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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Defense Information Systems Agency										Date: May 2017		
Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0301144K / Joint/Allied Coalition Information Sharing							
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	78.860	1.735	5.935	6.104	-	6.104	5.413	5.423	5.544	5.683	Continuing	Continuing
NND: Multinational Information sharing	78.860	1.735	5.935	6.104	-	6.104	5.413	5.423	5.544	5.683	Continuing	Continuing

A. Mission Description and Budget Item Justification

Through the Combined Enterprise Regional Information Exchange System (CENTRIXS) and Pegasus, the Multinational Information Sharing (MNIS) Program enables secure sharing of operational and intelligence information and enhances collaboration between United States (US) forces, trusted allies and other multinational partners. This effort also increases overall combat effectiveness by leveraging capabilities and information from all partners and reducing the possibility of fratricide. These coalition information sharing systems are in direct support of the Department of Defense's (DoD's) strategic goals to "Win our Nation's Wars" and "Deter conflict and promote security". The MNIS program supports five Combatant Commands (COCOMs) with connectivity in 89 nations, the North America Treaty Organization, 11 Bilateral agreements and 150 sites with over 80,000 users worldwide. MNIS also evaluates new technologies and develops tactics, techniques and procedures to facilitate the integration of emerging technologies and capabilities into operational multinational information sharing capability. The integration of new technology for CENTRIXS and Pegasus is accomplished through research, integration, and testing using the Combined Federated Battle Laboratory Network.

A planned improvement to the CENTRIXS coalition network, Common Mission Network Transport (CMNT), will provide distinct and permanent transport capabilities; enabling network operation centers to priority command and control information more efficiently. CMNT supports DoD instruction 8110.1 guidance for integrating CENTRIXS and other operational networks into existing DoD general service communications infrastructure as a separate network servicing all DoD MNIS requirements. This capability provides a common transport for encrypted traffic. CMNT will be the established encrypted network to facilitate the movement of virtual private network traffic between segments.

The MNIS emerging capability, Unclassified Information Sharing Services (UISS), extends US information sharing capabilities to mission partners providing enterprise-level solutions that allow COCOMs to share unclassified information with US Government agencies and non-traditional partners such as, host nations, intergovernmental organizations, and nongovernmental organizations. The employment concept for the UISS is to implement enterprise Web-based, "non-mil" platform, available to as broad a community as needed to support mission operations, with worldwide, 24 hour-a-day, seven day-a-week access, to any user with an Internet connection, including web-enabled mobile personal devices. Using an Internet-based capability and an integrated suite of commercial-off-the-shelf collaboration tools the UISS capability will enable unclassified information exchanges and ad-hoc communications for shared communities of interest and issue-specific groups among and across organizations and individuals.

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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	1.845	5.935	6.104	-	6.104
Current President's Budget	1.735	5.935	6.104	-	6.104
Total Adjustments	-0.110	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.110	-			
• SBIR/STTR Transfer	-	-			
 <u>Change Summary Explanation</u> No change explanation needed.					

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Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0301144K / Joint/Allied Coalition Information Sharing				Project (Number/Name) NND / Multinational Information sharing			
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
NND: Multinational Information sharing	78.860	1.735	5.935	6.104	-	6.104	5.413	5.423	5.544	5.683	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Multinational Information Sharing (MNIS) Program is a portfolio of four coalition information sharing capabilities designed to enable and improve sharing of operational and intelligence information among United States (US) forces and multinational partners.

1) Combined Enterprise Regional Information Exchange System (CENTRIXS), supports intelligence and classified operations at the Secret Releasable level. There are multiple, cryptographically-isolated CENTRIXS enclaves serving various communities of interest (COI) that support multinational efforts including Overseas Contingency Operations and counter-narcotics operations. CENTRIXS is regionally focused and combatant command (COCOM) centric. The MNIS Program Management Office provides selected centralized services from two Defense Enterprise Computing Centers for five of the 40+ CENTRIXS networks/COIs, and engineering support for standardized solutions.

2) Pegasus connects the national Command and Control (C2) systems of Combined Communications Electronics Board (CCEB) Nations including Australia, Canada, New Zealand, United Kingdom and the US, using commercial-off-the-shelf security appliances and cross domain solutions that facilitate situational awareness and operational planning/execution. Pegasus has a strategic focus and is member nation centric.

3) The Combined Federated Battle Laboratory Network (CFBLNet) provides a controlled coalition Research, Development, Trials and Assessment coalition information sharing “sandbox” for the US, CCEB Nations, North Atlantic Treaty Organization (NATO), and other mission essential nations. This sandbox is used to evaluate new technologies and to develop tactics, techniques and procedures that facilitate the transition of promising technologies and capabilities into operational multinational information sharing capability enhancements. CFBLNet's direct customers are the CCEB nations’ military operational and intelligence entities led by their US counterparts at the COCOM and Agency levels. It is being used for the Coalition Warrior Interoperability Demonstrations, NATO missile defense initiatives, and by the Intelligence, Surveillance and Reconnaissance community to test capabilities prior to deployment.

4) The Unclassified Information Sharing Service (UISS) extends US information sharing capabilities to mission partners, enterprise-level solutions that allow COCOMs to share unclassified information with other US Government agencies, host nations, inter-governmental organizations, non-governmental organizations, and other partners.

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

	FY 2016	FY 2017	FY 2018
Title: Multinational Information Sharing	1.735	5.935	6.104
Description: Through the CENTRIXS and Pegasus, the MNIS Program enables secure sharing of operational and intelligence information and enhances collaboration among US forces, most trusted allies and additional multinational partners. The MNIS			

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017
<p>Program also initiated a capability to support enhancements for the UISS-All Partners Access (APAN). UISS-APAN migrated existing systems supporting coalition sharing to an enterprise solution hosted on a DISA Defense Enterprise Computing Center. UISS-APAN capability will satisfy COCOM needs for tools and technology to support collaboration with non-traditional partners for humanitarian missions.</p> <p>FY 2016 Accomplishments: CENTRIXS CMNT: Completed CMNT transport integration and testing which improves and provides more effective and faster classified information sharing across the enterprise. Performed testing and support activities for the first CENTRIXS virtualized node location to evolve CENTRIXS to the Mission Partner Environment - Information Systems (MPE-IS) to be more responsive to COCOM missions to receive services within days vice weeks.</p> <p>Pegasus: Performed testing and integration activities to implement new Pegasus Five Eyes (FVEY) nations Sharepoint capability.</p> <p>CFBLNet: Provided integration and testing services to support Coalition Verification and Validation Environment (CV2E) enclave and support Coalition and NATO testing initiatives for Enterprise Challenge 2016 (EC16) among other exercises.</p> <p>UISS-APAN: Developed network system architecture designs and integration testing for commercial cloud services transition from legacy hosting platform.</p> <p>The decrease of -\$2.086 from FY 2015 to FY 2016 is attributed to decreased testing activities; research, engineering, and planning support for classified networks that include CENTRIXS, Pegasus, and CFBLNet coalition environments.</p> <p>FY 2017 Plans: CENTRIXS CMNT: Continue leveraging technology refresh activities for integration of CENTRIXS environments to include MPE-IS and standardize coalition environments to support hosting more COIs to gain efficiencies in infrastructure consolidation and rapid mission response time. MPE-IS testing and integration activities will support CENTRIXS core services for Episodic and Enduring MPE Capabilities for COCOMs.</p> <p>Pegasus: Plan to perform testing and integration activities for MPE FVEY Nations capabilities to support one-time and on-going capabilities for FVEY Nations (AUS/CAN/NZL/UK/USA).</p> <p>CFBLNet: Plan to perform testing and integration activities for Commercial Solutions for Classified (CSfC) to provide more efficient classified communications for coalition networks. Plan to provide integration and testing services to expand CFBLNet as a Service to support MPE virtualization and Coalition Test Bed Environments.</p>			
		FY 2018	

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2016	FY 2017	FY 2018
<p>UISS-APAN: Plan to perform network system architecture integration and testing for the Unclassified Mission Partner Environment (MPE) Gateway and cloud efforts to support Software as a Service (SaaS), Infrastructure as a Service (IaaS), and Platform as a Service (PaaS).</p> <p>The increase of +\$4.090 from FY 2016 to FY 2017 provides an increase in testing and integration activities for MPE Episodic and Enduring capabilities to implement virtualized technologies for Classified COIs and Unclassified MPE Gateway integration and testing.</p> <p>FY 2018 Plans: CENTRIXS CMNT: Continue leveraging technology refresh activities for integration of legacy CENTRIXS environments to gain efficiencies in virtualization consolidation for storage and services to reduce sustainment costs. Plan for integration and testing of additional core services to mission partners.</p> <p>Pegasus: Plan to perform testing and integration activities for Coalition Network Operations Center (CNOC) and National-level Network Operations Center (NNOC) FVEY (AUS/CAN/NZL/UK/USA) Nations capabilities.</p> <p>CFBLNet: Plan to perform testing and integration activities for technical refresh of Wide Area Network (WAN) infrastructure to support Research and Development, Training, Trials & Assessment (RDTT&A) initiatives on a recurring annual basis. Support testing and integration for virtualized infrastructure for Cross Domain Enterprise Services.</p> <p>UISS-APAN: Plan to perform cloud platform integration and testing for the Unclassified information sharing capabilities supporting Humanitarian Assistance & Disaster Relief (HA/DR) efforts.</p> <p>The increase of +\$0.169 from FY 2017 to FY 2018 provides an increase in testing and integration activities for MPE Episodic and Enduring capabilities to implement virtualized technologies for Classified COIs.</p>			
Accomplishments/Planned Programs Subtotals	1.735	5.935	6.104

C. 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
• O&M, DW/0301144K: <i>O&M, DW</i>	50.352	47.629	46.665	-	46.665	46.749	47.227	48.172	48.357	Continuing	Continuing
• Proc, DW/0301144K: <i>Proc, DW</i>	0.596	0.623	0.708	-	0.708	1.003	1.003	1.023	1.049	Continuing	Continuing

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C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2018</u>	<u>FY 2018</u>	<u>FY 2018</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>Complete</u>	<u>Total Cost</u>
Remarks											
D. Acquisition Strategy											
Performance-based contracts are primarily used for this support. MNIS maximizes the use of competitive awards and uses various contract types, employs large and small contractors, and is focused to achieve agency socio-economic goals and incorporate DoD acquisition reform initiatives. MNIS evaluates performance by conducting thorough Post-award Contract Reviews, monthly Contract Performance Reviews, and monthly In-Process Reviews.											
E. Performance Metrics											
Measure:											
-Functional and/or Security Test & Evaluation test cases.											
Performance Metric:											
-System will provide for 99.99% data integrity for authorized users sharing information cross COI. FY14 (Actual): Met											
FY16 (Estimate): N/A											
FY17 (Estimate): N/A											
-Maintain 99.99% confidentiality for users, by Nation between COI's. FY14 (Actual): Met											
FY16 (Estimate): N/A											
FY17 (Estimate): N/A											
-Direct traffic with 99.99% accuracy for chat, email, VOIP, file transfer, data storage and web service. FY14 (Actual): Met											
FY16 (Estimate): N/A											
FY17 (Estimate): N/A											
Methodology:											
-Assessment Plan											
-Sample ≥ 10K transactions (Email, chat & file storage/transfer)											
-Conduct selected ST&E test cases											
Measure:											

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<p>-Security Performance Metric:</p> <p>-Deny 98.5% of unauthorized user attempts FY14 (Actual): Met FY16 (Estimate): N/A FY17 (Estimate): N/A</p> <p>Methodology: -Assessment Plan -DISA Field Security Operations will conduct penetration testing</p> <p>Measure: -Security</p> <p>Performance Metric: -Audit log must capture 99.99% of any unauthorized user activity. FY14 (Actual): Met FY16 (Estimate): N/A FY17 (Estimate): N/A</p> <p>Measure: -% of design, testing and integration activities for MNIS classified technology refresh projects complete (9 Nodes) – 100%</p> <p>Performance Metric: -Information Assurance (Classified) FY16 (Estimate): Met FY17 (Estimate): Expected to Meet FY18 Target: Expected to Meet</p> <p>Methodology: -Technology Refreshes Projects – 100% -Direct traffic with 99.99% accuracy for chat, email, VOIP, file transfer, data storage and web service.</p> <p>Measure: -Number of CFBLNet Exercises/Events hosted</p>		

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<p>Performance Metric:</p> <p>-Annual number of CFBLNet Exercises hosted \geq 2 Exercises Hosted (Empire Challenge & CWIX)</p> <p>FY16 (Estimate): Met</p> <p>FY17 (Estimate): Expected to Meet</p> <p>FY18 Target: Expected to Meet</p> <p>-Annual number of Test Bed Exercise \geq 16 Test Events Hosted FY16 (Estimate): Met</p> <p>FY16 (Estimate): Met</p> <p>FY17 (Estimate): Expected to Meet</p> <p>FY18 Target: Expected to Meet</p> <p>Methodology:</p> <p>-Number of exercises hosted per Fiscal Year</p> <p>Measure:</p> <p>Cloud integration, Development, Integration, Testing (Unclassified)</p> <p>Performance Metric:</p> <p>% of Cloud Development, Testing, Integration and Implementation Complete = 100%</p> <p>FY16 (Estimate): Met</p> <p>FY17 (Estimate): Expected to Meet</p> <p>FY18 Target: Expected to Meet</p>		