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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Defense Information Systems Agency **Date:** February 2016

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide I BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0301144K / <i>Joint/Allied Coalition Information Sharing</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	74.929	3.931	1.845	5.935	-	5.935	6.104	5.451	5.487	5.596	Continuing	Continuing
NND: <i>Multinational Information sharing</i>	74.929	3.931	1.845	5.935	-	5.935	6.104	5.451	5.487	5.596	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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	3.931	3.645	6.382	-	6.382
Current President's Budget	3.931	1.845	5.935	-	5.935
Total Adjustments	0.000	-1.800	-0.447	-	-0.447
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-1.800			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustment	-	-	-0.447	-	-0.447

Change Summary Explanation

The decrease of -\$1.800 in FY 2016 is attributed to decreased testing activities for classified networks that support CENTRIXS, Pegasus, and CFBLNet coalition environments.

The decrease of -\$0.447 in FY 2017 is attributed to virtualized technology efficiencies resulting in reduced requirements for engineering and integration efforts.

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Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 0301144K / <i>Joint/Allied Coalition Information Sharing</i>				Project (Number/Name) NND / <i>Multinational Information sharing</i>			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
NND: <i>Multinational Information sharing</i>	74.929	3.931	1.845	5.935	-	5.935	6.104	5.451	5.487	5.596	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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: Multinational Information Sharing	3.931	1.845	5.935	-	5.935

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>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 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 2015 Accomplishments: CENTRIXS CMNT: Supported systems engineering, testing and integration on reconnaissance network requirement capabilities.</p> <p>Pegasus: Implemented the National Gateway Consolidation Plan for web services, Voice over Internet Protocol (VoIP) and continued to improve and to expand and enhance chat services to all CCEB Nations.</p> <p>CFBLNet: Provided a Research, Development, Trials and Assessment (RDTA) testing environments for NATO, the CCEB nations and other mission essential nations. Evaluated emerging capabilities and technologies supportive of coalition information sharing needs.</p> <p>UISS-APAN: Moved infrastructure as a Service (IaaS) to a cloud environment and continued to design and develop capability improvements to increase user capacity.</p> <p>FY 2016 Plans: CENTRIXS CMNT: Will complete CMNT transport integration and testing to modernize, improve and provide more effective and faster classified information sharing across the enterprise by the end of FY 2016. Will perform testing and support activities for CENTRIXS virtual technologies to align to the Joint Information Environment (JIE) and 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: Perform testing and integration activities to upgrade Pegasus Chat solution for interoperability with all Five Eyes (FVEY) nations. Integrate and test FVEY sharepoint solution.</p> <p>CFBLNet: Provide integration and testing services to expand CFBLNet enclave to support Coalition Verification and Validation Environment (CV2E) enclave.</p>					

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>UISS-APAN: Perform network system architecture designs and integration testing for commercial cloud services and mobility efforts.</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 Base 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> <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>					
Accomplishments/Planned Programs Subtotals	3.931	1.845	5.935	-	5.935

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u> <u>Base</u>	<u>FY 2017</u> <u>OCO</u>	<u>FY 2017</u> <u>Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• O&M, DW/0301144K: <i>O&M, DW</i>	51.348	50.352	45.961	1.668	47.629	46.665	46.749	47.227	48.172	Continuing	Continuing
• Proc, DW/0301144K: <i>Proc, DW</i>	0.000	0.596	0.623	-	0.623	0.708	1.003	1.003	1.023	Continuing	Continuing

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

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

FY15 (Actual): Met

FY16 (Estimate): N/A

FY17 (Estimate): N/A

-Maintain 99.99% confidentiality for users, by Nation between COI's. FY14 (Actual): Met

FY15 (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

FY15 (Actual): Met

FY16 (Estimate): N/A

FY17 (Estimate): N/A

Methodology:

-Assessment Plan

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<p>-Sample ≥ 10K transactions (Email, chat & file storage/transfer)</p> <p>-Conduct selected ST&E test cases</p> <p>Measure: -Security Performance Metric:</p> <p>-Deny 98.5% of unauthorized user attempts FY14 (Actual): Met FY15 (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 FY15 (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) FY15 (Actual): Met FY16 (Estimate): Expected to Meet FY17 (Estimate): Expected to Meet</p>		

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Methodology:

- Technology Refreshes Projects – 100%
- Direct traffic with 99.99% accuracy for chat, email, VOIP, file transfer, data storage and web service.

Measure:

- Number of CFBLNet Exercises/Events hosted

Performance Metric:

- Annual number of CFBLNet Exercises hosted \geq 2 Exercises Hosted (Empire Challenge & CWIX)
FY15 (Actual): Met; hosted over 5 exercises
FY16 (Estimate): Expected to Meet
FY17 (Estimate): Expected to Meet

- Annual number of Test Bed Exercise \geq 16 Test Events Hosted FY16 (Estimate): Expected to Meet
FY17 (Estimate): Expected to Meet

Methodology:

- Number of excercises hosted per Fiscal Year

Measure:

Cloud integration, Development, Integration, Testing (Unclassified)

Performance Metric:

- % of Cloud Development, Testing, Integration and Implementation Complete = 100%
FY15 (Expected Actual): Met
FY16 (Estimate): Expected to Meet
FY17 (Estimate): Expected to Meet

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Defense Information Systems Agency **Date:** February 2016

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Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Cross Domain Chat - develop & tech svcs	C/CPFF	Harris Corporation : Alexandria VA	15.149	-		-		-		-		-	0.00	15.149	15.149
Cross Domain Solutions – operational capabilities support	C/CPFF	HAI/Raytheon : Arlington VA	11.781	-		-		-		-		-	0.00	11.781	11.781
Cross Domain Chat	C/CPFF	TBD : TBD	-	0.137	Jan 2015	0.100	Jan 2016	0.100	Jan 2017	-		0.100	Continuing	Continuing	Continuing
Cross Domain Solutions - Ops Capabilities Spt	C/CPFF	CACI : Chantilly VA	0.650	0.075	Feb 2015	0.075	Aug 2016	0.100	Aug 2017	-		0.100	Continuing	Continuing	Continuing
Subtotal			27.580	0.212		0.175		0.200		-		0.200	-	-	-

Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
CLASSIFIED	MIPR	- : -	9.069	-		-		-		-		-	Continuing	Continuing	Continuing
Federally Funded Research Develop Center (FFRDC)	C/CPFF	MITRE : Arlington VA	7.328	-		0.571	Feb 2016	0.850	Oct 2016	-		0.850	Continuing	Continuing	Continuing
Program support	C/CPFF	Ingenium and SAIC : Upper Marlboro MD and Washington D.C.	1.522	-		-		-		-		-	0.00	1.522	1.522
Engineering Support	C/CPFF	Raytheon : Arlington VA	8.580	-		-		-		-		-	0	8.580	8.580
DoD Services	MIPR	Various - SPAWAR and Pacific Warfighting Ctr : Hawaii	4.110	1.122	Oct 2014	-		-		-		-	Continuing	Continuing	Continuing
Project Planning and Management	C/CPFF	Harris Corporation : Alexandria VA	4.315	-		-		-		-		-	0.00	4.315	Continuing
Engineering Support	C/CPFF	CACI : Chantilly VA	0.975	0.050	Aug 2015	0.075	Aug 2016	0.075	Aug 2017	-		0.075	Continuing	Continuing	Continuing
Project Planning	C/CPFF	TBD : TBD	-	1.553	Nov 2014	0.041	Jan 2016	1.500	Jan 2017	-		1.500	Continuing	Continuing	-
Engineering Support	C/CPIF	TBD : TBD	-	-		0.195	Nov 2015	1.723	Dec 2016	-		1.723	Continuing	Continuing	Continuing

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Defense Information Systems Agency		Date: February 2016
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	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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
MULTINATIONAL INFORMATION SHARING (MNIS) – Current Systems																												
CENTRIX Capability																												
CMNT																												
JITC Testing Security/C&A																												
CFBLNet																												
UIS																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Defense Information Systems Agency		Date: February 2016
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>MULTINATIONAL INFORMATION SHARING (MNIS) – Current Systems</i>				
CENTRIX Capability	1	2015	4	2021
CMNT	1	2015	4	2021
JITC Testing Security/C&A	1	2015	4	2021
CFBLNet	1	2015	4	2021
UIS	1	2015	4	2021