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PE NUMBER: 0604754F
 PE TITLE: Tactical Data Link Integration

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2004
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604754F Tactical Data Link Integration
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Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	0.000	14.550	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4749 Link 16 System Integration	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4992 Family of Interoperable Operational Pictures (FIOP)	0.000	14.550	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

In FY05, PE 0604754F, Tactical Data Link Integration, Project #654992 efforts transferred to PE 0207443F, Family of Interoperable Operational Pictures (FIOP), Project #675137 in order to consolidate FIOP funding.

In FY03, PE 0604754F, Tactical Data Link Integration, Project #654749 efforts were transferred to PE 0207434F, Link 16 Support and Sustainment, Project #655050 in order to consolidate Tactical Data Link Infrastructure funding.

For FY03 FIOP Task 1 program details, see PE 0207434F, Link 16 Support and Sustainment, Project #655051. For FY04 Task 1 Details, see PE 0207438F, Theater Battle Management C4I, Project #654790. For FY04 Task 2 program details, see PE 0604754F, Tactical Data Link Integration, Project #654992 and PE 0603850F, Integrated Broadcast Service, Project #635151. For FY05 Task 1 and 2 details, see PE 0207443F, FIOP, Project #675137.

(U) A. Mission Description and Budget Item Justification

Tactical Data Link (TDL) integration employs the Joint Tactical Information Distribution System (JTIDS) and the Multifunction Information Distribution System (MIDS) terminals on multi-service platforms to broadcast Link 16 information to all participants operating within the network. TDLs provide interoperability, local and global connectivity, and situational awareness to the user when operating under rapidly changing operational conditions. TDL terminals are used by the Air Force, Army, Navy, and Marine Corps Theater Command and Control (C2) elements, weapons platforms, and sensors.

The Family of Interoperable Operational Pictures (FIOP) is a program designed to implement web-based technologies into Systems of Record, making their data, and thus the Common Operational Picture (COP) and the Common Tactical Picture, consistent throughout the Services and at all echelons of Combat Operations. The Joint Requirements Oversight Council (JROC) directed the FIOP program to "...provide an all-source picture of the Battlespace containing actionable, decision quality information through the fusion of existing databases" in JROC Memorandum 156-02. Ultimately, the FIOP effort will lead to the underpinnings of Network Centric Operational Warfare.

This program is in budget activity 5 (Engineering Manufacturing and Development) because it supports development, integration solutions, fielding, operational support activities, and support of special projects.

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(U) **B. Program Change Summary (\$ in Millions)**

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Previous President's Budget		14.675	24.720
(U) Current PBR/President's Budget	0.000	14.550	0.000
(U) Total Adjustments	0.000	-0.125	
(U) Congressional Program Reductions			
Congressional Rescissions		-0.125	
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			
(U) <u>Significant Program Changes:</u>			
FY05 funding transferred to PE0207443F (FIOP), #675137, as part of the FIOP funding consolidation.			

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0604754F Tactical Data Link Integration			PROJECT NUMBER AND TITLE 4992 Family of Interoperable Operational Pictures (FIOP)		
Cost (\$ in Millions)	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total
4992 Family of Interoperable Operational Pictures (FIOP)	0.000	14.550	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

In FY05, PE 0604754F, Tactical Data Link Integration, Project #654992 efforts transferred to PE 0207443F, Family of Interoperable Operational Pictures (FIOP), Project #675137 in order to consolidate FIOP funding.

For FY03 FIOP Task 1 program details, see PE 0207434F, Link 16 Support and Sustainment, Project #655051. For FY04 Task 1 Details, see PE 0207438F, Theater Battle Management C4I, Project #654790. For FY04 Task 2 program details, see PE 0604754F, Tactical Data Link Integration, Project #654992 and PE 0603850F, Integrated Broadcast Service, Project #635151. For FY05 Task 1 and 2 details, see PE 0207443F, FIOP, Project #675137.

(U) A. Mission Description and Budget Item Justification

The Family of Interoperable Operational Pictures (FIOP) is a program designed to implement web-based technologies into Systems of Record, making their data, and thus the Common Operational Picture (COP) and the Common Tactical Picture, consistent throughout the Services and at all echelons of Combat Operations. The Joint Requirements Oversight Council (JROC) directed the FIOP program to "...provide an all-source picture of the Battlespace containing actionable, decision quality information through the fusion of existing databases" in JROC Memorandum 156-02. Ultimately, the FIOP effort will lead to the underpinnings of Network Centric Operational Warfare.

This program is in budget activity 5 (Engineering Manufacturing and Development) because it supports development, integration solutions, fielding, operational support activities, and support of special projects.

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Joint Precision Fire Support		3.490	
--(U) Provide Joint Precision Fire Support application of the Tactical Common Operating Environment (COE) client to provide precision target information to multiple weapons platforms.			
(U) Tactical Datalink Integration With COP		1.800	
--(U) Develop Global Command and Control Systems/Air Defense Systems Integration (GCCS/ADSI) interface and Integrated Broadcast Service (IBS)/Link-16 interface to provide expeditious data flow and improved dissemination of near-real intelligence data.			
(U) Situation Awareness Data Interoperability (SADI)		2.500	
--(U) Develop two products: a Situational Awareness System Interface Control Document and a COE Situational Awareness Gateway Software Segment.			
(U) Develop Network Based Services		6.760	

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--(U) Develop Common Integrated Infrastructure (CII) components and node information services to provide infrastructure enablers that support FIOP tasks (eg, Ground Moving Target Indicators (GMTI) Services and or Meteorologic/Oceanographic (METOC) Services).

(U) Total Cost	0.000	14.550	0.000
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(U) **C. Other Program Funding Summary (\$ in Millions)**

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) RDT&E, AF									
(U) 0207434F (Link 16 Sup & Sus)	50.535	70.481	141.012	218.743	228.009	161.909	153.606	Continuing	TBD
(U) 0207438F (TBMC4I)	33.304	32.505	37.210	37.990	34.079	34.579	32.287	Continuing	TBD
(U) 0603850F (Integrated Broadcast System)	0.000	8.415	2.294	0.000	0.000	0.000	0.000	0.000	10.709

(U) **D. Acquisition Strategy**

JROC-directed activity to spiral develop, integrate, and sustain web-enabled COP capabilities that are interoperable with existing Service systems by identifying execution-level requirements and candidate solutions which will be tested and then migrated to Service Systems of Record for sustainment.

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Exhibit R-3, RDT&E Project Cost Analysis										DATE February 2004			
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0604754F Tactical Data Link Integration					PROJECT NUMBER AND TITLE 4992 Family of Interoperable Operational Pictures (FIOP)			
<u>(U) Cost Categories</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>FY</u>	<u>Cost to</u>	<u>Total</u>	<u>Target</u>	
(Tailor to WBS, or System/Item Requirements) (\$ in Millions)			<u>Prior to FY</u>	<u>2003</u>	<u>2003</u>	<u>2004</u>	<u>2004</u>	<u>2005</u>	<u>2005</u>	<u>Complete</u>	<u>Cost</u>	<u>Value of</u>	
			<u>2003</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>	<u>Cost</u>	<u>Award</u>			<u>Contract</u>	
			<u>Cost</u>		<u>Date</u>		<u>Date</u>		<u>Date</u>				
<u>(U) Product Development</u>													
Joint Precision Fire Support	MIPR	MARCORSYSCOM, Quantico VA				3.490	Feb-04			Continuing	TBD		
Tactical Datalink Integration With COP	MIPR	SPAWAR SYS COM, San Diego CA				1.800	Feb-04			Continuing	TBD		
Situation Awareness Data Interoperability	MIPR	PEO/C3T, Ft Monmouth NJ				2.500	May-04			Continuing	TBD		
Network Based Services	Various	Various				6.760	Feb-04			Continuing	TBD		
Subtotal Product Development			0.000	0.000		14.550		0.000		Continuing	TBD	0.000	
Remarks:													
<u>(U) Support</u>													
Subtotal Support			0.000	0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:													
<u>(U) Test & Evaluation</u>													
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:													
<u>(U) Management</u>													
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:													
<u>(U) Total Cost</u>			0.000	0.000		14.550		0.000		Continuing	TBD	0.000	

Exhibit R-4, RDT&E Schedule Profile

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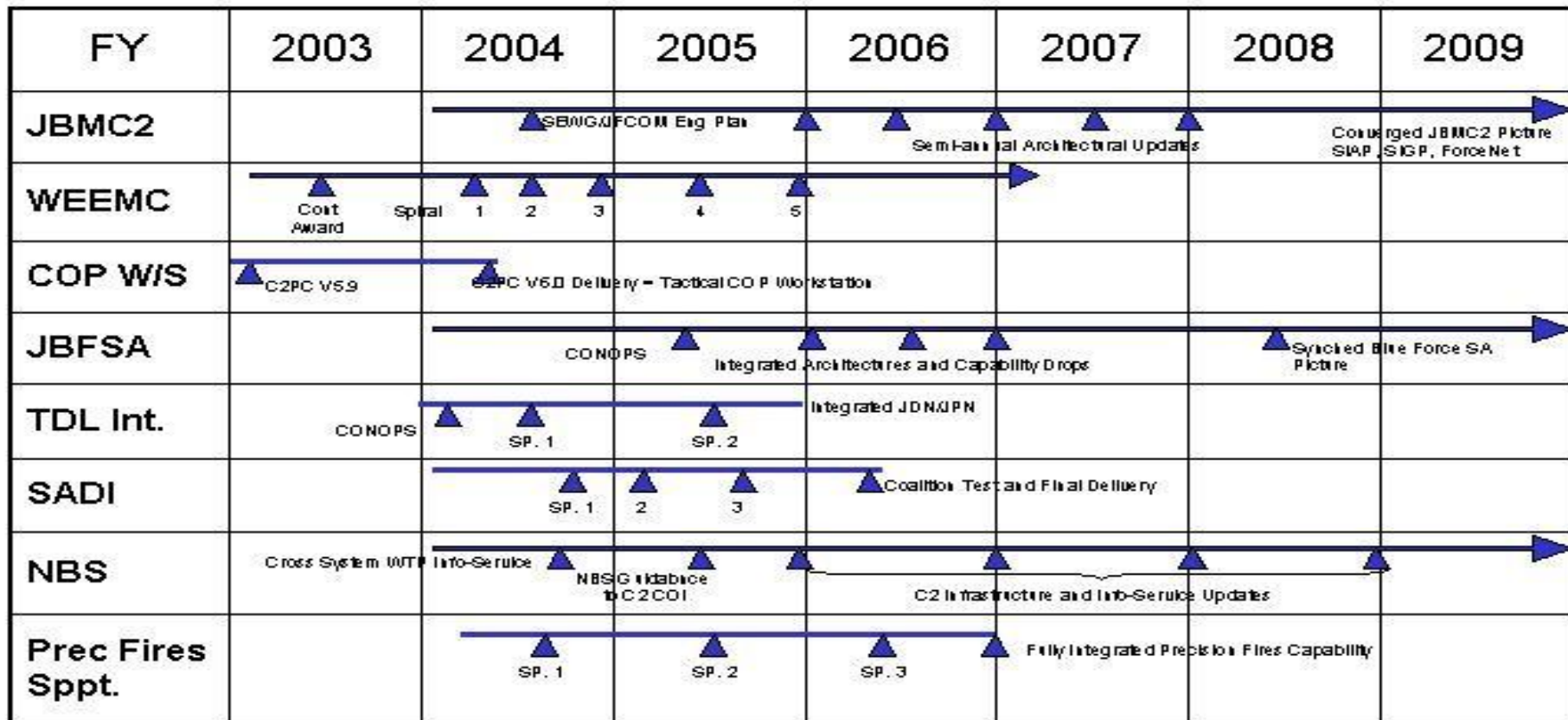
February 2004

BUDGET ACTIVITY
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE
0604754F Tactical Data Link
Integration

PROJECT NUMBER AND TITLE
4992 Family of Interoperable
Operational Pictures (FIOP)

FIOP Milestone Schedule



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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2004
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(U) <u>Schedule Profile</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
(U) Joint Precision Fire Support Spiral 1 Delivery		3Q	
(U) Tactical Data Link Integration CONOPS		2Q	
(U) Tactical Data Link Integration Spiral 1 Delivery		3Q	
(U) Situation Awareness Data Interoperability Spiral 1 Delivery		4Q	
(U) Network Based Services Cross-System Weapon Target Pairing Information Service		4Q	