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**Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy** **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b>				<b>R-1 ITEM NOMENCLATURE</b>							
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>							
<b>COST (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	-	1.318	0.979	-	0.979	1.170	1.143	1.175	1.151	Continuing	Continuing
2009: <i>OSIS Evolutionary Development (OED)</i>	-	1.318	0.979	-	0.979	1.170	1.143	1.175	1.151	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 and operational commanders, afloat and ashore, to disseminate and receive critical operational and intelligence information with coalition and allied forces.

Major Focus Area for FY12: Identify and define emerging requirements for RM Version 5.x to meet Consolidated Afloat Network and Enterprise Services (CANES) and other Navy and non-Navy Cross Domain Solution (CDS) requirements. Develop RM Version 5.x based upon user feedback. Continue to develop and integrate Radiant Mercury into PEO-C4I Program Offices evolving architectures.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
Previous President's Budget	-	1.318	1.081	-	1.081
Current President's Budget	-	1.318	0.979	-	0.979
Total Adjustments	-	-	-0.102	-	-0.102
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	-	-	-0.102	-	-0.102

**Change Summary Explanation**

Schedule : Certification Test and Evaluation 5.x schedule slipped from 4QFY11 to 2QFY12 due to NSA schedule delays. Certification Test and Evaluation 6.0 schedule slipped from 2QFY13 to 3QFY13 due to NSA schedule delays.

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**APPROPRIATION/BUDGET ACTIVITY**

1319: *Research, Development, Test & Evaluation, Navy*  
BA 5: *Development & Demonstration (SDD)*

**R-1 ITEM NOMENCLATURE**

PE 0304231N: *Tactical Command System - MIP*

Delivery of RM Version 5.x schedule slipped from 1QFY12 to 3QFY12 due to NSA certification schedule delays. Delivery of RM Version 6.0 schedule slipped from 3QFY13 to 4QFY13 due to NSA certification schedule delays.

Technical: Not Applicable.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2012 Navy **DATE:** February 2011

<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>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2009: <i>OSIS Evolutionary Development (OED)</i>	-	1.318	0.979	-	0.979	1.170	1.143	1.175	1.151	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, DoD, and Intelligence Community. TIS RM is a critical component of network-centric warfare, supporting joint operations and coalition forces world-wide. The ability to pass sensitive, yet critical, data across security domains and to our 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, and numerous other DoD and Intelligence agencies.

FY12: Develop RM Version 5.x 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. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2010	FY 2011	FY 2012
<b>Title:</b> Radiant Mercury	-	1.318	0.979
<b>Articles:</b>		0	0
<b>FY 2011 Plans:</b>			
Develop and test RM version 5.x. Identify and define emerging requirements for RM version 5.x to meet Navy and non-Navy Cross Domain Solution (CDS) requirements. Conduct RM software version 5.x certification tests by Defense Intelligence Agency			

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**Exhibit R-2A, RDT&E Project Justification:** PB 2012 Navy **DATE:** February 2011

<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>
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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	FY 2010	FY 2011	FY 2012
(DIA) and risk assessment by National Security Agency (NSA). Conduct security test and evaluation of RM version 5.x by Joint Interoperability Test Command (JITC). Identify and define emerging requirements for RM version 5.x to meet other Navy and non-Navy Cross Domain Solution (CDS) requirements.  <b>FY 2012 Plans:</b> Develop RM Version 5.x 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>Accomplishments/Planned Programs Subtotals</b>	-	1.318	0.979

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

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• OPN/2608: <i>GCCS-M (TIS)</i>	0.000	0.338	0.426	0.000	0.426	0.487	0.442	0.459	0.425	Continuing	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.

**E. Performance Metrics**  
Provide and develop certified, accredited Cross Domain Solution (CDS) and transfer capabilities to the Department of Defense 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.x 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.



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2012 Navy		<b>DATE:</b> February 2011
<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>

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Navy		<b>DATE:</b> February 2011
<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>Proj 2009</b>				
RM Software - Test and Integrate Capabilities needed by CANES/operational commands in version 5.x	1	2011	1	2011
RM Software - Delivery of RM Version 5.x	3	2012	3	2012
RM Software - Delivery of RM Version 6.0	4	2013	4	2013
RM Software - Delivery of RM Version 6.x	3	2015	3	2015
RM Test & Evaluation Milestone - CT&E - RM Version 5.x	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 Software - Test and Integrate Capabilities needed by CANES/operational commands in version 7.x	4	2016	4	2016