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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force										Date: May 2017		
Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development					PE 0305600F I International Intelligence Technology and Architectures							
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	-	2.298	2.360	3.491	0.000	3.491	3.527	3.579	3.725	3.774	Continuing	Continuing
675898: International Intelligence Technology and Arc	-	2.298	2.360	3.491	0.000	3.491	3.527	3.579	3.725	3.774	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

International Intelligence Technology and Architectures oversees, manages, and provides the United States (US) component of the multi-national Battlefield Information Collection and Exploitation System (US BICES) with a collaborative environment and intelligence sharing enterprise required for processing and disseminating critical intelligence information between and among US, North Atlantic Treaty Organization (NATO), allied and coalition forces. The US BICES program procures and maintains a standing intelligence information sharing capability across Department of Defense (DoD), Combat Support Agencies, and multiple Combatant Commands (CCMD) for the Under Secretary of Defense, Intelligence (USD (I)). At the request of USD (I), US BICES is extended beyond U.S. European Command (USEUCOM) into all CCMDs and is known as US BICES Extended (US BICES-X). US BICES provides an "enduring" US and Coalition interoperable intelligence sharing multi-level secure technical architecture utilizing releasable elements of the Defense Intelligence Information Enterprise (DI2E) framework and functions to support the full spectrum of intelligence operations and dissemination throughout the DoD community. Also, it enables instantiation of US BICES/BICES-X as the intelligence contribution to the Mission Partner Environment (MPE).

Research and Development funding 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.
- Provide an increase in intelligence disciplines (Imagery Intelligence, Signal Intelligence, and potential Human Intelligence) 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 Operation Center-IT and DI2E developments and will significantly increase the timeliness of intelligence and bring US BICES/NATO Special Operations Forces Headquarters/NATO Intelligence Fusion Center capabilities into the current technology baselines.
- Develop and provide a federated Trusted Network Environment (TNE) that incorporates the Asian Pacific intelligence Information Network being developed to support the National Defense Strategy as we transition out of Afghanistan and into the Pacific.
- Provide multi-level security intelligence bi-laterals and multi-laterals to meet Combatant Commander Integrated Priority Lists.
- Develop the Coalition Partner Network for CENTCOM, the Coalition Information Exchange Network for SOUTHCOM, and the Coalition Partner Network for EUCOM and AFRICOM.
- Develop the US BICES connections with these bi-lateral and multi-lateral federated TNEs that make up the 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.

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B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	2.298	2.360	2.491	0.000	2.491
Current President's Budget	2.298	2.360	3.491	0.000	3.491
Total Adjustments	0.000	0.000	1.000	0.000	1.000
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	1.000	0.000	1.000
Change Summary Explanation The FY2018 increase supports additional design, development, testing, and technical refresh for cross-domain capabilities (such as the Trusted Network Environment (TNE)), new BICES-enabled ISR capabilities, and new Geospatial Intelligence and biometric tools for the U.S. BICES Enterprise. This will enable the BICES Program Office (BPO) to: a) modernize and transform the US BICES/US BICES-X worldwide enterprise; b) align US BICES/US BICES-X with the Joint Information environment (JIE) and the Defense Intelligence Information Environment (DI2E) standards, process, and framework; c) develop a cybersecurity roadmap and implement improved cybersecurity assessment tools; and d) smartly enhance capability, capacity, and scalability across the US BICES/US BICES-X enterprise seeking improved integration with the Distributed Common Ground/Surface System (DCGS) family of Systems.					
C. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Title: International Intelligence Technology and Architectures	2.298	2.360	3.491	-	3.491
Description: Continue the research and development in emerging and maturing technologies and capabilities for modernizing and transforming US BICES/BICES-X for improved agility, scalability, access, cybersecurity, and data and information sharing tools and infrastructure.					
FY 2016 Accomplishments: Continued the Certification Test and Evaluation (CT&E) of the next release of the Trusted Network Environment (TNE), providing improvements to existing capabilities, and new services supporting telephony, cross-domain virtual desktop, and data replication capabilities. Research began for the implementation of new services and capabilities, which include advanced search capabilities within the TNE, metadata handling, and restricted user communities for isolating authoritative data sources, integration of multi-domain relational database operations,					

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C. Accomplishments/Planned Programs (\$ in Millions)						FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	
and an application programming interface that will enhance information sharing through the use of existing applications like Share Point with the TNE.											
FY 2017 Plans: Complete a separate Certification Test and Evaluation (CT&E) for an interim accelerated release of the Trusted Network Environment (TNE) to support the fielding of telephony and cross-domain virtual desktop services more quickly than currently scheduled. Fielding the interim release of the TNE, v2.2.											
FY 2018 Base Plans: Continue the research and development for future releases of the Trusted Network Environment (TNE), to include Identity and Access Management (IdAM), peer-federated chat services, and adding video to the telephony services. Begin the Certification Test and Evaluation (CT&E) of new capabilities, to include the implementation and certification of new services such as video teleconferencing (VTC), metadata handling, restricted user communities for isolating authoritative data sources, integration of multi-domain relational database operations, and an application programming interface that will enhance information sharing through the use of existing applications like Share Point with the TNE.											
Accomplishments/Planned Programs Subtotals						2.298	2.360	3.491	-	3.491	
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
• Other Procurement, Air Force: <i>Classified</i>	0.250	18.358	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
• 832050 Other Procurement, Air Force: <i>International Intelligence Technology and Architecture</i>	0.000	0.000	22.335	8.873	31.208	15.139	15.398	15.680	15.967	Continuing	Continuing
Remarks FY2017 and prior procurement funding was appropriated under a classified Other Procurement, Air Force P-1 line item.											
E. Acquisition Strategy Utilize existing competitively awarded General Dynamics Mission Systems (GDMS) contract number FA8240-14-D-2751. The contract is structured as a fixed price incentive fee with one base year and four option years and a period of performance beginning 1 June 2014 through 31 May 2019.											

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F. 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.		