to develop and migrate critical mission applications to run within the TNE multi-level security boundary. Allows the multiple bi-lateral and multi-lateral connections through the High Assurance Connection Interfaces to access the operational intelligence mission software portals and services with the data elements tagged to allow only the intelligence information that is releasable to the particular bi-lateral to be exchanged. Provides for the research and development of the software applications necessary to ensure the PL-4 level security certification remains intact and will allow multi-level security between the secret, secret releasable, and NATO secret levels. Provides research into whether the unclassified level can be connected in conjunction with the higher level security levels. Provides the research and development that will allow for US intelligence analysts to view not only US SIPRNET, but multiple bi-laterals and multi-lateral windows on the single workstation.			
Accomplishments/Planned Programs Subtotals	1.444	1.478	4.372

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• 0305600D8Z Proc DW: *International Intelligence Technology and Architectures*	29.276	17.582	16.678		16.678	16.808	15.831	15.998	16.309	Continuing	Continuing
• 0305600D8Z O&M DW: *International Intelligence Technology and Architectures*	111.808	68.518	69.546		69.546	69.503	65.839	67.234	68.689	Continuing	Continuing

Remarks

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 Headquarters (NSHQ) /NATO Intelligence Fusion Center (NIFC) capabilities into the current technology baselines. Develops and provides a federated TNE that incorporates the Asian Pacific Intelligence Information Network (APIIN) being developed to support the National Defense Strategy as we move out of Afghanistan and into the Pacific. Provides multi-level security intelligence bi-laterals and multi-laterals to meet Combatant Commander Integrated Priority Lists. Develops the Coalition Partner Network for CENTCOM, the Coalition Information Exchange Network (CIEN) for SOUTHCOM, and the Coalition Partner Network for EUCOM and AFRICOM.   Develops the

Exhibit R-2A, **RDT&E Project Justification:** PB 2014 Office of Secretary Of Defense		**DATE:** April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0305600D8Z: *International Intelligence Technology and Architectures*	**PROJECT** 997: *International Intelligence Technology and Architectures*

US BICES connections with these bi-lateral and multi-lateral federated TNEs that make up the US BICES - Extended (US BICES-X) Enterprise Network in support of Commander SOCOM requirements for conventional and coalition operations as the US migrates into other Combatant Command regions.

E. Performance Metrics

Assessment and Analysis - Can it easily be adapted or adjusted to meet the current or projected capabilities gap for Allied or Coalition Intelligence Information Sharing and for the Intelligence integration into the Future Mission Network.

Realism – Allows exploration of new environments and capabilities through participation in exercise environments that utilize bi-lateral and multi-lateral intelligence enterprise solutions such as US BICES-X.

Advancement - Increases the current capabilities for the sharing of intelligence information and determines if it actually adds functionality in support of Combatant Commanders requirements through exercises such as Unified Vision, Enterprise Challange, and the MAJIIC (multi-sensor aerospace ground joint intelligence, surveillance, and reconnaissance interoperability coalition) exercises.

Utility - Can it 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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Office of Secretary Of Defense		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0305600D8Z: *International Intelligence Technology and Architectures*	**PROJECT** 997: *International Intelligence Technology and Architectures*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	FY 2012 Cost	FY 2012 Award Date	FY 2013 Cost	FY 2013 Award Date	FY 2014 Base Cost	FY 2014 Base Award Date	FY 2014 OCO Cost	FY 2014 OCO Award Date	FY 2014 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Multi-Level Security - Trusted Network Environment	SS/CPFF	Hill Air Force Base:Utah	1.700	0.900	Mar 2012	0.900	Feb 2013	2.300	Dec 2013	-		2.300	1.500	7.300	8.000
US BICES Cloud Computing	SS/CPFF	Hill Air Force Base:Utah	0.300	0.300	Apr 2012	0.300	Mar 2013	0.500	Dec 2013	-		0.500	0.700	2.100	3.000
US BICES Application Integration	SS/CPFF	Hill Air Force Base:Utah	0.792	0.244	Mar 2012	0.278	Mar 2013	1.272	Dec 2013	-		1.272	5.900	8.486	10.000
US BICES Cyber Development	SS/CPFF	Hill Air Force Base:Utah	0.000	0.000		0.000		0.300	Dec 2013	-		0.300	4.400	4.700	5,000
Subtotal			2.792	1.444		1.478		4.372		0.000		4.372	12.500	22.586	

	All Prior Years	FY 2012		FY 2013		FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	2.792	1.444		1.478		4.372	0.000	4.372	12.500	22.586	

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2014 Office of Secretary Of Defense		**DATE:** April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0305600D8Z: *International Intelligence Technology and Architectures*	**PROJECT** 997: *International Intelligence Technology and Architectures*

Schedule timeline: FY 2012 – FY 2018 (quarters 1–4 each year).

US BICES Multi-Level Security (MLS)
- Evaluate existing Multi-Level Security (MLS) capabilities: FY2012 Q1–Q3
- Determine Security Levels: FY2012 Q1–Q4
- Develop Architectural Approach: FY2013 Q1–Q4
- Develop Prototype Capability: FY2014 Q1–Q4
- Determine Final Solution: FY2014 Q3–Q4
- Determine Accreditation Schedule: FY2014 Q3–Q4
- Implement and Operationalize: FY2014 Q4 – FY2015 Q4
- Continue Development to Improve MLS: FY2016 Q1 – FY2018 Q4

US BICES Cloud Computing
- Determine US BICES Cloud Computing Requirements: FY2012 Q2–Q3
- Evaluate DI2E Architecture: FY2012 Q3
- Determine DI2E Applications that apply to US BICES: FY2012 Q1 – FY2013 Q4
- Develop test Cloud Environment: FY2014 Q1–Q4
- Determine NATO Cloud Standards: FY2012 Q1 – FY2013 Q1
- Implement NATO Cloud Standards: FY2012 Q4 – FY2013 Q4
- Implement and Operationalize on US BICES: FY2013 Q3 – FY2014 Q4
- Implement TNE Cloud Constructs: FY2015 Q1 – FY2016 Q1
- Continue development to improve US BICES Cloud Computing: FY2016 Q2 – FY2018 Q4

US BICES Applications Integration
- Evaluate Applications for use on US BICES: FY2012 Q2 – FY2018 Q4

Exhibit R-4, **RDT&E Schedule Profile:** PB 2014 Office of Secretary Of Defense		**DATE:** April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0305600D8Z: *International Intelligence Technology and Architectures*	**PROJECT** 997: *International Intelligence Technology and Architectures*

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	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																												
Continue development to improve/expand US BICES applications																												
US BICES Cyber Development																												
Evaluate cyber applications and develop test items																												
Determine cyber applications that can be shared with NATO																												

Exhibit R-4A, **RDT&E Schedule Details:** PB 2014 Office of Secretary Of Defense		**DATE:** April 2013
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0305600D8Z: *International Intelligence Technology and Architectures*	**PROJECT** 997: *International Intelligence Technology and Architectures*

Schedule Details

Events by Sub Project	Start		End	
	Quarter	**Year**	**Quarter**	**Year**
US BICES Multi-Level Security (MLS)				
Evaluate existing Multi-Level Security (MLS) capabilities	2	2012	3	2012
Determine Security Levels	2	2012	1	2013
Develop Architectural Approach	2	2013	4	2013
Develop Prototype Capability	1	2014	4	2014
Determine Final Solution	3	2014	4	2014
Determine Accreditation Schedule	3	2014	4	2014
Implement and Operationalize	4	2014	3	2015
Continue Development to Improve MLS	4	2015	4	2018
US BICES Cloud Computing				
Determine US BICES Cloud Computing Requirements	3	2012	4	2012
Evaluate DI2E Architecture	4	2012	4	2012
Determine DI2E Applications that apply to US BICES	3	2012	4	2013
Develop test Cloud Environment	1	2014	4	2014
Determine NATO Cloud Standards	2	2012	2	2013
Implement NATO Cloud Standards	4	2012	4	2013
Implement and Operationalize on US BICES	3	2013	4	2014
Implement TNE Cloud Constructs	1	2015	1	2016
Continue development to improve US BICES Cloud Computing	2	2016	4	2018
US BICES Applications Integration				
Evaluate Applications for use on US BICES	3	2012	4	2018
Integrate and test applications for utility on US BICES	3	2012	4	2018

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Office of Secretary Of Defense					DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 0400: *Research, Development, Test & Evaluation, Defense-Wide* BA 7: *Operational Systems Development*			**R-1 ITEM NOMENCLATURE** PE 0305600D8Z: *International Intelligence Technology and Architectures*		**PROJECT** 997: *International Intelligence Technology and Architectures*	

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Continue development to improve/expand US BICES applications	1	2014	4	2018
US BICES Cyber Development				
Evaluate cyber applications and develop test items	1	2014	4	2018
Determine cyber applications that can be shared with NATO	1	2014	4	2018