

UNCLASSIFIED

PE NUMBER: 0604754F

PE TITLE: Tactical Data Link Integration

Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2005

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604754F Tactical Data Link Integration

Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	22.376	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4992 Family of Interoperable Operational Pictures (FIOP)	22.376	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

PROJECT #654749: 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.

PROJECT #654992: 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**

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 pilot in rapidly changing operational conditions. TDL terminals are used by all service 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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BUDGET ACTIVITY

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	14.550			
(U) Current PBR/President's Budget	22.376	0.000		
(U) Total Adjustments	7.826	0.000		
(U) Congressional Program Reductions				
Congressional Rescissions				
Congressional Increases				
Reprogrammings	8.326			
SBIR/STTR Transfer	-0.500			
(U) <u>Significant Program Changes:</u>				
FY05 funding transferred to PE0207443F (FIOP), #675137, as part of the FIOP funding consolidation.				
FY2004 Reprogrammings comprised of \$9+M for JEFX Blue Force Tracking.				

Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY					PE NUMBER AND TITLE			PROJECT NUMBER AND TITLE		
05 System Development and Demonstration (SDD)					0604754F Tactical Data Link Integration			4992 Family of Interoperable Operational Pictures (FIOP)		
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
4992 Family of Interoperable Operational Pictures (FIOP)	22.376	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	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.

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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 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</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			

Project 4992

R-1 Shopping List - Item No. 88-4 of 88-8

Exhibit R-2a (PE 0604754F)

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Exhibit R-2a, RDT&E Project Justification

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BUDGET ACTIVITY

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0604754F Tactical Data Link
Integration

PROJECT NUMBER AND TITLE

4992 Family of Interoperable
Operational Pictures (FIOP)

--(U) Develop two products: a Situational Awareness System Interface Control Document and a COE Situational Awareness Gateway Software Segment.

(U) Develop Network Based Services 6.260

--(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) Blue Force Tracking JEFX04 Initiative 8.326

--(U) Support the continued development, integration, operational experimentation and migration of a FIOP Blue Force Tracking initiative.

(U) Total Cost 22.376 0.000 0.000 0.000

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

	<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>FY 2010</u>	<u>FY 2011</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>Estimate</u>	<u>Complete</u>	
(U) RDT&E, AF										
(U) 0207443F (FIOP)	0.000	46.607	0.000	0.000	0.000	0.000	0.000	0.000		46.607
(U) 0207438F (TBMC4I)	5.723	0.000	0.000	0.000	0.000	0.000	0.000	0.000		5.723
(U) 0603850F (Integrated Broadcast System)	5.636	0.000	0.000	0.000	0.000	0.000	0.000	0.000		5.636
(U) O&M (3400)										
(U) 0207443F	0.000	0.000	0.072	0.145	0.156	0.168	0.165	0.168	Continuing	TBD

(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 2005		
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) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2004 Cost	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) <u>Product Development</u>														
Joint Precision Fire Support	MIPR	MARCORS YSCOM, 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		6.260	Feb-04							Continuing	TBD	
JEFX Blue Force Tracking Initiative	Various	Various		8.326	May-04								8.326	
Subtotal Product Development			0.000	22.376		0.000		0.000		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	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	0.000
Remarks:														
(U) <u>Management</u>														
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
(U) Total Cost			0.000	22.376		0.000		0.000		0.000		Continuing	TBD	0.000

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Exhibit R-4, RDT&E Schedule Profile		DATE February 2005
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)
<div>Project 4992</div> <div>R-1 Shopping List - Item No. 88-7 of 88-8</div> <div>Exhibit R-4 (PE 0604754F)</div>		

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Exhibit R-4a, RDT&E Schedule Detail

DATE

February 2005

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) Schedule ProfileFY 2004FY 2005FY 2006FY 2007

(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

(U) Blue Force Tracking JEFX04 Initiative

3Q