

UNCLASSIFIED

PE NUMBER: 0207434F

PE TITLE: Link 16 Support and Sustainment

Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2006

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0207434F Link 16 Support and Sustainment

Cost (\$ in Millions)	FY 2005 Actual	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	120.633	161.345	172.625	142.449	152.320	154.994	156.665	Continuing	TBD
5049 JINTACCS	8.734	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
5050 TDL System Integration	111.899	161.345	172.625	142.449	152.320	154.994	156.665	Continuing	TBD

In FY06, Project #655049 funding merged with Project #655050 since Project #655049 efforts include the development and deployment of Tactical Data Links, which is accomplished in Project #655050.

(U) **A. Mission Description and Budget Item Justification**

TDLs are used in a combat environment to exchange information such as messages, data, radar tracks, target information, platform status, imagery, and command assignments. TDLs provide interoperability, local and global connectivity, and situational awareness to the user when operating under rapidly changing operational conditions. TDLs are used by all Service theater Command and Control (C2) elements, weapons platforms, and sensors. TDLs include but are not limited to: Link 16, Link 11, Situational Awareness Data Link (SADL), and Variable Message Format (VMF).

The Joint Interoperability of Tactical Command and Control Systems (JINTACCS) Program ensures platform/system interoperability through the development and management of the joint/combined architecture, tactical information exchange requirements (IERs), interface definitions and protocols, platform/system implementations, employment concepts, and operating procedures. This includes the coordination of all TDL and United States Message Text format (USMTF) message standards, USMTF configuration management, platform/system interoperability assessments, and interoperability certification testing. This program will participate in the development, testing, and implementation of international standards (to include NATO standardization agreements) to ensure joint, allied, and coalition interoperability.

Utilization of TDLs in a joint environment requires the integration of terminals [e.g., Joint Tactical Information Distribution System (JTIDS) or Multifunctional Information Distribution System (MIDS)] into host platforms, and designing interoperability of Link 16 networks across all deployed joint and allied platforms. The Tactical Data Networks (TDN) Squadron performs several cross-platform activities to ensure proper integration of Link 16 capabilities and interoperability of Link 16 networks. TDL efforts include incorporating changes and additions to the TDL message standard (MIL-STD-6016C) and incorporating Interoperable Systems Management and Requirements Transformation (iSMART), a process which enables network centric interoperability assessments to be made more quickly and effectively. In addition, the TDN Squadron has management responsibility for the Air Force's Air Defense Systems Integrator (ADSI) systems.

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 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	134.547	157.677	184.100
(U) Current PBR/President's Budget	120.633	161.345	172.625
(U) Total Adjustments	-13.914	3.668	
(U) Congressional Program Reductions			
Congressional Rescissions	-0.174	-2.332	
Congressional Increases		6.000	
Reprogrammings	-10.000		
SBIR/STTR Transfer	-3.740		

(U) **Significant Program Changes:**

Beginning in FY05, the Family of Interoperable Pictures (FIOP) level of effort funding was transferred to PE 0207443F, Project #655137. In addition, funds in PE 0207434F for FY06-07 were re-aligned to support JTRS network-centric efforts in PE 0207423F.

In FY07, Single Integrated Air Picture (SIAP) funding transferred to PE 0207451F.

Additional changes to this program element include:

 Development of a high-altitude, tactical airborne objective gateway system

 JICO Support System development testing, certification testing, and multi-service operational test & evaluation

 Link 16 network modifications for improved throughput and interservice interoperability

Exhibit R-2a, RDT&E Project Justification

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05 System Development and Demonstration (SDD)

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PROJECT NUMBER AND TITLE

5049 JINTACCS

Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5049 JINTACCS	8.734	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		

In FY06, Project #655049 funding will be consolidated into Project #655050 since these efforts include the development and deployment of Tactical Data Links.

(U) **A. Mission Description and Budget Item Justification**

The Joint Interoperability of Tactical Command and Control Systems (JINTACCS) Program is a Joint Staff-directed program that provides the sole Air Force (AF) activity responsible for ensuring the interoperability of AF Tactical Data Links (TDLs) [including, but not limited to Tactical Digital Information Links (TADILs) and Variable Message Formats (VMF)] and United States Message Text Format (USMTF) systems with the associated Joint and allied/coalition systems. The requirements for the program are delineated in DoDD 4630.5, DoDD 4630.8, CJCSI 6212.01B, and AFI 33-108. The program ensures platform/system interoperability through the development and management of the joint/combined architecture, tactical information exchange requirements (IERs), interface definitions and protocols, platform/system implementations, employment concepts, and operating procedures. This includes the coordination of all TDL and USMTF message standards configuration management, platform/system interoperability assessments and interoperability certification testing. Air Force platforms/systems participating in, and affected by, this program include, but are not limited to: Airborne Warning and Control System (AWACS); Modular Control Elements (MCE); Air Operations Centers (AOC); Joint Surveillance Target Attack Radar System (JSTARS); F-15 A/B/C/D/E; F-16 Block 30/40/50; F/A-22; A/OA-10; Joint Strike Fighter (JSF); Airborne Laser (ABL); B-1; B-2; B-52; F-117; RC-135; Regional/Sector Air Operations Centers (RAOC/SAOC), Command & Control Information Processing System (C2IPS); Space Based Infrared System (SBIRS); Air Support Operations Centers (ASOC); and Tactical Air Control Parties (TACPs), Theater Battle Management Core Systems (TBMCS), Contingency Automated Theater Automated Planning System (CTAPS), Combat Intelligence System (CIS), Air Defense System Integrator (ADSI), Distributed Common Ground System (DCGS), North American Aerospace Defense Command (NORAD)/United States Space Command (USSPACECOM) Warfighting Support System (N/UWSS), AWACS Digital Information Link, and Global Command and Control System (GCCS)-Air Force. The Air Force JINTACCS program supports the Assistant Secretary of Defense (ASD) directive on harmonization of US and NATO messages (e.g., Air Tasking Order and Air Control Order). This budget activity also includes TDL Roadmap configuration management and Interoperable System Management and Requirements Transformation (iSMART) implementation.

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 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Accomplishments/Planned Program			
(U) Interoperability Certification Testing. Specific platforms will be determined based on Link 16 message implementation, software upgrade, and system modification	0.645		
(U) US Message Text Formats Management and Updates	1.603		
- Support Joint, Allied/Coalition meetings and working groups			
- Support technology maturation for joint standards and DoD policy			

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Exhibit R-2a, RDT&E Project Justification

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Sustainment

PROJECT NUMBER AND TITLE

5049 JINTACCS

(U)	<u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>						
(U)	Tactical Data Link Management and Architecture Development.	5.176								
	- Support Tactical Data Link and VMF meetings and working groups									
	- Support implementation and interoperability engineering efforts with the F-16, B-52, B-1, B-2, F-117, and other weapon systems									
	- Support software systems engineering updates and interoperability with the F-15C, E-3, E-8, Control and Reporting Center/Control and Reporting Element (CRC/CRE), interoperable Systems Management and Requirements Transformation (iSMART), and other weapon systems									
(U)	Tactical Data Link Roadmap Requirements and Configuration Management.	1.310								
(U)	Total Cost	8.734	0.000	0.000						
(U)	<u>C. Other Program Funding Summary (\$ in Millions)</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>Complete</u>	
(U)	AF RDT&E									
(U)	0207445F (Fighter TDL)	35.668								35.668
(U)	0207446F (Bomber TDL)	76.568								76.568
(U)	0207448F (C2ISR TDL)	24.420							Continuing	TBD
(U)	Other APPN									
(U)	Aircraft Procurement, AF (3010)									
(U)	0207434F (Link 16 Sup & Sus)	2.046							Continuing	TBD
(U)	0207445F (Fighter TDL)	95.934								95.934
(U)	0207446F (Bomber TDL)	44.245								44.245
(U)	O&M, AF (3400)									
(U)	0207434F (Link 16 Sup & Sus)	9.549							Continuing	TBD
(U)	0401839F (Airlift TDL)	0.596							Continuing	TBD
(U)	Other Procurement, AF (3080)									
(U)	0207434F (Link 16 Sup & Sus)	26.231							Continuing	TBD
(U)	<u>D. Acquisition Strategy</u>									
	As the Air Force lead agent for a jointly directed program, JINTACCS provides level of effort technical support for increasing interoperability of AF programs through message text and data link standards implementation.									

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Exhibit R-3, RDT&E Project Cost Analysis

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(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Award</u> <u>Date</u>	<u>FY 2006</u> <u>Cost</u>	<u>FY 2006</u> <u>Award</u> <u>Date</u>	<u>FY 2007</u> <u>Cost</u>	<u>FY 2007</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
(U) <u>Product Development</u>												
MITRE - Systems Engineering	SS/FFP	MITRE, Bedford MA		5.901	Dec-04					0.000	5.901	14.898
USMTF Standards Support	C/CPFF	B3H, Hampton VA		0.625	Dec-04					0.000	0.625	3.573
TDL Integration and Requirements	C/CPFF	Odyssey, Hampton VA		1.368	Dec-04					0.000	1.368	3.180
Subtotal Product Development			0.000	7.894		0.000		0.000		0.000	7.894	21.651
Remarks:												
(U) <u>Test & Evaluation</u>												
AF Participating Test Unit (PTU)	MIPR	ACC/SC, Langley AFB VA		0.480	Jan-05					0.000	0.480	1.465
Subtotal Test & Evaluation			0.000	0.480		0.000		0.000		0.000	0.480	1.465
Remarks:												
(U) <u>Management</u>												
Program Office and Contractor Support	C/FFP	Various		0.360	Dec-04						0.360	1.084
Subtotal Management			0.000	0.360		0.000		0.000		0.000	0.360	1.084
Remarks:												
(U) Total Cost			0.000	8.734		0.000		0.000		0.000	8.734	24.200

Exhibit R-4, RDT&E Schedule Profile

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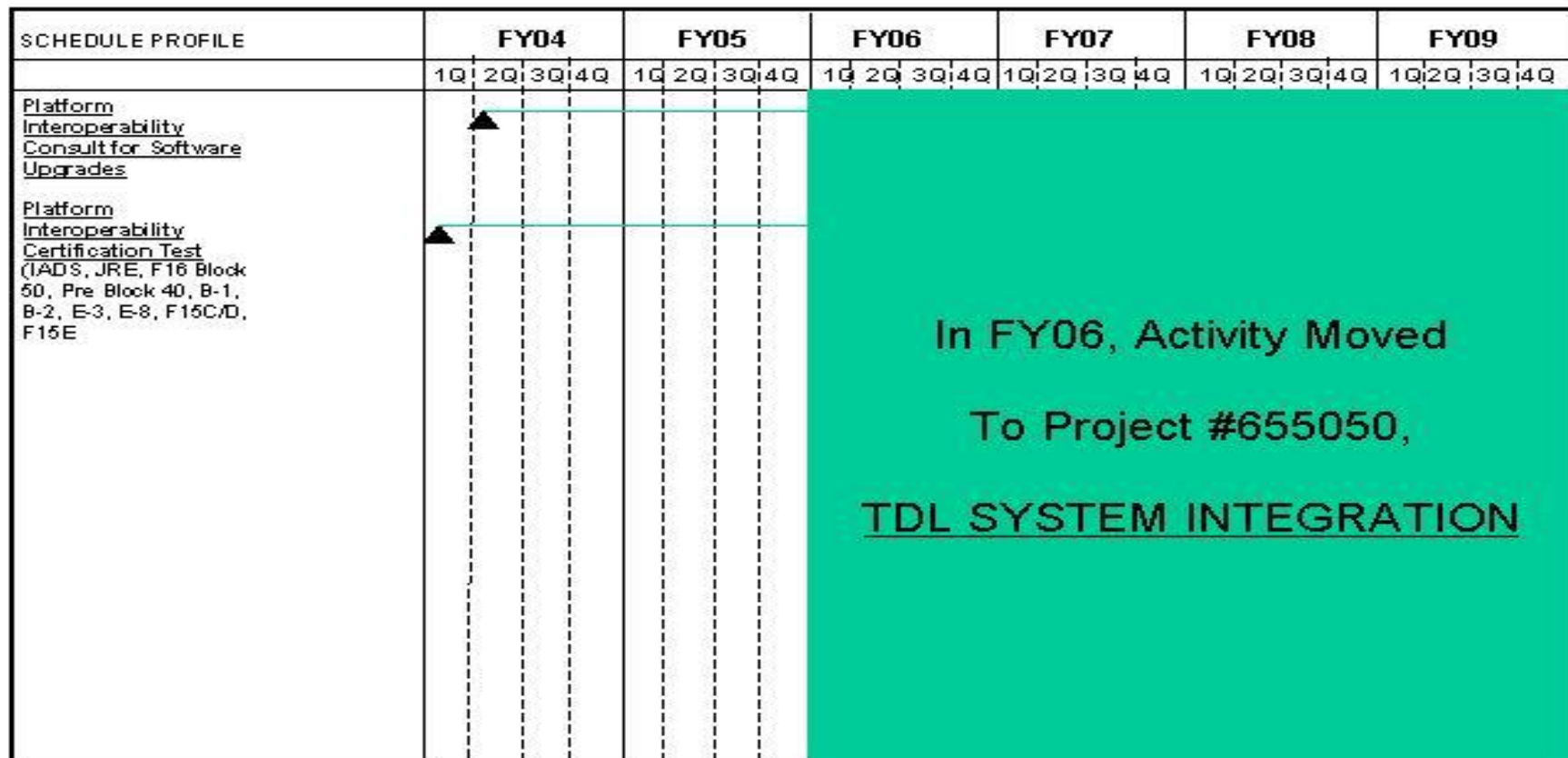
05 System Development and Demonstration (SDD)

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**Legend**Contract Award  Development  Testing  Delivery 

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Exhibit R-4a, RDT&E Schedule Detail

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05 System Development and Demonstration (SDD)

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PROJECT NUMBER AND TITLE

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(U) Schedule ProfileFY 2005FY 2006FY 2007

(U) Platform Interoperability Consultation for Software Upgrades

1-4Q

(U) Iceland Air Defense System Interoperability Tests

3Q

(U) Joint Range Extension Interoperability Tests

3Q

(U) F-16 Block 50 Interoperability Tests

1-2Q

(U) F-16 Pre-Block 40 Interoperability Tests

3-4Q

(U) B-1 Interoperability Tests

1-2Q

(U) B-2 Interoperability Tests

3-4Q

(U) E-3 AWACS Interoperability Tests

1-2Q

(U) E-8 JSTARS Interoperability Tests

3-4Q

(U) F-15C/D Interoperability Tests

1Q

(U) F-15E Interoperability Tests

2-3Q

Exhibit R-2a, RDT&E Project Justification

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05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0207434F Link 16 Support and Sustainment

PROJECT NUMBER AND TITLE

5050 TDL System Integration

Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
5050 TDL System Integration	111.899	161.345	172.625	142.449	152.320	154.994	156.665	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

In FY06, funding for the Joint Interoperability of Tactical Command and Control Systems (JINTACCS) program (currently residing in Project #655049) merged with Project #655050 resulting in the elimination of Project #655049.

In FY07 and out, funding for the Single Integrated Air Picture program (SIAP) (currently residing in PE 0207434F and PE 0207443F), will be moved to PE 0207451F.

(U) **A. Mission Description and Budget Item Justification**

Tactical Data Links (TDLs) are used in a combat environment to exchange information such as messages, data, radar tracks, target information, platform status, imagery, and mission assignments. TDLs provide interoperable data exchange, local and global connectivity, and situational awareness to the tactical user when operating under rapidly changing operational conditions. TDLs are used by the Air Force, Army, Navy, and Marine Corps Theater Command and Control (C2) Elements, weapons and sensor platforms.

TDLs include but are not limited to: Link 16, Link 11, Situational Awareness Data Link (SADL) and Variable Message Format (VMF).

The number of Air Force platforms hosting TDLs is expanding from C2 aircraft (E-3, E-8, etc.) into the fighter, bomber, ISR, tanker, airlift and other tactical fleets (F-15, F-16, F/A-22, Rivet Joint, B-1, B-2, B-52, etc.). Utilization of TDLs in a joint environment requires the integration of terminals into host platforms and interoperability of TDL networks across all deployed joint and allied platforms. Network Centric Transformation activities performed by the Tactical Data Networks (TDN) Squadron (previously the TDL System Program Office) include, but are not limited to; enabling and supporting the transformation to network-centric operations, Common Link Integration Processor (CLIP) software development, Network Enhanced Weapons (previously Weapons Data Link), analysis and integration efforts encompassing hardware, software, operational Link 16 enhancements, and training and logistics development, certification of individual TDL implementations to joint and allied standards, establishment of service-wide network management procedures and operations, system wide enhancements and test.

In addition, this project funds the integration of the Joint Interface Control Officer (JICO) - Support System (JSS) and TDL Gateways such as the Objective Gateway, the Joint Air Defense System Integrator (J-ADSI), the family of Joint Range Extension (JRE) functionality [which includes the JRE Transparent Multi-Platform Gateway (TMPG) Equipment Package (JTEP)], Pocket J, Enhanced Tactical Data Link and Data Display [previously called Link 16 Alaska (LAK)], and Beyond Line of Sight (BLOS) capabilities such as the Roll-on BLOS Enhancement (ROBE).

JINTACCS is a Joint Staff-directed program providing Air Force activities responsible for ensuring the interoperability of AF TDLs [including, but not limited to Tactical Digital Information Links (TADILs) and Variable Message Formats (VMF)] and United States Message Text Format (USMTF) systems with the associated Joint and allied/coalition systems. This includes the coordination of all TDL and USMTF message standards configuration management, platform/system interoperability assessments and interoperability certification testing. The Air Force JINTACCS program supports the Assistant Secretary of Defense (ASD) directive on harmonization of US and NATO messages (e.g., Air Tasking Order and Air Control Order). This budget activity also includes TDL Roadmap configuration

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Exhibit R-2a, RDT&E Project Justification			DATE February 2006		
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)		PE NUMBER AND TITLE 0207434F Link 16 Support and Sustainment		PROJECT NUMBER AND TITLE 5050 TDL System Integration	
management, Interoperable System Management and Requirements Transformation (iSMART) implementation. This program will participate in the development, testing, and implementation of international standards (to include NATO standardization agreements) to ensure joint, allied, and coalition interoperability.					
This activity 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)	<u>B. Accomplishments/Planned Program (\$ in Millions)</u>		<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U)	TDN MANAGEMENT AND INITIAL FIELDING:		15.840	21.275	24.089
	- Joint Interface Control Officer Support System (JSS): Finalizes risk reduction activities, down-selects to single development contractor, and provides development and test support of Engineering Development Models (EDM's).				
	- TDL Integration, Fielding and Support: Provides initial fielding support for units/platforms fielding a datalink capability. This support consists of organic and contractor teams that provide Tactics, Techniques & Procedures (TTP) training, equipment and operations expertise needed to set-up initial TDL OPS, and field installations. Develops Tactical Data Link architectures for implementation at USAF and Joint locations worldwide resulting in a 20%-100% increase in TDL mission capability. Supports USAF and Joint TDL experiments.				
(U)	NETWORK CENTRIC TRANSFORMATION:		16.265	45.740	55.455
	- Network Centric Transformation activities include, but are not limited to: enabling and supporting the transformation to network-centric operations, Common Link Integration Processor (CLIP) software development, Network Enhanced Weapons (previously Weapons Data Link), Network Centric Capability Assessment, and Network Centric Transformation.				
	- Maintain developmental equipment; test support; fielding/non-recurring training; network support; crypto support; spectrum support; gateway support; data link tool support; and support operational working groups				
(U)	GATEWAYS:		16.378	46.901	62.122
	- Efforts associated with Link 16 network management and network capability improvements--includes, but not limited to: Link 16 and other TDL Gateways and Interfaces, Near Term Gateways such as JRE, JTEP, TMPG, ADSI and Objective Gateway development.				
(U)	ROLL-ON BEYOND-LINE-OF-SIGHT ENHANCEMENT (ROBE):		8.344	2.897	0.657
	- Spiral 2 effort applied to the 40 ROBE-Spiral 1 equipped KC-135s (Group A and Group B kits). This effort will add capabilities such as, but not limited to: a Situational Awareness Data Link (SADL) gateway, Built in Test (BIT), Remote Control, and additional Satellite Communications (SATCOM) capability.				
(U)	TDN INTEROPERABILITY TEST AND CONFIGURATION MANAGEMENT:		7.277	17.927	19.723
	- JINTACCS Tactical Data Link Management, Architecture Development and Certification Testing.				
	- Implementation and interoperability scheduling with the F-16, B-52, B-1, B-2, F-117, and other weapon systems				
	- Software updates and interoperability testing with the F-15C, E-3, E-8, Control and Reporting Center/Control and				
Project 5050 R-1 Shopping List - Item No. 97-10 of 97-16 Exhibit R-2a (PE 0207434F)					

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)				PE NUMBER AND TITLE 0207434F Link 16 Support and Sustainment			PROJECT NUMBER AND TITLE 5050 TDL System Integration			
(U)	<u>B. Accomplishments/Planned Program (\$ in Millions)</u>						<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	
	Reporting Element (CRC/CRE), interoperable Systems Management and Requirements Transformation (iSMART), and other weapon systems.									
	- Tactical Data Link Roadmap Requirements, Configuration Management, and Air Force Participating Test Unit activities (AFPTU).									
(U)	TACTICAL DATA LINK ACQUISITION MANAGEMENT: Includes the TDN Squadron on-line collaboration tool [Integrated Digital Environment (IDE)], coalition interoperability management, contractor support and MITRE support						10.609	9.805	10.579	
(U)	CONGRESSIONAL ADDS:						6.400	6.000		
	- Enhanced TDL and Data Display (previously Link-16 Alaska)									
	- Pocket J: A deployable Link 16 capability for temporary, austere, or remote locations.									
(U)	SINGLE INTEGRATED AIR PICTURE:						30.786	10.800		
	- AF system engineering and infrastructure cost to execute SIAP initiatives.									
(U)	Total Cost						111.899	161.345	172.625	
(U)	<u>C. Other Program Funding Summary (\$ in Millions)</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>Complete</u>	
(U)	AF RDT&E									
(U)	0207445F (Fighter TDL)	35.668	119.965	113.388	81.084	38.626	34.714	0.000	Continuing	TBD
(U)	0207446F (Bomber TDL)	76.568	142.800	168.168	94.889	0.000	0.000	0.000	Continuing	TBD
(U)	0207448F (C2ISR TDL)	24.420	14.627	4.338	1.801	1.731	1.697	1.633		50.247
(U)	0401839F (Airlift TDL)	0.000	0.000	32.099	0.000	0.000	0.000	0.000		32.099
(U)	Other APPN									
(U)	Aircraft Procurement, AF (3010)									
(U)	0207423F (JTRS I&I)	0.000	0.000	0.000	19.472	26.521	66.948	42.346	Continuing	TBD
(U)	0207434F (Link 16 Sup & Sus)	2.046	2.996	2.783	0.000	9.598	9.846	9.962	Continuing	TBD
(U)	0207445F (Fighter TDL)	95.934	89.222	61.623	12.688	0.000	0.000	0.000		259.467
(U)	0207446F (Bomber TDL)	44.245	21.940	11.818	4.456	0.000	0.000	0.000		82.459
(U)	0401839F (Airlift TDL)	0.000	24.118	11.539	14.616	12.603	26.263	26.591	Continuing	TBD
(U)	O&M, AF (3400)									
(U)	0207434F (Link 16 Sup & Sus)	9.549	21.112	10.156	12.279	16.177	16.629	16.975	Continuing	TBD
(U)	0401839F (Airlift TDL)	0.596	2.731	5.708	11.783	16.499	17.178	17.271	Continuing	TBD
Project 5050		R-1 Shopping List - Item No. 97-11 of 97-16						Exhibit R-2a (PE 0207434F)		

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05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

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Sustainment

PROJECT NUMBER AND TITLE

5050 TDL System Integration

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

(U) Other Procurement, AF (3080)

(U) 0207434F (Link 16 Sup & Sus) 26.231 42.462 30.740 12.777 8.435 8.508 8.612 Continuing TBD

(U) D. Acquisition Strategy

The Air Force Tactical Data Networks Squadron provides common enterprise management for development, integration, and interoperability across all Air Force platforms. It ensures tactical data links are procured and maintained as a joint, end-to-end, command and control system using evolutionary acquisition approaches and a combination of sole source and open competition contracts.

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Exhibit R-3, RDT&E Project Cost Analysis

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PROJECT NUMBER AND TITLE

5050 TDL System Integration

(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Award</u> <u>Date</u>	<u>FY 2006</u> <u>Cost</u>	<u>FY 2006</u> <u>Award</u> <u>Date</u>	<u>FY 2007</u> <u>Cost</u>	<u>FY 2007</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>of Contract</u>
(U) <u>Product Development</u>												
-TDN Management and Initial Fielding (JSS, IFS)	Various	Various		15.840	Jun-05	21.275	Nov-05	24.089	Nov-06	Continuing	TBD	TBD
-Network Centric Transformation (CLIP, JAN-TE, NEW, NCCA, TSR, LET)	Various	Various		15.688	Mar-05	42.733	Dec-05	47.496	Dec-06	Continuing	TBD	TBD
-Gateways (OG, Global Hawk/MMP, JRE, JTEP, TPMG, ADSI, ROBE)	Various	Various		24.722	Dec-04	49.798	Dec-05	62.779	Dec-06	Continuing	TBD	TBD
-TDN Interoperability Test and Configuration Management (AFPTU, JINTACCS, iSMART)	Various	Various		7.277	Feb-05	17.927	Dec-05	19.723	Dec-06	Continuing	TBD	TBD
-TDL Acquisition Management (IDE NEXUS, Coalition Interoperability)	Various	Various		0.249	Nov-04	0.423	Nov-05	0.708	Nov-06	Continuing	TBD	TBD
-Single Integrated Air Picture (SIAP)	Various	Various		30.786	Jan-05	10.800	Dec-05	0.000		0.000	41.586	0.000
-* Enhanced TDL & Data Display (LAK)	C/CPFF	Pro-Logic, Inc., Manassas, VA		3.000	Apr-05	3.000	Feb-06			0.000	6.000	17.898
-* Pocket J	SS/TBD	Pro-Logic, Inc., Fairmont, WV		3.400	Feb-05	3.000	Feb-06			0.000	6.400	7.700
Subtotal Product Development			0.000	100.962		148.956		154.795		Continuing	TBD	TBD
Remarks:	* Supports the Congressional Add - is a Small Business Set-Aside program award.											
(U) <u>Test & Evaluation</u>												
-46th Test Squadron	MIPR	46th Test Squadron, Eglin AFB FL		0.577	Dec-04	3.007	Dec-05	7.959	Dec-06	Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	0.577		3.007		7.959		Continuing	TBD	TBD
Remarks:												
(U) <u>Management</u>												
-Program Office and Contractor Support	C/FFP	Various		10.360	Dec-04	9.382	Dec-05	9.871	Dec-06	Continuing	TBD	TBD
Subtotal Management			0.000	10.360		9.382		9.871		Continuing	TBD	TBD
Remarks:												
(U) Total Cost			0.000	111.899		161.345		172.625		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2006

BUDGET ACTIVITY

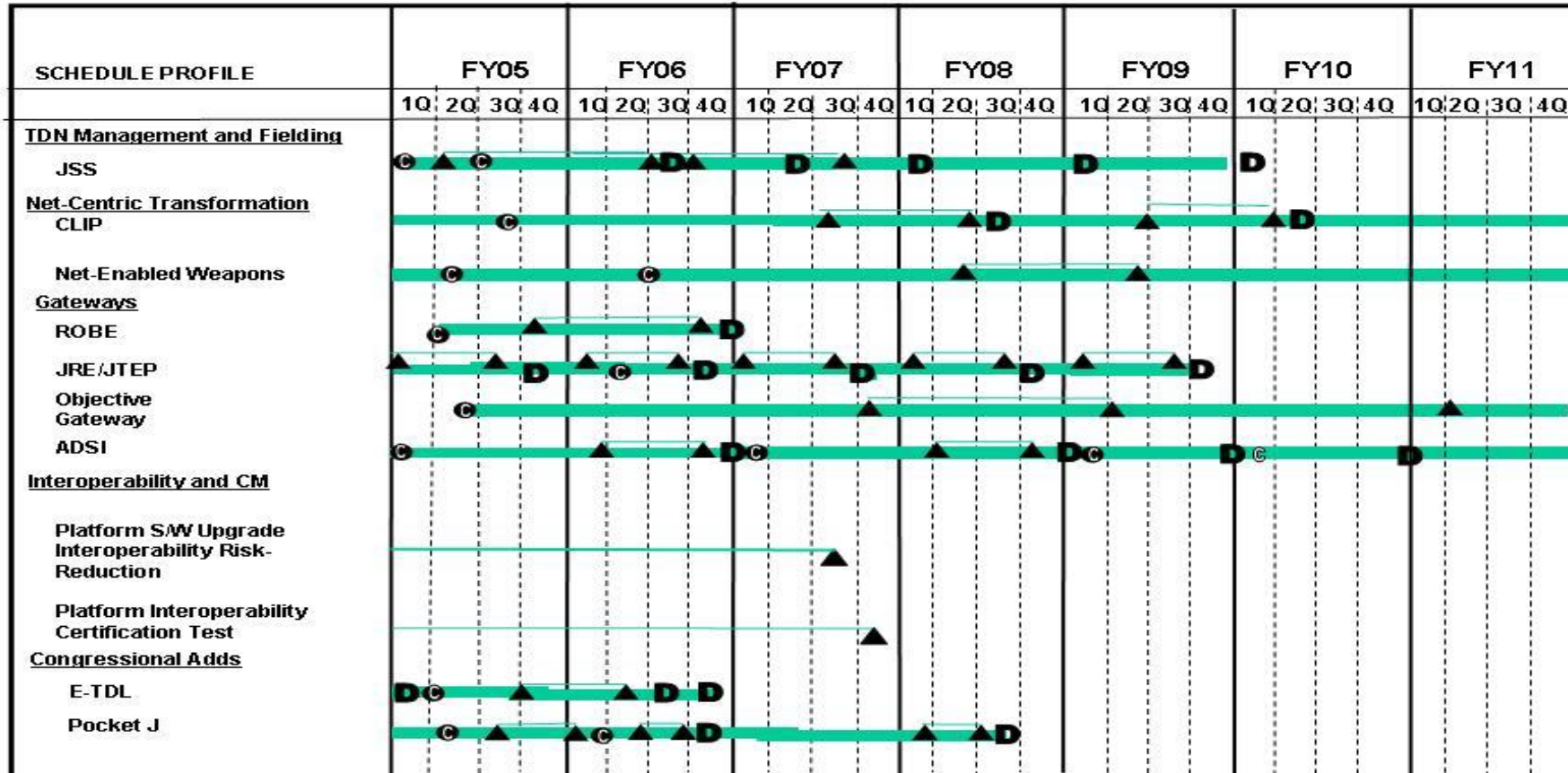
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0207434F Link 16 Support and
Sustainment

PROJECT NUMBER AND TITLE

5050 TDL System Integration

**Legend**

Contract Award C Development ■ Testing ▲ Delivery D

UNCLASSIFIED

Exhibit R-4a, RDT&E Schedule Detail			DATE	
			February 2006	
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE		
05 System Development and Demonstration (SDD)	0207434F Link 16 Support and Sustainment	5050 TDL System Integration		
(U) <u>Schedule Profile</u>	FY 2005	FY 2006	FY 2007	
(U) ADSI Contract Award	1Q			
(U) ADSI Development	1-4Q	1-4Q	1-4Q	
(U) ADSI Test & Certification		2-4Q		
(U) ADSI Product Delivery			1Q	
(U) ROBE Contract Award	2Q			
(U) ROBE Development	2-4Q	1-4Q		
(U) ROBE Test & Certification	4Q	1-4Q		
(U) ROBE Product Delivery			1Q	
(U) CLIP Contract Award	1Q			
(U) CLIP Development	1-4Q	1-4Q	1-4Q	
(U) CLIP Test & Certification	2-4Q	2-4Q	1-3Q	
(U) CLIP Product Delivery			4Q	
(U) E-TDL Contract Award	2Q			
(U) E-TDL Development	1-4Q			
(U) E-TDL Test & Certification	4Q			
(U) E-TDL Product Delivery	1Q			
(U) JSS Contract Award	3Q			
(U) JSS Development	1-4Q	1-4Q	1-4Q	
(U) JSS Test & Certification	1-4Q	1-4Q	1-4Q	
(U) JSS Product Delivery			2Q	
(U) JRE/JTEP Contract Award		2Q		
(U) JRE/JTEP Development	1-4Q	1-4Q	1-4Q	
(U) JRE/JTEP Test & Certification	1-3Q	2-4Q	1-3Q	
(U) JRE/JTEP Product Delivery	4Q	4Q	4Q	
(U) POCKET J Contract Award	2Q			
(U) POCKET J Development	1-4Q			
(U) POCKET J Test & Certification	3-4Q			
(U) Objective Gateway Contract Award	2Q			
(U) Objective Gateway Development	2-4Q	1-4Q	1-4Q	
(U) Objective Gateway Test & Certification		4Q		
(U) Net Enabled Weapons Contract Award	2Q			
(U) Net Enabled Weapons Development	2-4Q			
Project 5050	R-1 Shopping List - Item No. 97-15 of 97-16	Exhibit R-4a (PE 0207434F)		

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Exhibit R-4a, RDT&E Schedule Detail

DATE

February 2006

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0207434F Link 16 Support and
Sustainment

PROJECT NUMBER AND TITLE

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(U) Net Enabled Weapons Test & Certification

1Q

(U) Net Enabled Weapons Product Delivery

2Q