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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2013 Navy	<b>DATE:</b> February 2012
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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				PE 0304231N: <i>Tactical Command System - MIP</i>							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	1.311	0.979	1.170	-	1.170	1.141	1.172	1.148	1.168	Continuing	Continuing
2009: <i>OSIS Evolutionary Development (OED)</i>	1.311	0.979	1.170	-	1.170	1.141	1.172	1.148	1.168	Continuing	Continuing

**Note**

Resources were transferred from PE 0604231N to PE 0304231N beginning in FY11.

**A. Mission Description and Budget Item Justification**

Trusted Information Systems (TIS): 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. With the aid of a reliable human reviewer, RM can process nonstandard messages, such as messages with National Imagery Transmission Format (NITF) products and other non/semi-formatted file types. It enables Combat 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 FY13: Develop Radiant Mercury Version 6.0 to run on Security Enhanced (SE) Linux which removes dependency on proprietary vendor products. Conduct Certification Test and Evaluation of RM 6.0.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Previous President's Budget	1.318	0.979	1.170	-	1.170
Current President's Budget	1.311	0.979	1.170	-	1.170
Total Adjustments	-0.007	-	-	-	-
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Congressional General Reductions	-0.007	-	-	-	-
Adjustments					

**Change Summary Explanation**

Schedule : Delivery of RM Version 6.X Slipped from 3Q 2015 to 1Q 2016 due to NSA Schedule delays.  
Delivery of RM Version 5.1 accelerated from 4Q 2012 to 3Q 2012.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0304231N: Tactical Command System - MIP	
Technical: Not Applicable.		

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0304231N: Tactical Command System - MIP				PROJECT 2009: OSIS Evolutionary Development (OED)			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
2009: OSIS Evolutionary Development (OED)	1.311	0.979	1.170	-	1.170	1.141	1.172	1.148	1.168	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**Note**

Resources were transferred from PE 0604231N to PE 0304231N beginning in FY11.

**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, Department of Defense (DoD), and 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 Radiant Mercury. RM enables operation in a multi-national environment.

TIS RM provides automated, bi-directional sanitization, transliteration, and guarding capability for formatted and unformatted data between security enclaves. Radiant Mercury 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 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. Additionally, it assists in providing critical operational information to intelligence and cryptologic analysts. 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 (GCCS-M) and 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 FY13: Develop Radiant Mercury Version 6.0 to run on Security Enhanced (SE) Linux which removes dependency on proprietary vendor products. 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, Department of Defense (DoD), and Intelligence communities.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<b>Title:</b> Radiant Mercury	1.311	0.979	1.170
<b>Articles:</b>	0	0	0

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy							DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: 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 2011	FY 2012	FY 2013	
<b>FY 2011 Accomplishments:</b> Developed and tested RM version 5.0.1 Identified and defined emerging requirements for RM version 5.0.1 to meet Navy and non-Navy Cross Domain Solution (CDS) requirements. Conducted RM software version 5.0.1 certification tests by Defense Intelligence Agency (DIA) and risk assessment by National Security Agency (NSA). Identified and defined emerging requirements for RM version 5.1 to meet other Navy and non-Navy Cross Domain Solution (CDS) requirements.										
<b>FY 2012 Plans:</b> Develop RM Version 5.1 based upon user feedback. The next RM incremental update will include improvements identified by operational commands and remedies to shortfalls as identified in the Unified Cross Domain Management Office (UCDMO) roadmap. Continue to develop and Integrate Radiant Mercury into PEO-C4I Program Offices evolving architectures to include Consolidated Afloat Networks and Enterprise Services (CANES).										
<b>FY 2013 Plans:</b> Develop Radiant Mercury Version 6.0 to run on Security Enhanced (SE) Linux which removes dependency on proprietary vendor products. 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, Department of Defense (DoD), and Intelligence communities.										
Accomplishments/Planned Programs Subtotals							1.311	0.979	1.170	
C. Other Program Funding Summary (\$ in Millions)										
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete
• OPN/2608: GCCS-M (TIS)	0.336	0.426	0.448	0.000	0.448	0.399	0.412	0.377	0.383	Continuing
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 production and 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										

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2013 Navy		<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>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>
program operating are generated from the fee-for-service model by charging customers Life Cycle Surcharge (LCS) on all new task orders and Annual User Fee (AUF) on all operational RM systems currently fielded.		
<b><u>E. Performance Metrics</u></b> 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. Complete 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 660 fielded.		

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2013 Navy											<b>DATE:</b> February 2012		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>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>					

  

<b>Product Development (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Systems Engineering	C/CPFF	Lockheed Martin:Denver Colorado	0.890	0.676	Oct 2011	0.848	Oct 2012	-		0.848	0.000	2.414	
Software Development	C/CPFF	Lockheed Martin:Denver Colorado	0.382	0.250	Oct 2011	0.255	Oct 2012	-		0.255	0.000	0.887	
<b>Subtotal</b>			1.272	0.926		1.103		-		1.103	0.000	3.301	

  

<b>Management Services (\$ in Millions)</b>				<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Program Management Support	C/CPFF	Booz Allen Hamilton:Virgina, Mclean	0.039	0.053	Nov 2011	0.067	Nov 2012	-		0.067	Continuing	Continuing	Continuing
<b>Subtotal</b>			0.039	0.053		0.067		-		0.067			

  

			<b>Total Prior Years Cost</b>	<b>FY 2012</b>		<b>FY 2013 Base</b>		<b>FY 2013 OCO</b>		<b>FY 2013 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			1.311	0.979		1.170		-		1.170			

  

**Remarks**

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0304231N: <i>Tactical Command System - MIP</i>	PROJECT 2009: <i>OSIS Evolutionary Development (OED)</i>

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2013 Navy			<b>DATE:</b> February 2012
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>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><i>Proj 2009</i></b>				
RM Software - Delivery of RM Version 5.0.1	3	2011	3	2011
RM Software - Delivery of RM Version 5.1	3	2012	3	2012
RM Software - Delivery of RM Version 6.0	4	2013	4	2013
RM Software - Delivery of RM Version 6.x	1	2016	1	2016
RM Test & Evaluation Milestone - CT&E - RM Version 5.0.1	2	2011	2	2011
RM Test & Evaluation Milestone - CT&E - RM Version 5.1	2	2012	2	2012
RM Test & Evaluation Milestone - CT&E - RM Version 6.0	3	2013	3	2013
RM Test & Evaluation Milestone - CT&E - RM Version 6.x	4	2015	4	2015
RM Test & Evaluation Milestone - CT&E - RM Version 7.0	4	2017	4	2017