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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2014 Navy	<b>DATE:</b> April 2013
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APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>					PE 0304231N: <i>Tactical Command System - MIP</i>							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	1.311	0.979	1.170	2.140	-	2.140	1.171	1.146	1.168	1.189	Continuing	Continuing
2009: <i>OSIS Evolutionary Development (OED)</i>	1.311	0.979	1.170	2.140	-	2.140	1.171	1.146	1.168	1.189	Continuing	Continuing

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 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 FY14: Begin and complete development and in-house testing of Radiant Mercury (RM) Version 6.0. RM Version 6.0 will be a major software release on a new secure operating system requiring extensive and in-house testing prior to beginning the government Certification and Accreditation (C&A) process.

<b>B. Program Change Summary (\$ in Millions)</b>	<b><u>FY 2012</u></b>	<b><u>FY 2013</u></b>	<b><u>FY 2014 Base</u></b>	<b><u>FY 2014 OCO</u></b>	<b><u>FY 2014 Total</u></b>
Previous President's Budget	0.979	1.170	1.141	-	1.141
Current President's Budget	0.979	1.170	2.140	-	2.140
Total Adjustments	0.000	0.000	0.999	-	0.999
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	1.000	-	1.000
• Rate/Misc Adjustments	0.000	0.000	-0.001	-	-0.001

**Change Summary Explanation**

Schedule:

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

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1319: <i>Research, Development, Test &amp; Evaluation, Navy</i>		PE 0304231N: <i>Tactical Command System - MIP</i>
BA 5: <i>System Development &amp; Demonstration (SDD)</i>		
3. CT&E of RM Version 6.0 slipped from 3Q 2013 to 4Q 2014 due to development delays.		
4. Delivery of RM Version 6.0 slipped from 4Q 2013 to 1Q 2015 due to development delays.		
5. CT&E of RM Version 6.X slipped from 4Q 2015 to 1Q 2016 due to development delays.		
6. Delivery of RM Version 6.X slipped from 1Q 2016 to 2Q 2016 due to NSA Schedule delays.		
Technical: Not Applicable.		

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)					R-1 ITEM NOMENCLATURE PE 0304231N: Tactical Command System - MIP				PROJECT 2009: OSIS Evolutionary Development (OED)			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO <sup>##</sup>	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
2009: OSIS Evolutionary Development (OED)	1.311	0.979	1.170	2.140	-	2.140	1.171	1.146	1.168	1.189	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
# 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												
Radiant Mercury (RM): 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. 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 Cross Domain Solution (CDS) systems such as RM. RM enables the United States (US) 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 Europe 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), Navy (Global Command and Control System - Maritime/J (GCCS-M/J) and Automatic Identification System (AIS)), Maritime Operations Centers (MOC), Distributed Common Ground System-Navy (DCGS-N), Tactical Ranges (TR), and numerous other Department of Defense (DoD) and Intelligence agencies.												
Major Focus Area for FY14: Complete development of Radiant Mercury (RM) Version 6.0 to run on Security Enhanced (SE) Linux which removes dependency on proprietary vendor products whose pricing models have had a negative impact on the program and customers. Begin and complete the in-house testing and certification process for Version 6.0. SE Linux allows the developer to customize the Operating System (OS) for the RM application, increasing processing speeds 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 (FOSS) to manage the Log, Audit Reduction, and Mission Assessment capabilities. Enhance the RM Message Analysis Generator (MAG) Generic Interface Functionality (MGIF) in order to take advantage of software and capabilities developed elsewhere within the Navy, Department of Defense, and Intelligence communities.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: Radiant Mercury (RM)									0.979	1.170	2.140	

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0304231N: Tactical Command System - MIP		PROJECT 2009: OSIS Evolutionary Development (OED)
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
Articles:		0	0	0
<p><b>FY 2012 Accomplishments:</b> Developed Radiant Mercury (RM) Version 5.1 based upon user feedback. The RM incremental update included improvements identified by operational commands and remedies to shortfalls as identified in the Unified Cross Domain Management Office (UCDMO) roadmap. Continued to develop and Integrate Radiant Mercury (RM) into Command, Control, Communications, Computers, &amp; Intelligence (C4I) Programs of Record (POR) evolving architectures to include Consolidated Afloat Networks and Enterprise Services (CANES).</p> <p><b>FY 2013 Plans:</b> Commence development of Radiant Mercury (RM) Version 6.0 to run on Security Enhanced (SE) Linux which removes dependency on proprietary vendor products whose pricing models have had a negative impact on the program and customers. SE Linux allows 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 our Message Analysis Generator (MAG) Generic Interface Functionality (MGIF) in order to take advantage of software and capabilities developed elsewhere within the Navy, the Department of Defense (DoD), and the Intelligence Communities.</p> <p><b>FY 2014 Plans:</b> Complete development of Radiant Mercury (RM) Version 6.0 to run on Security Enhanced (SE) Linux which removes dependency on proprietary vendor products whose pricing models have had a negative impact on the program and customers. Begin and complete the certification process for Version 6.0. SE Linux allows the developer to customize the Operating System (OS) for the RM application, increasing processing speeds 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 (FOSS) to manage the Log, Audit Reduction, and Mission Assessment capabilities. Enhance the Radiant Mercury Message Analysis Generator (MAG) Generic Interface Functionality (MGIF) in order to take advantage of software and capabilities developed elsewhere within the Navy, Department of Defense, and Intelligence communities.</p>				
Accomplishments/Planned Programs Subtotals		0.979	1.170	2.140

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy									DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0304231N: Tactical Command System - MIP				PROJECT 2009: OSIS Evolutionary Development (OED)			
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
• OPN/2608: Trusted Information System (TIS)	0.426	0.448	0.396		0.396	0.409	0.373	0.383	0.390	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 is actively involved in the cross domain dissemination of information for operating forces worldwide, including the operating forces of key allies involved in the Overseas Contingency Operations (OCO), in Pacific Command (PACOM), Europe Command (EUCOM) and Central Command (CENTCOM) regions. 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.											
E. Performance Metrics											
Provide and develop certified, accredited Cross Domain Solution (CDS) and transfer capabilities to the Department of Defense (DoD) and Intelligence Community, and provide the capability to disseminate and receive operational and intelligence information for 100% of authorized sites. Completed 100% of certification, system and security testing of Radiant Mercury (RM) version 5.0.1 for release. Provide the capability to sanitize, downgrade, guard, and transliterate formatted data at various classifications, compartments and releasabilities to combat and operational commanders, coalition and allied forces at over 420 sites world wide and over 800 fielded systems.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: System Development & Demonstration (SDD)						R-1 ITEM NOMENCLATURE PE 0304231N: Tactical Command System - MIP				PROJECT 2009: OSIS Evolutionary Development (OED)					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering	C/CPFF	Lockheed Martin:Denver Colorado	0.890	0.676	Oct 2011	0.848	Dec 2012	1.300	Dec 2013	-		1.300	Continuing	Continuing	Continuing
Software Development	C/CPFF	Lockheed Martin:Denver Colorado	0.382	0.250	Oct 2011	0.255	Dec 2012	0.467	Dec 2013	-		0.467	Continuing	Continuing	Continuing
Subtotal			1.272	0.926		1.103		1.767		0.000		1.767			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	C/CPFF	Lockheed Martin:Denver Colorado	0.000	0.000		0.000		0.250	Dec 2013	-		0.250	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		0.000		0.250		0.000		0.250			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	C/CPFF	Booz Allen Hamilton:Virgina, Mclean	0.039	0.053	Nov 2011	0.067	Dec 2012	0.123	Dec 2013	-		0.123	Continuing	Continuing	Continuing
Subtotal			0.039	0.053		0.067		0.123		0.000		0.123			
			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			1.311	0.979		1.170		2.140		0.000		2.140			
Remarks															

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PE 0304231N: *Tactical Command System - MIP* **UNCLASSIFIED** R-1 Line #136  
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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Navy			<b>DATE:</b> April 2013
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0304231N: <i>Tactical Command System - MIP</i>	<b>PROJECT</b> 2009: <i>OSIS Evolutionary Development (OED)</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 2009</b>				
RM Test & Evaluation Milestone - CT&E - RM Version 5.1	3	2012	3	2012
RM Test & Evaluation Milestone - CT&E - RM Version 6.0	4	2014	4	2014
RM Test & Evaluation Milestone - CT&E - RM Version 6.x	1	2016	1	2016
RM Test & Evaluation Milestone - CT&E - RM Version 7.0	4	2017	4	2017
RM Software - Delivery of RM Version 5.1	2	2013	2	2013
RM Software - Delivery of RM Version 6.0	1	2015	1	2015
RM Software - Delivery of RM Version 6.x	2	2016	2	2016
RM Software - Delivery of RM Version 7.0	4	2018	4	2018