

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>February 2007</b>
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BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>	PE NUMBER AND TITLE <b>0207434F Link 16 Support and Sustainment</b>
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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	156.851	173.216	199.363	207.268	166.987	184.448	201.611	193.745	Continuing	TBD
5050 TDL System Integration	156.851	173.216	49.969	60.654	58.437	62.727	64.854	65.793	Continuing	TBD
5262 Family of Gateways	0.000	0.000	149.394	146.614	108.550	121.721	136.757	127.952	0.000	0.000

In FY08, Project 655262 was established to consolidate gateway efforts within the Link 16 Support & Sustainment program element. FY07 and prior funding for gateways is in Project 655050, Tactical Data Link (TDL) System Integration.

**(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 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), Variable Message Format (VMF), Integrated Broadcast Service (IBS), Intra-Flight Data Link (IFDL), Multifunction Advanced Data Link (MADL), and Tactical Targeting Network Technology (TTNT).

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 data link networks across all deployed joint and allied platforms. The 640th Electronic Systems Squadron (640th ELSS) performs several cross-platform activities to ensure proper integration of TDL capabilities and interoperability of TDL networks. TDL efforts include incorporating changes and additions to the Link 16 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. 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 program participates in the development, testing, and implementation of international standards (to include NATO standardization agreements) to ensure joint, allied, and coalition interoperability.

Gateway systems enable combat forces to exchange information quickly and accurately by bridging discrete airborne, terrestrial, and/or space-based C4ISR networks to produce operational effects not possible within individual networks. The AF continues to enhance the interoperability and capabilities of fielded gateways such as the Joint Air Defense System Integrator (JADSI), Joint Range Extension (JRE) functionality, Pocket J, and Roll-On Beyond-line-of-sight Enhancement (ROBE). The Objective Gateway (OG) program is developing a family of advanced gateway capabilities to enable a transition from legacy gateways with niche requirements and narrow user-sets. OG will be modular and scalable, with internet protocol (IP)-based networking capabilities that service theater-wide operational and tactical users. The OG program also includes an Interim OG, which is an initial, incremental deployment of gateway capability through rapid transition of Air Force and joint technology demonstrations/prototypes and off the shelf hardware and software applications. Common Link Integration Processing (CLIP) is an Air Force/Navy program to develop a common, reusable, configurable, and extensible tactical data link message processing solution for airborne maritime, and fixed-site systems.

## Exhibit R-2, RDT&amp;E Budget Item Justification

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February 2007

BUDGET ACTIVITY

**05 System Development and Demonstration (SDD)**

PE NUMBER AND TITLE

**0207434F Link 16 Support and Sustainment**

This program is in budget activity 5 (System Development and Demonstration (SDD)) because it supports mature system development, integration and demonstrations, initial fielding support activities, operational support activities, and support of special projects.

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

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	161.345	172.625	142.449	152.320
(U) Current PBR/President's Budget	156.851	173.216	199.363	207.268
(U) Total Adjustments	-4.494			
(U) Congressional Program Reductions		-0.351		
Congressional Rescissions	-0.005	-0.658		
Congressional Increases		1.600		
Reprogrammings				
SBIR/STTR Transfer	-4.489			

**(U) Significant Program Changes:**

In FY08/09, funding was added to expand the Objective Gateway program to provide an Interim Objective Gateway capability.

## Exhibit R-2a, RDT&amp;E Project Justification

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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE			
<b>05 System Development and Demonstration (SDD)</b>				<b>0207434F Link 16 Support and Sustainment</b>				<b>5050 TDL System Integration</b>			
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total	
5050 TDL System Integration	156.851	173.216	49.969	60.654	58.437	62.727	64.854	65.793	Continuing	TBD	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0			

Beginning in FY07, funding for the Single Integrated Air Picture program (SIAP) moved from PE 0207434F and PE 0207443F to PE 0207451F.

Beginning in FY08, all TDL funding for gateway programs moved from Project 655050 to new Project 655262, Family of Gateways.

(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 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), Variable Message Format (VMF), Integrated Broadcast Service (IBS), Intra-Flight Data Link (IFDL), Multifunction Advanced Data Link (MADL), and Tactical Targeting Network Technology (TTNT).

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-22A, 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 640th Electronic Systems Squadron (previously the Tactical Data Networks (TDN) Squadron) include, but are not limited to: enabling and supporting the transformation to network-centric operations, Common Link Integration Processor (CLIP) software development (moved to new Project 655262 beginning in FY08), Network Enabled 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 development and integration of the Joint Interface Control Officer (JICO) - Support System (JSS). JSS is an AF-led joint program to develop a TDL management toolkit to enable JICOs to plan multi-TDL architectures, manage data exchange requirements, execute and monitor a multi-TDL network, and respond to correct network deficiencies.

Prior to FY08, this project also funded development of TDL gateways such as the Objective Gateway, the Joint Air Defense System Integrator (JADSI), 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). Funding for all the gateway programs above moved to Project 655262 beginning in FY08.

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

**Exhibit R-2a, RDT&E Project Justification**

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BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>	PE NUMBER AND TITLE <b>0207434F Link 16 Support and Sustainment</b>	PROJECT NUMBER AND TITLE <b>5050 TDL System Integration</b>
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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 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 program is in Budget Activity 5 (System Development and Demonstration (SDD)) because it supports mature system development, integration and demonstrations, initial fielding support activities, and development of special projects.

(U) <b><u>B. Accomplishments/Planned Program (\$ in Millions)</u></b>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) TDN MANAGEMENT AND INITIAL FIELDING: - Joint Interface Control Officer Support System (JSS): Complete production representative development and system testing (DT&E, OT&E) required for FY08 Milestone C decision. - TDL Integration, Fielding and Support: Provides initial fielding support for units/platforms fielding a data link 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 operations and field installations. Develops TDL architectures for implementation at AF and Joint locations worldwide resulting in a 20%-100% increase in TDL mission capability. Supports AF and Joint TDL experiments.	21.042	39.569	12.788	11.402
(U) NETWORK CENTRIC TRANSFORMATION: - Network Centric Transformation activities including, but not limited to: enabling and supporting the transformation to network centric operations, Network Enabled Weapons (previously Weapons Data Link), Network Centric Capability Assessment, Link 16 network centric enhancements, Tactical Targeting Network Technology (TTNT), and Common Link Integration Processing (CLIP) software development. Beginning in FY08, CLIP funding moved to Project 655262. - 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.	41.825	49.568	15.301	25.276
(U) GATEWAYS: - Efforts associated with data link network management and network capability improvements, including, but not limited to: Link 16 and other TDL gateways and interfaces; existing gateways such as JRE, JTEP, TMPG, JADSI; and Objective Gateway development. Beginning in FY08, all gateway funding moved to Project 655262.	48.566	53.290		
(U) ROLL-ON BEYOND-LINE-OF-SIGHT ENHANCEMENT (ROBE): - Spiral 2 effort applied to the 40 ROBE-Spiral 1 equipped KC-135s (Group A and Group B kits). This	2.810	0.600		

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<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>	<b>PE NUMBER AND TITLE</b> <b>0207434F Link 16 Support and Sustainment</b>	<b>PROJECT NUMBER AND TITLE</b> <b>5050 TDL System Integration</b>
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<b>(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u></b>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
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. Funding ends for ROBE in FY07.				
<b>(U) TDN INTEROPERABILITY TEST AND CONFIGURATION MANAGEMENT:</b>	16.545	18.381	18.122	18.737
- JINTACCS Tactical Data Link management, architecture development and certification testing.				
- Implementation and interoperability scheduling with the A-10, F-15, F-16, B-52, B-1, B-2, and other weapon systems				
- Software updates and interoperability testing 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.				
- Tactical Data Link Roadmap Requirements, Configuration Management, and Air Force Participating Test Unit activities (AFPTU).				
<b>(U) TACTICAL DATA LINK ACQUISITION MANAGEMENT:</b> Includes the 640th ELSS on-line collaboration tool [Integrated Digital Environment (IDE)], coalition interoperability management, contractor support and MITRE support.	9.263	10.208	3.758	5.239
<b>(U) CONGRESSIONAL ADDS:</b>	6.000	1.600		
- Enhanced TDL and Data Display (previously Link-16 Alaska)				
- Pocket J: A deployable Link 16 capability for temporary, austere, or remote locations. Beginning in FY08, Pocket J funding moved to Project 655262.				
<b>(U) SINGLE INTEGRATED AIR PICTURE:</b>	10.800			
- AF system engineering and infrastructure cost to execute SIAP initiatives. Beginning in FY07, SIAP funding moved to PE 0207451F.				
<b>(U) Total Cost</b>	156.851	173.216	49.969	60.654

<b>(U) <u>C. Other Program Funding Summary (\$ in Millions)</u></b>	<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>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
<b>(U) AF RDT&amp;E (3600)</b>										
<b>(U) 0207445F (Fighter TDL)</b>	115.818	112.755	39.545	74.312	91.577	0.000	0.000	0.000	Continuing	TBD
<b>(U) 0207446F (Bomber TDL)</b>	133.836	100.744	37.130	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
<b>(U) 0207448F (C2ISR TDL)</b>	14.219	4.322	1.809	1.741	1.711	1.643	1.675	1.709		28.829
<b>(U) 0401839F (Airlift TDL)</b>	0.000	22.000	0.000	0.000	0.000	0.000	0.000	0.000		22.000

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Exhibit R-2a (PE 0207434F)

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

(U) Other APPN											
(U) Aircraft Procurement, AF (3010)											
(U) 0207434F (Link 16 Sup & Sus)	2.996	2.773	0.001	9.708	46.296	99.938	104.173	75.826	Continuing	TBD	
(U) 0207445F (Fighter TDL)	89.222	61.399	35.676	5.865	9.879	0.785	0.783	0.000		203.609	
(U) 0207446F (Bomber TDL)	21.940	11.775	4.518	0.000	0.000	0.000	0.000	0.000		38.233	
(U) 0401839F (Airlift TDL)	24.118	11.497	14.818	12.744	26.521	26.853	27.384	27.929	Continuing	TBD	
(U) O&M, AF (3400)											
(U) 0207434F (Link 16 Sup & Sus)	8.341	9.895	13.203	4.760	13.054	14.986	17.550	18.923	Continuing	TBD	
(U) 0207445F (Fighter TDL)	0.000	0.000	0.289	0.287	0.286	0.283	0.288	0.293			
(U) 0401839F (Airlift TDL)	3.220	5.445	5.726	6.603	17.381	17.460	17.815	18.177	Continuing	TBD	
(U) Other Procurement, AF (3080)											
(U) 0207434F (Link 16 Sup & Sus)	41.362	36.886	21.933	28.301	41.932	43.948	56.337	39.173	Continuing	TBD	

**(U) D. Acquisition Strategy**

The Air Force 640th Electronic Systems 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 competitive and sole source contracts.



Exhibit R-3, RDT&E Project Cost Analysis

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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

Remarks:

(U) Total Cost

0.000

156.851

173.216

49.969

60.654

Continuing

TBD

TBD



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Exhibit R-4a, RDT&E Schedule Detail		DATE		
BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>		<b>February 2007</b>		
PE NUMBER AND TITLE <b>0207434F Link 16 Support and Sustainment</b>		PROJECT NUMBER AND TITLE <b>5050 TDL System Integration</b>		
<b>(U) <u>Schedule Profile</u></b>	<u>FY 2006</u>	<u>FY 2007</u>		
		<u>FY 2008</u>		
		<u>FY 2009</u>		
(U) JSS Contract Award	1Q			
(U) JSS Development	1-4Q	1-4Q	1-4Q	1-4Q
(U) JSS Test & Certification	1-4Q	1-4Q	2-4Q	1-4Q
(U) TDL Integration & Fielding Support	1-4Q	1-4Q	1-4Q	1-4Q
(U) CLIP Contract Award	3Q			
(U) CLIP Development	1-4Q	1-4Q		
(U) CLIP Test & Certification	2-4Q	1-4Q		
(U) Network Enabled Weapons Contract Award	2Q	3Q		
(U) Network Enabled Weapons Development	1-4Q	1-4Q	1-4Q	1-4Q
(U) Network Enabled Weapons Test & Certification				2-4Q
(U) JADSI Contract Award	3Q			
(U) JADSI Development	1-4Q	1-4Q		
(U) JADSI Test & Certification		1-4Q		
(U) JADSI Product Delivery		1Q		
(U) JADSI Product Delivery		4Q		
(U) ROBE Contract Award	2Q			
(U) ROBE Development	2-4Q	1-4Q		
(U) ROBE Test & Certification	3-4Q	1-4Q		
(U) Objective Gateway Contract Award	3Q	3Q		
(U) Objective Gateway Development	1-4Q	1-4Q		
(U) JRE/JTEP Contract Award		2Q		
(U) JRE/JTEP Development	1-4Q	1-4Q		
(U) JRE/JTEP Test & Certification	1-3Q	1-3Q		
(U) JRE/JTEP Product Delivery	4Q	4Q		
(U) JINTACCS	1-4Q	1-4Q	1-4Q	1-4Q
(U) Platform S/W Upgrade Interoperability Testing	1-4Q	1-4Q	1-4Q	1-4Q
(U) Platform Interoperability Certification Testing	1-4Q	1-4Q	1-4Q	1-4Q
(U) E-TDL Contract Award	2Q			
(U) E-TDL Development	1-4Q	1-4Q		
(U) E-TDL Test & Certification	3-4Q	1-2Q		
(U) POCKET J Contract Award	2Q	2Q		

**Exhibit R-4a, RDT&E Schedule Detail**

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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) POCKET J Development

1-4Q

1-4Q

(U) POCKET J Test & Certification

3-4Q

2-3Q

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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE		
<b>05 System Development and Demonstration (SDD)</b>				<b>0207434F Link 16 Support and Sustainment</b>				<b>5262 Family of Gateways</b>		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
5262 Family of Gateways	0.000	0.000	149.394	146.614	108.550	121.721	136.757	127.952	0.000	0.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

This project was established in FY08 to consolidate gateway efforts within the Link 16 Support & Sustainment program element. The Air Force has identified these gateway efforts as the Family of Gateways program. FY07 and prior funding for gateways is in Project 655050, TDL System Integration.

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

Gateway systems enable combat forces to exchange information quickly and accurately by bridging discrete airborne, terrestrial, maritime, and space-based C4ISR networks to produce operational effects not possible within individual networks. Gateway functions include: 1) enabling interoperability among otherwise incompatible systems by translating between data formats, protocols, and communication mediums, 2) extending the range of Line-of-Sight constrained systems through relay functions or by routing through Beyond-Line-of-Sight links, 3) consolidating data from multiple networks into high capacity links for transmission to key C2ISR nodes, 4) routing information to and from communications disadvantaged users, 5) correlating data from multiple sources to increase utility and improve accuracy, and 6) providing application hosting, shared data storage, on-demand information access, smart data forwarding, and system monitoring/management. A primary benefit is that gateways provide cost-effective modernization and achieve network-centric warfighting effects without modification of individual platforms.

Existing gateways include the Joint Air Defense System Integrator (JADSI), Joint Range Extension (JRE) functionality [which includes the JRE Transparent Multi-Platform Gateway (TMPG) Equipment Package (JTEP)], Pocket J, and Roll-On Beyond-line-of-sight Enhancement (ROBE). These legacy gateways, which are fielded in multiple Joint and Service C2 centers and platforms, primarily provide tactical data link range extension and interoperability. The AF continues to enhance the interoperability and capabilities of fielded gateways through processing capability upgrades, operating system updates, display/graphical user interface upgrades, incorporation of additional messaging standards and protocols, and completion of gateway architecture fielding.

The Objective Gateway (OG) program is developing a family of advanced gateway capabilities to enable a transition from legacy gateways with niche requirements and narrow user-sets. OG will be modular and scalable, with internet protocol (IP)-based networking capabilities that service theater-wide operational and tactical users. Beginning in FY08, the Objective Gateway program includes an Interim Objective Gateway (I-OG) capability. I-OG is an initial, incremental deployment of OG capability through rapid transition of Air Force and joint technology demonstrations/prototypes (e.g., Battle Field Airborne Communications Node (BACN), Adaptive Joint C4ISR Node (AJCN), JFCOM-sponsored Joint Based Expeditionary Connectivity Center (JBECC), JFCOM-sponsored Rapid Attack Information Dissemination Execution Relay (RAIDER), etc.) and off the shelf combinations of hardware and software applications.

Common Link Integration Processor (CLIP) is a Navy-led program to develop a common, reusable, configurable, and extensible tactical data link message processing solution for airborne, maritime, and fixed-site systems, with initial fielding on B-1, MH-60, and Objective Gateway. The AF and Navy make equitable contributions to CLIP RDT&E funding. CLIP is a software-only, weapon system-independent middleware application that provides gateway services among diverse message sets and waveforms. CLIP effectively isolates the host platform system software from changes in data link message format and processing. Because message processing is no longer embedded in mission software, message standard updates can be incorporated without costly mission software changes. The result is enhanced

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BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>	PE NUMBER AND TITLE <b>0207434F Link 16 Support and Sustainment</b>	PROJECT NUMBER AND TITLE <b>5262 Family of Gateways</b>
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interoperability and significantly reduced integration and life-cycle sustainment costs.

This program is in Budget Activity 5 (System Development and Demonstration (SDD)) because it supports mature system development, integration and demonstrations, initial fielding support activities, operational support activities, and support of special projects

(U) <b>B. Accomplishments/Planned Program (\$ in Millions)</b>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) CLIP development			29.824	29.391
(U) Objective Gateway development, including BACN and RAIDER demonstrations and Interim Objective Gateway			101.429	96.845
(U) Development, integration, and testing of JADSI capability enhancements			4.319	4.513
(U) Development, integration, and testing of JRE/JTEP capability enhancements			3.171	3.670
(U) Development, integration, and testing of TMPG capability enhancements			2.301	2.473
(U) Development, integration, and testing of Pocket J capability enhancements			0.800	0.832
(U) Tactical Data Link Acquisition Management: Includes the 640th ELSS on-line collaboration tool [Integrated Digital Environment (IDE)], contractor support and MITRE support.			7.550	8.890
(U) Total Cost	0.000	0.000	149.394	146.614

(U) <b>C. Other Program Funding Summary (\$ in Millions)</b>	<u>FY 2006</u> <u>Actual</u>	<u>FY 2007</u> <u>Estimate</u>	<u>FY 2008</u> <u>Estimate</u>	<u>FY 2009</u> <u>Estimate</u>	<u>FY 2010</u> <u>Estimate</u>	<u>FY 2011</u> <u>Estimate</u>	<u>FY 2012</u> <u>Estimate</u>	<u>FY 2013</u> <u>Estimate</u>	<u>Cost to Complete</u>	<u>Total Cost</u>
(U) AF RDT&E (3600)										
(U) 0207445F (Fighter TDL)	115.818	112.755	39.545	74.312	91.577	0.000	0.000	0.000	Continuing	TBD
(U) 0207446F (Bomber TDL)	133.836	100.744	37.130	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) 0207448F (C2ISR TDL)	14.219	4.322	1.809	1.741	1.711	1.643	1.675	1.709	Continuing	TBD
(U) 0401839F (Airlift TDL)	0.000	22.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) Other APPN										
(U) Procurement (3010)										
(U) 0207434F (Link 16 Sup & Sus)	2.996	2.773	0.001	9.708	46.296	99.938	104.173	75.826	Continuing	TBD
(U) 0207445F (Fighter TDL)	89.222	61.399	35.676	5.865	9.879	0.785	0.783	0.000	Continuing	TBD
(U) 0207446F (Bomber TDL)	21.940	11.775	4.518	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) 0401839F (Airlift TDL)	24.118	11.497	14.818	12.744	26.521	26.853	27.384	27.929	Continuing	TBD
(U) Other Procurement (3080)										
(U) 0207434F (Link 16 Sup & Sus)	41.362	36.886	21.933	28.301	41.932	43.948	56.337	39.173	Continuing	TBD

Exhibit R-2a, RDT&E Project Justification

DATE  
February 2007

BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>	PE NUMBER AND TITLE <b>0207434F Link 16 Support and Sustainment</b>	PROJECT NUMBER AND TITLE <b>5262 Family of Gateways</b>
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(U) **C. Other Program Funding Summary (\$ in Millions)**

Sus)										
(U) O&M (3400)										
(U) 0207434F (Link 16 Sup & Sus)	8.341	9.895	13.203	4.760	13.054	14.986	17.550	18.923	Continuing	TBD
(U) 0207445F (Fighter TDL)	0.000	0.000	0.289	0.287	0.286	0.283	0.288	0.293	Continuing	TBD
(U) 0401839F (Airlift TDL)	3.220	5.445	5.726	6.603	17.381	17.460	17.815	18.177	Continuing	TBD

(U) **D. Acquisition Strategy**

The Air Force 640th Electronic Systems 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 competitive and sole source contracts.

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**Exhibit R-3, RDT&E Project Cost Analysis**

DATE  
**February 2007**

<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>	<b>PE NUMBER AND TITLE</b> <b>0207434F Link 16 Support and Sustainment</b>	<b>PROJECT NUMBER AND TITLE</b> <b>5262 Family of Gateways</b>
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(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u> CLIP	MIPR	SPAWAR, San Diego, CA						25.086	Dec-07	24.638	Dec-08	Continuing	TBD	TBD
Objective Gateway (including BACN and RAIDER demonstration efforts)	TBD	TBD						101.429	Dec-07	96.845	Dec-08	Continuing	TBD	TBD
JADSI enhancements	T&M/FFP	Ultra Electronics, Austin, TX						4.319	Dec-07	4.513	Dec-08	Continuing	TBD	TBD
JRE/JTEP enhancements	T&M/FFP	Centech, Arlington, VA						3.171	Dec-07	3.670	Dec-08	Continuing	TBD	TBD
TMPG enhancements	T&M/FFP	Raytheon, Fullerton, CA						2.301	Dec-07	2.473	Dec-08	Continuing	TBD	TBD
Pocket J enhancements	TBD	ProLogic, WV						0.800	Jan-08	0.832	Jan-09	Continuing	TBD	TBD
Subtotal Product Development			0.000	0.000		0.000		137.106		132.971		Continuing	TBD	TBD
Remarks:														
														FY07 and prior funding is in Project 655050.
(U) <u>Support</u>													0.000	0.000
Subtotal Support			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000
Remarks:														
(U) <u>Test &amp; Evaluation</u> 46th Test Squadron	Project Order/MIP R	Eglin AFB, FL						4.738	Nov-07	4.753	Nov-08	Continuing	TBD	TBD
Subtotal Test & Evaluation			0.000	0.000		0.000		4.738		4.753		Continuing	TBD	TBD
Remarks:														
(U) <u>Management</u> Program Office and Contractor Support	C/FFP							7.550	Nov-07	8.890	Nov-08	Continuing	TBD	TBD
Subtotal Management			0.000	0.000		0.000		7.550		8.890		Continuing	TBD	TBD
Remarks:														
(U) Total Cost			0.000	0.000		0.000		149.394		146.614		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE  
February 2007

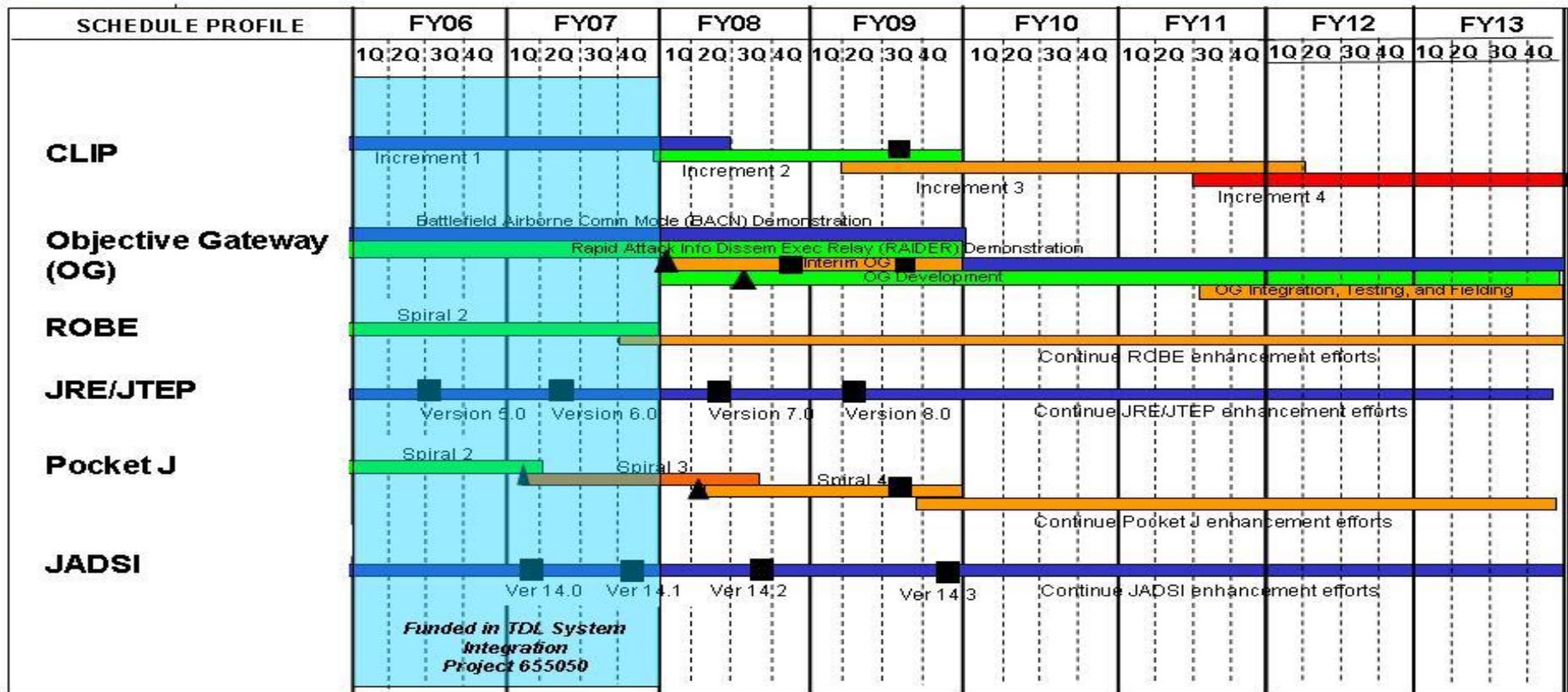
BUDGET ACTIVITY  
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE  
0207434F Link 16 Support and Sustainment

PROJECT NUMBER AND TITLE  
5262 Family of Gateways



# Link 16 Support & Sustainment Family of Gateways



As of 8 Jan 07

▲ Contract Awards      ■ Delivery Milestones

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<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>	DATE <b>February 2007</b>
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BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>	PE NUMBER AND TITLE <b>0207434F Link 16 Support and Sustainment</b>	PROJECT NUMBER AND TITLE <b>5262 Family of Gateways</b>
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<u>(U) Schedule Profile</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) JADSI Development			1-4Q	1-4Q
(U) JADSI Product Delivery			3Q	4Q
(U) CLIP Development			1-4Q	1-4Q
(U) CLIP Product Delivery				3Q
(U) JRE/JTEP Development			1-4Q	1-4Q
(U) JRE/JTEP Product Delivery			2Q	2Q
(U) Pocket J Contract Award			2Q	
(U) Pocket J Development			1-4Q	1-4Q
(U) Pocket J Product Delivery				3Q
(U) ROBE Enhancements			1-4Q	1-4Q
(U) Objective Gateway Contract Award			1Q	
(U) Objective Gateway Development			1-4Q	1-4Q
(U) Objective Gateway Product Delivery			4Q	3Q
(U) Objective Gateway Contract Award			3Q	