Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy

Date: February 2015

**Appropriation/Budget Activity** 

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 5: System

PE 0304231N / Tactical Command System - MIP

Development & Demonstration (SDD)

COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	3.362	2.140	1.011	0.998	-	0.998	1.007	1.037	1.067	1.089	Continuing	Continuing
2009: OSIS Evolutionary Development (OED)	3.362	2.140	1.011	0.998	-	0.998	1.007	1.037	1.067	1.089	Continuing	Continuing

## 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 FY16: Deliver 6.x and commence RM Version 7.0 development and begin the certification process.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	2.140	1.011	1.007	-	1.007
Current President's Budget	2.140	1.011	0.998	-	0.998
Total Adjustments	-	-	-0.009	-	-0.009
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
<ul> <li>Congressional Rescissions</li> </ul>	-	-			
<ul> <li>Congressional Adds</li> </ul>	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
Program Adjustments	-	-	-	-	-
Rate/Misc Adjustments	-	-	-0.009	-	-0.009

# **Change Summary Explanation**

PE 0304231N: Tactical Command System - MIP

Schedule:

- 1. Certification Test & Evaluation (CT&E) of Radiant Mercury (RM) Version 5.1 shifted from 3QFY13 to 1Q 2014
- 2. Delivery of RM Version 5.1 shifted from 4QFY13 to 1Q 2014

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Exhibit R-2A, RDT&E Project Ju	ustification:	PB 2016 N	lavy							Date: Febr	uary 2015	
Appropriation/Budget Activity 1319 / 5		R-1 Program Element (Number/Name) PE 0304231N / Tactical Command System - MIP  Project (Number/Name) 2009 / OSIS Evolutionary Develo										
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
2009: OSIS Evolutionary Development (OED)	3.362	2.140	1.011	0.998	-	0.998	1.007	1.037	1.067	1.089	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

## 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 (NCDOC), 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 FY16: Deliver RM Version 6.x. Begin development and certification process for RM Version 7.0.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: Radiant Mercury (RM)	2.140	1.011	0.998	-	0.998
Articles:	-	-	-	-	-
FY 2014 Accomplishments: Completed development of the Radiant Mercury (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. SE Linux allows the program to customize the Operating System (OS) for the RM application, increasing processing speed and improving security. Improved 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					

PE 0304231N: Tactical Command System - MIP

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Exhibit R-2A, RDT&E Project Ju	stification: PB	2016 Navy			,				Date: Feb	ruary 2015			
Appropriation/Budget Activity 1319 / 5						nent (Numb ctical Comm		roject (Number/Name) 109 I OSIS Evolutionary Development DED)					
B. Accomplishments/Planned P	rograms (\$ in N	Millions, Art	ticle Quantit	ies in Each	1		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total		
configure the system. Free and O mission assessment capabilities. (MGIF) to take advantage of softw Intelligence Communities (IC). Co	Enhanced Mess are and capabil	sage Analysi lities develo <sub>l</sub>	s Generator ped elsewhe	(MAG) Gene	eric Interfac	Functionalit							
FY 2015 Plans: Deliver RM Version 6.0. Begin the Factory Acceptance Testing (FAT development to ensure all system are sufficient, and formal testing will Independent Verification and Validalpha testing the software is provious (DIA) government labs for the action software will also be provided to Factoria and Independent Verification and Validalpha testing the software is provided to Factoria and Indexes and Indexes and Indexes are software will also be provided to Factoria and Indexes and Indexes are software will also be provided to Factoria and Indexes and Indexes and Indexes are software will also be provided to Factoria and Indexes and Indexes are software will also be provided to Factoria and Indexes and Indexes are software will also be provided to Factoria and Indexes and Indexes are software will also be provided to Factoria and Indexes and Indexes are software will also be provided to Factoria and Indexes and Indexes are software will also be provided to Factoria and Indexes and Indexes and Indexes are software will also be provided to Factoria and Indexes and Indexes are software will also be provided to Factoria and Indexes and Indexes and Indexes are software will also be provided to Factoria and Indexes are software will also be provided to Factoria and Indexes and Indexes and Indexes are software and Indexes and Indexes and Indexes are software and Indexes and Indexes are software and Indexes are software and Indexes are software and Indexes are software and Indexes are software and Indexes and Indexes are software and Indexes are software and Indexes and Ind	), alpha testing, s requirements which will be witredation (IV&V) teaded to the National certification a	and governing are tested processed by the arm and is seen and Isecurity and testing e	ment testing. roperly, dry-r ne governmen eparate from Agency (NS event. In para	FAT will income the FAT. Up to the FAT. Up to the FAT. Up to the FAT. Up to the selection t	lude test pro ensure the ting is cond oon success nse Intellige	procedures procedures ucted by the ful FAT and ence Agency							
FY 2016 Base Plans: Deliver RM Version 6.x. Begin the FAT, alpha testing, and governme requirements are tested properly, which will be witnessed by the government of the FAT. Upon successful FAT and labs for the actual certification and provided to RM customers who median in the successful factor of the actual certification and provided to RM customers who median in the successful factor of th	ent testing. FAT dry-run testing t vernment. Alpha id alpha testing d testing event. I	will include to ensure the atesting is cather the software in parallel to	test procedures e procedures onducted by e is provided	re developm are sufficie the IV&V tea to the NSA a	ent to ensur nt, and form am and is se and DIA gov	e all systems al testing eparate from ernment							
<b>FY 2016 OCO Plans:</b> N/A													
			Accomplish	nments/Plai	ned Progr	ams Subtota	2.140	1.011	0.998	-	0.998		
C. Other Program Funding Sum	mary (\$ in Milli	ons)											
Line Item • OPN/2608: Trusted Information System (TIS)	<b>FY 2014</b> 0.396	<b>FY 2015</b> 0.324	FY 2016 Base 0.284	<u>FY 2016</u> <u>OCO</u>	FY 2016 Total 0.284	<b>FY 2017</b> 0.290	<b>FY 2018</b> 0.295	<b>FY 2019</b> 0.302		Cost To Complete Continuing			

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy			Date: February 2015
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
1319 / 5	PE 0304231N / Tactical Command System -	2009 / OS/	S Evolutionary Development
	MIP	(OED)	
	·	•	

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

			FY 2016	FY 2016	FY 2016					Cost To	
Line Item	FY 2014	FY 2015	Base	OCO	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020	Complete	<b>Total Cost</b>

#### Remarks

Navy

## **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 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.

### **E. Performance Metrics**

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.

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 worldwide.

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2016 Navy	/								Date:	February	2015	
<b>Appropriation/Budg</b> 1319 / 5	et Activity	/							lumber/Na Command			t (Number OSIS Evo	,	Developm	nent
Product Developme	ent (\$ in M	n Millions)		FY 2	2014	FY 2	2015		2016 ase		2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contrac
Software Development	C/CPFF	Lockheed Martin : Denver, CO	2.505	1.552	Dec 2013	0.723	Dec 2014	0.713	Dec 2015	-		0.713	Continuing	Continuing	Continuir
Software Development	C/CPFF	Various : Various	0.000	0.231	Dec 2013	0.092	Dec 2014	0.091	Dec 2015	-		0.091	Continuing	Continuing	Continuir
		Subtotal	2.505	1.783		0.815		0.804		-		0.804	-	-	-
Support (\$ in Million	าร)			FY 2	2014	FY 2	2015		2016 ase		2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contrac
Requirements Analysis	C/CPFF	Various : Various	0.000	-		0.096	Dec 2014	0.095	Dec 2015	-		0.095	Continuing	Continuing	Continuir
Requirements Analysis	C/CPFF	BAH : San Diego, CA	0.614	0.357	Dec 2013	0.100	Dec 2014	0.099	Dec 2015	-		0.099	-	1.170	-
		Subtotal	0.614	0.357		0.196		0.194		-		0.194	-	-	-
Test and Evaluation	ı (\$ in Milli	ions)		FY 2	2014	FY 2	2015		2016 ase		2016 CO	FY 2016 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contrac
Certification Test	WR	SSC LANT : Charleston, SC	0.243	-		-		-		-		-	-	0.243	-
		Subtotal	0.243	-		-		-		-		-	-	0.243	-
								<b>5</b> 77	2016	EV.	2016	FY 2016	Cost To	Total	Target Value o
			Prior Years	FY 2	2014	FY 2	2015		ase		CO	Total	Complete	Cost	Contrac

Remarks

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Exhibit R-4, RDT&E Schedule Prof	ile: PB	2016	Navy															Dat	<b>e:</b> Febr	uar	y 2015	
Appropriation/Budget Activity 1319 / 5								<b>Progra</b> 030423									10		er/Nan olution		Develo	pmer
Proj 2009		FY 20	14	FY	2015		'	Y 2016			F	FY 2	017		FY	2018		FY 2	019		FY 20	20
	1Q	2Q30	4Q	1Q	2Q3	949	1Q	2Q	3Q	4Q1	Q20	330	4Q	10	2030	40	10	2Q3Q	4Q	1Q	2Q	3Q4
Test & Evaluation										$\Box$				П			П					П
Test & Evaluation Milestone - CT&E	Version 5.1 ▲		Version 6.0				Version 6.x ▲						Version 7.0 ▲						Version 7.x ▲			
Software Deliveries						T			П	T				П	Ť		П	$\sqcap$				
	Version 5.1 ▲			Version 6.0 ▲				Version 6.x								Version 7.0					Version 7.x •	

2016DON - 0304231N - 2009 CT&E of RM Version 5.1 shifted from 3Q 2013 to 1Q 2014 Delivery of RM Version 5.1 shifted from 4Q 2013 to 1Q2014

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
, · · · · · · · · · · · · · · · · · · ·	, ,	- , (	umber/Name) S Evolutionary Development

# Schedule Details

	Sta	art	En	ıd
Events by Sub Project	Quarter	Year	Quarter	Year
Proj 2009				
Test & Evaluation: Test & Evaluation Milestone - CT&E: RM Test & Evaluation Milestone - CT&E - RM Version 5.1	1	2014	1	2014
Test & Evaluation: Test & Evaluation Milestone - CT&E: RM Test & Evaluation Milestone - CT&E - RM Version 6.0	4	2014	4	2014
Test & Evaluation: Test & Evaluation Milestone - CT&E: RM Test & Evaluation Milestone - CT&E - RM Version 6.x	1	2016	1	2016
Test & Evaluation: Test & Evaluation Milestone - CT&E: RM Test & Evaluation Milestone - CT&E - RM Version 7.0	4	2017	4	2017
Test & Evaluation: Test & Evaluation Milestone - CT&E: RM Test & Evaluation Milestone - CT&E - RM Version 7.x	4	2019	4	2019
Software Deliveries: RM Software - Delivery of RM Version 5.1	1	2014	1	2014
Software Deliveries: RM Software - Delivery of RM Version 6.0	1	2015	1	2015
Software Deliveries: RM Software - Delivery of RM Version 6.x	2	2016	2	2016
Software Deliveries: RM Software - Delivery of RM Version 7.0	4	2018	4	2018
Software Deliveries: RM Software - Delivery of RM Version 7.x	2	2020	2	2020