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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy **Date:** March 2014

Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0304231N / Tactical Command System - MIP
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	2.290	1.072	2.140	1.011	-	1.011	1.007	1.016	1.045	1.073	Continuing	Continuing
2009: OSIS Evolutionary Development (OED)	2.290	1.072	2.140	1.011	-	1.011	1.007	1.016	1.045	1.073	Continuing	Continuing

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Radiant Mercury (RM) is a secure information platform that provides an automated means to sanitize, downgrade, guard, and transliterate formatted data at various classifications, compartments and releasabilities. It enables Combatant Commanders as well as operational commanders, afloat and ashore to disseminate and receive critical operational and intelligence information with coalition and allied forces.

Major Focus Area for FY15: Commence RM Version 6.x development and begin the certification process.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	1.170	2.140	1.171	-	1.171
Current President's Budget	1.072	2.140	1.011	-	1.011
Total Adjustments	-0.098	-	-0.160	-	-0.160
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	-0.001	-	-0.160	-	-0.160
• Congressional General Reductions Adjustments	-0.097	-	-	-	-

Change Summary Explanation

Schedule:

1. Certification Test & Evaluation (CT&E) of Radiant Mercury (RM) Version 5.1 shifted from 3QFY12 to 3QFY13 due to National Security Agency (NSA) schedule delays.
2. Delivery of RM Version 5.1 shifted from 2QFY13 to 4QFY13 due to NSA schedule delays.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0304231N / Tactical Command System - MIP				Project (Number/Name) 2009 / OSIS Evolutionary Development (OED)			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
2009: OSIS Evolutionary Development (OED)	2.290	1.072	2.140	1.011	-	1.011	1.007	1.016	1.045	1.073	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
Trusted Information System (TIS) Radiant Mercury (RM) is a system that successfully provides accredited Cross Domain Solutions (CDS) to the Navy, the Department of Defense (DoD), and the Intelligence Community (IC). TIS RM is a critical component of network-centric warfare, supporting joint operations and allied and coalition forces world-wide. The ability to pass sensitive and critical data across security domains and to our allied and coalition partners in a timely fashion can only be met by accredited CDS systems such as RM. RM enables the Navy to operate in a multi-national environment.												
TIS RM provides automated, bi-directional sanitization, transliteration and guarding capability for formatted and unformatted data between security enclaves. RM helps ensure critical intelligence is provided quickly to operational decision-makers. TIS RM provides the capability to disseminate information for operating forces worldwide, including the operating forces of key allies in the Pacific, Central and European Command regions. This capability to move all-source intelligence-derived track information into the realm of the operational community significantly improves the situational awareness of tactical operators and planners. Unformatted data is handled by the Information Review Process (IRP). The system provides cross domain services to a wide variety of customers including Combatant Commanders, Air Force (Shared Early Warning program), Army (Blue Force Tracking Program), Missile Defense Agency (MDA), Navy Cyber Defense Operations Command (NCDOD), Naval Modular Automated Communication Systems (NAVMACS), Mobile User Objective Systems (MUOS), Navy (Global Command and Control System - Maritime/J (GCCS-M/J), Automatic Identification System (AIS), Maritime Operations Centers (MOC), Distributed Common Ground System-Navy (DCGS-N), Tactical Ranges (TR), and numerous other DoD and Intelligence agencies.												
Major Focus Area for FY15: Commence RM Version 6.x development and begin the certification process.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Radiant Mercury (RM)									1.072	2.140	1.011	
									Articles: -	-	-	
FY 2013 Accomplishments: Completed development of Radiant Mercury (RM) Version 5.1, representing a critical interim step in RM's ultimate migration to Security Enhanced (SE) Linux in Version 6.0 and continued certification and delivery of RM Version 5.1. Version 5.1 allows RM to use a new, non-proprietary Lightweight Directory Access Protocol (LDAP) server to provide multi-zone user authentication and removed a dependency on the current vendor who introduced a new licensing model which had the potential to significantly												

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2013	FY 2014	FY 2015		
<p>raise the cost of using their products. Commenced development definition of RM Version 6.0 to run on SE Linux, removing further dependency on proprietary vendor products.</p> <p>FY 2014 Plans: Complete development of the RM Version 6.0 baseline to run on SE Linux which removes dependency on proprietary vendor products whose pricing models have had a negative impact on the program and customers. SE Linux will allow the developer to customize the Operating System (OS) for the RM application, increasing processing speed and improving security. Improve remote configuration management by replacing the current version of Windows with a Lightweight Text Interface for initial configuration control and a web-based interface to configure the system. Use Free and Open Source Software (FOSS) to manage the log, audit reduction, and mission assessment capabilities. Enhance Message Analysis Generator (MAG) Generic Interface Functionality (MGIF) in order to take advantage of software and capabilities developed elsewhere within the Navy, DoD, and the Intelligence Communities (IC). Complete certification testing.</p> <p>FY 2015 Plans: Deliver RM Version 6.0. Commence RM Version 6.x development and begin the certification process which includes Factory Acceptance Testing (FAT), alpha testing, and government testing. FAT will include test procedure development to ensure all systems requirements are tested properly, dry-run testing to ensure the procedures are sufficient, and formal testing which will be witnessed by the government. Alpha testing is conducted by the Independent Verification and Validation (IV&V) team and is separate from the FAT. Upon successful FAT and alpha testing the software is provided to the National Security Agency (NSA) and Defense Intelligence Agency (DIA) government labs for the actual certification and testing event in FY16. In parallel to these testing activities, the software will also be provided to several RM customers who maintain their own labs. These customers will provide valuable feedback on the stability and utility of the new software.</p>											
Accomplishments/Planned Programs Subtotals							1.072	2.140	1.011		
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPN/2608: <i>Trusted Information System (TIS)</i>	0.428	0.396	0.324	-	0.324	0.286	0.293	0.298	0.305	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
Trusted Information Systems (TIS) Radiant Mercury (RM) provides automated, bi-directional sanitization, transliteration and guarding capability for formatted and unformatted data between security enclaves. RM helps ensure critical Indications and Warning intelligence is provided quickly to operational decision-makers. RM											

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<p>provides certified and accredited Cross Domain capabilities in the Pacific Command (PACOM), Europe Command (EUCOM) and Central Command (CENTCOM), Northern Command (NORTHCOM), Areas of Responsibility (AOR). RM is a fee-for-service program, it receives partial funding from the Navy to cover basic program management and infrastructure costs. The remaining funds needed to keep the program operating are generated from a fee-for-service model which charges customers a Life Cycle Surcharge (LCS) on all new task orders and an Annual User Fee (AUF) on all operational RM systems currently fielded.</p> <p><u>E. Performance Metrics</u></p> <p>Radiant Mercury (RM) provides and develops certified, accredited Cross Domain Solutions (CDS) and transfer capabilities to DoD and Intelligence Community (IC), and provides the capability to disseminate and receive operational and intelligence information for 100% of authorized sites.</p> <p>Complete 100% of certification, system and security testing of RM version (X) for release. Provide the capability to sanitize, downgrade, guard, and transliterate formatted data at various classifications, compartments and releasabilities to combatant and operational commanders, coalition and allied forces at over 420 sites world-wide.</p>		

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PE 0304231N: *Tactical Command System - MIP*
Navy

R-1 Line #144

R-1 Program Element (Number/Name)	Program Element Description	Program Element Status	Program Element Comments

PE 0304231N / Tactical Command System -
MIP

2009 / OSIS Evolutionary Development (OED)

Fiscal Year	2013				2014				2015				2016				2017				2018				2019			
	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
Test & Evaluation																												
Certification Test			CT&E - RM Version 5.1 ▲					△ CT&E - RM Version 6.0					△ CT&E - RM Version 6.x							△ CT&E - RM Version 7.0							△ CT&E - RM Version 7.x	
RM Software Deliveries			DELIVERY RM Version 5.1 ▲					△ DELIVERY RM Version 6.0					△ DELIVERY RM Version 6.x														△ DELIVERY RM Version 7.0	

Exhibit R-4. Schedule Profile

1. CT&E of RM Version 5.1 slipped from 3Q 2012 to 3Q 2013 due to NSA schedule delays.
2. Delivery of RM Version 5.1 slipped from 2Q 2013 to 4Q 2013 due to NSA Schedule delays.