

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2008
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0207434F Link 16 Support and Sustainment
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Cost (\$ in Millions)	FY 2007 Actual	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	156.169	194.652	186.213	151.735	164.954	175.223	191.891	Continuing	TBD
5050 TDL System Integration	156.169	49.534	50.135	57.883	62.127	64.235	65.163	Continuing	TBD
5262 Family of Gateways	0.000	145.118	136.078	93.852	102.827	110.988	126.728	0.000	0.000

As of FY07, funding for the Single Integrated Air Picture program (SIAP) moved from PE 0207434F and PE 0207443F to PE 0207451F. 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), Tactical Targeting Network Technology (TTNT), Flexible Access Secure Transfer (FAST), Advanced Tactical Data Link (ATDL), and Radar Common Data Link (R-CDL).

This effort provides critical capability and enhancements to the Airborne Network by creating common development, integration and interoperability among ground and C2 platforms. 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 653rd Electronic Systems Group (653rd ELSG) 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), incorporating Link 16 enhancements and 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.

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The OG program will be fielded in two increments. Increment 1 will provide early OG capability based on technology demonstration and risk reduction efforts completed to date. Increment 2 will develop, test, integrate, and field the full OG capability. 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.

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 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	173.216	199.363	207.268
(U) Current PBR/President's Budget	156.169	194.652	186.213
(U) Total Adjustments	-17.047		
(U) Congressional Program Reductions		-3.478	
Congressional Rescissions		-1.233	
Congressional Increases			
Reprogrammings	-17.047		
SBIR/STTR Transfer			

(U) Significant Program Changes:

- In FY08/09, funding was added to expand the Objective Gateway program to field an early, Increment 1, capability.
- In FY08, \$3M Congressional reduction to Objective Gateway Core Contract Award
- In FY09, funding was reduced due to higher Air Force priorities.

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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		
Cost (\$ in Millions)	FY 2007 Actual	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	156.169	49.534	50.135	57.883	62.127	64.235	65.163	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0		

As of 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), Tactical Targeting Network Technology (TTNT), Flexible Access Secure Transfer (FAST), Advanced Tactical Data Link (ATDL), and Radar Common Data Link (R-CDL).

The number of Air Force platforms hosting TDLs is expanding from C2 aircraft (E-3, E-8, etc.) to 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 653rd Electronic Systems Group (653rd ELSG) 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

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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) <u>B. Accomplishments/Planned Program (\$ in Millions)</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.	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.	46.528	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.	43.681		
(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 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.	0.449		
(U) TDN INTEROPERABILITY TEST AND CONFIGURATION MANAGEMENT:	17.181	18.122	8.637

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(U) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
- 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).			
(U) TACTICAL DATA LINK ACQUISITION MANAGEMENT: Includes the 640th Electronic Systems Squadron (640th ELSS) on-line collaboration tool [Integrated Digital Environment (IDE)], coalition interoperability management, contractor support and MITRE support.	7.161	3.323	4.820
(U) CONGRESSIONAL ADDS: Pocket J - a deployable Link 16 capability for temporary, austere, or remote locations. Beginning in FY08, Pocket J funding moved to Project 655262.	1.600		
(U) Total Cost	156.169	49.534	50.135

(U) <u>C. Other Program Funding Summary (\$ in Millions)</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>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E (3600)									
(U) 0207445F (Fighter TDL)	88.094	38.944	62.788	90.709	0.000	0.000	0.000	Continuing	TBD
(U) 0207446F (Bomber TDL)	87.613	36.875	11.702	0.000	0.000	0.000	0.000	Continuing	TBD
(U) 0207448F (C2ISR TDL)	4.126	1.795	1.727	1.695	1.627	1.659	1.693		14.322
(U) 0401839F (Airlift TDL)	6.785	0.000	0.000	0.000	0.000	0.000	0.000		6.785
(U) Other APPN									
(U) Aircraft Procurement, AF (3010)									
(U) 0207434F (Link 16 Sup & Sus)	0.735	0.001	0.008	35.674	88.253	92.337	64.443	Continuing	TBD
(U) 0207445F (Fighter TDL)	51.047	35.434	5.804	9.790	0.778	0.776	0.000		103.629
(U) 0207446F (Bomber TDL)	11.775	4.488	0.000	0.000	0.000	0.000	0.000		16.263
(U) 0401839F (Airlift TDL)	2.000	12.394	12.612	26.284	26.616	27.138	27.679	Continuing	TBD
(U) O&M, AF (3400)									
(U) 0207434F (Link 16 Sup & Sus)	16.156	12.998	22.364	12.947	14.825	17.383	18.784	Continuing	TBD
(U) 0207445F (Fighter TDL)	0.000	0.276	0.286	0.284	0.281	0.285	0.291		

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Exhibit R-2a (PE 0207434F)

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

(U) 0401839F (Airlift TDL)	4.301	5.468	6.537	11.351	17.311	17.673	18.037	Continuing	TBD
(U) Other Procurement, AF (3080)									
(U) 0207434F (Link 16 Sup & Sus)	36.886	25.756	16.126	39.612	41.093	22.144	7.110	Continuing	TBD

(U) D. Acquisition Strategy

The 653rd Electronic Systems Group (ELSG), formerly the Tactical Data Links System Program Office, provides for common development, integration and interoperability across the entire Airborne Network and ensures that data links are procured and maintained as a joint, end-to-end, command and control system. Platform acquisition strategies vary by program, but the majority of development and integration is normally accomplished by the weapon system prime contractor.

Exhibit R-4, RDT&E Schedule Profile

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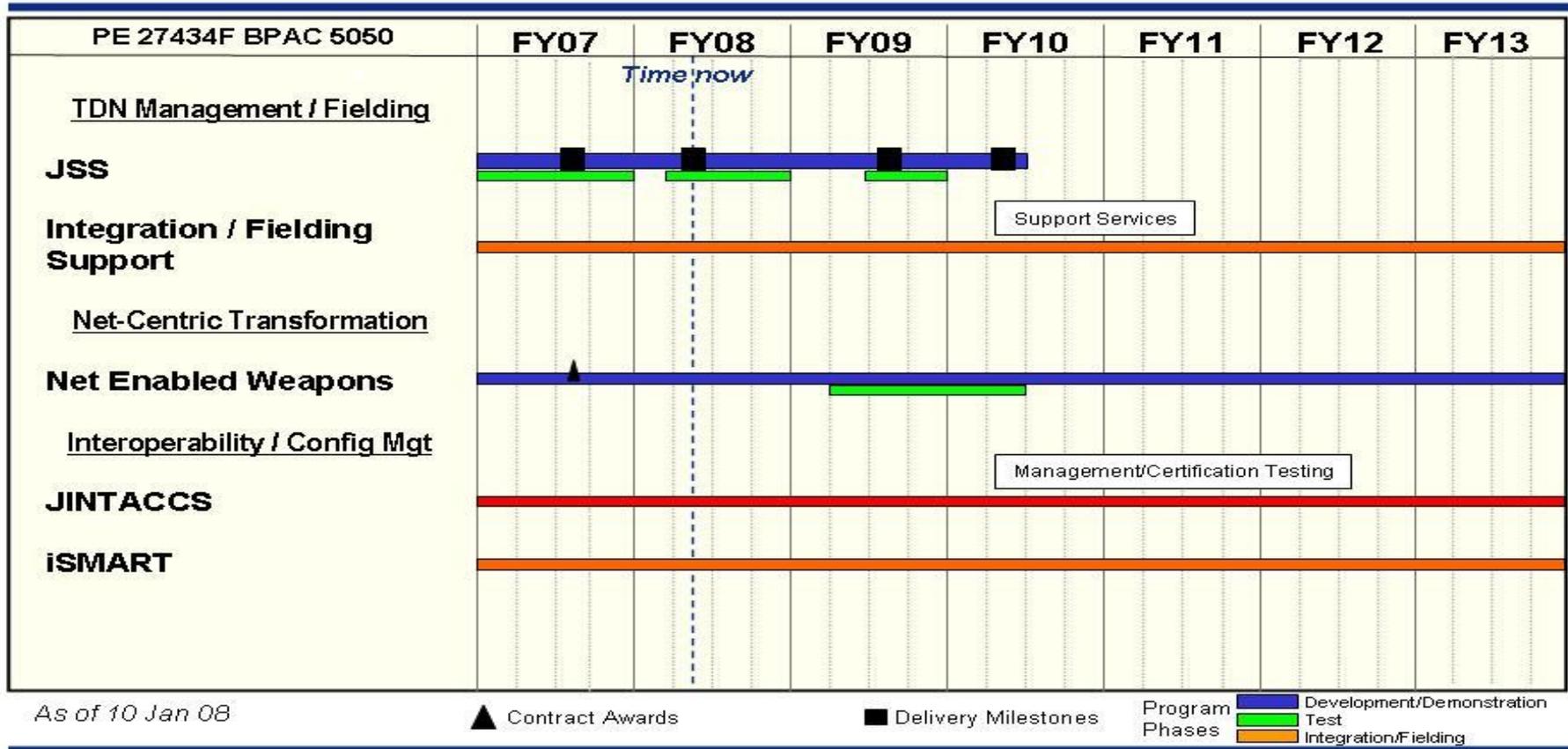
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Tactical Data Links / Link 16 TDL Systems Integration Schedules



Integrity - Service - Excellence

Exhibit R-4a, RDT&E Schedule Detail

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(U) <u>Schedule Profile</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) JSS Development	1-4Q	1-4Q	1-4Q
(U) JSS Test & Certification	1-4Q	2-4Q	3-4Q
(U) TDL Integration & Fielding Support	1-4Q	1-4Q	1-4Q
(U) Network Enabled Weapons Contract Award	3Q		
(U) Network Enabled Weapons Development	1-4Q	1-4Q	1-4Q
(U) Network Enabled Weapons Test & Certification			2-4Q
(U) JINTACCS	1-4Q	1-4Q	1-4Q
(U) iSMART	1-4Q	1-4Q	1-4Q

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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 5262 Family of Gateways		
Cost (\$ in Millions)	FY 2007 Actual	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	145.118	136.078	93.852	102.827	110.988	126.728	0.000	0.000
Quantity of RDT&E Articles	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 will deliver a set of advanced gateway capabilities to increase voice and data communications connectivity and information interoperability across many users and platforms in the tactical edge (including homeland defense). OG will bring these users and platforms into the net-centric Global Information Grid (GIG) via a secure, high-capacity network of collaborating OG nodes. Projected OG users and platforms include fighter and bomber aircraft, airborne and ground C2 nodes, mobile and dismounted forces, first responders and command centers, and other users in the GIG. Communications systems include legacy tactical data links, advanced (IP-based) tactical data links, military and civilian voice radios, satellite communications, cellular radios, and terrestrial networks. OG nodes are anticipated to be fielded on five types of platforms, or variants: Tactical Airborne, Strategic Airborne, Ground, Maritime, and Training. OG will be fielded in two increments. Increment 1 will provide initial OG capabilities to meet warfighters' demands based on the Battlefield Airborne Communications Node (BACN) airborne gateway and the Rapid Attack Information Dissemination Execution Relay (RAIDER) ground modular gateway technology demonstration and risk reduction efforts completed to date. FY08-09 activities for Increment 1 include development and test of production representative airborne and ground gateway hardware and software configurations, and development of required technical and support documentation. Increment 2 will develop, test, and integrate the OG Core. This is the common OG software which will be used in combination with various communications terminals and other systems to produce individual OG nodes, whose configurations and capabilities are tailorable to meet different platform Size, Weight, and Power (SWaP) and mission requirements. OG Core functions will include

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PROJECT NUMBER AND TITLE

5262 Family of Gateways

Tactical Data Network (TDN) message translation, correlation, and forwarding, which will be provided, in part, by the initial fielding of the Common Link Integration Processing (CLIP) capability. FY08-09 activities for Increment 2 include OG Core technical risk reduction, prototyping, assessment of CLIP-like capability requirements, and development of an OG Core Reference System Architecture -- the framework that will provide for performance, extensibility, modifiability, scalability, and portability of the OG Core's modular system components.

Common Link Integration Processing (CLIP) is a 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 & B-52. Program leadership is scheduled to transfer from the Navy to the AF by FY09. The AF and Navy made equitable contributions to CLIP RDT&E funding through FY07. The AF is funding CLIP RDT&E beginning in FY08. 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 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) <u>B. Accomplishments/Planned Program (\$ in Millions)</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) CLIP development and testing		28.828	28.302
(U) Objective Gateway development and test, including BACN and RAIDER demonstrations and incremental Objective Gateway development		95.041	84.207
(U) Development, integration, and testing of JADSI capability enhancements		4.175	4.346
(U) Development, integration, and testing of JRE/JTEP capability enhancements		3.065	3.534
(U) Development, integration, and testing of SADL/TMPG capability enhancements		2.224	2.381
(U) Development, integration, and testing of Pocket J capability enhancements		0.773	0.801
(U) Family of Gateways test and evaluation support		4.738	4.753
(U) Tactical Data Link Acquisition Management: Includes the 640th Electronic Systems Squadron (640th ELSS) on-line collaboration tool [Integrated Digital Environment (IDE)], contractor support and MITRE support.		6.274	7.754
(U) Total Cost	0.000	145.118	136.078

(U) <u>C. Other Program Funding Summary (\$ in Millions)</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>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) AF RDT&E (3600)									
(U) 0207445F (Fighter TDL)	88.094	38.944	62.788	90.709	0.000	0.000	0.000	Continuing	TBD
(U) 0207446F (Bomber TDL)	87.613	36.875	11.702	0.000	0.000	0.000	0.000	Continuing	TBD

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

(U) 0207448F (C2ISR TDL)	4.126	1.795	1.727	1.695	1.627	1.659	1.693	Continuing	TBD
(U) 0401839F (Airlift TDL)	6.785	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)	0.735	0.001	0.008	35.674	88.253	92.337	64.443	Continuing	TBD
(U) 0207445F (Fighter TDL)	51.047	35.434	5.804	9.790	0.778	0.776	0.000	Continuing	TBD
(U) 0207446F (Bomber TDL)	11.775	4.488	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
(U) 0401839F (Airlift TDL)	2.000	12.394	12.612	26.284	26.616	27.138	27.679	Continuing	TBD
(U) Other Procurement (3080)									
(U) 0207434F (Link 16 Sup & Sus)	36.886	25.756	16.126	39.612	41.093	22.144	7.110	Continuing	TBD
(U) O&M (3400)									
(U) 0207434F (Link 16 Sup & Sus)	16.156	12.998	22.364	12.947	14.825	17.383	18.784	Continuing	TBD
(U) 0207445F (Fighter TDL)	0.000	0.276	0.286	0.284	0.281	0.285	0.291	Continuing	TBD
(U) 0401839F (Airlift TDL)	4.301	5.468	6.537	11.351	17.311	17.673	18.037	Continuing	TBD

(U) D. Acquisition Strategy

The 653rd Electronic Systems Group (ELSG), formerly the Tactical Data Links System Program Office, provides for common development, integration and interoperability across the entire Airborne Network and ensures that data links are procured and maintained as a joint, end-to-end, command and control system. Platform acquisition strategies vary by program, but the majority of development and integration is normally accomplished by the weapon system prime contractor.

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Exhibit R-3, RDT&E Project Cost Analysis

DATE

February 2008

BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE				
05 System Development and Demonstration (SDD)				0207434F Link 16 Support and Sustainment				5262 Family of Gateways				
<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2007 Cost</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				28.828	Jan-08	28.302	Jan-09	Continuing	TBD	TBD
Objective Gateway Development (including BACN and RAIDER demonstration efforts)	VARIOUS	Various				95.041	Dec-07	84.207	Dec-08	Continuing	TBD	TBD
JADSI enhancements	T&M/FFP	Ultra Electronics, Austin, TX				4.175	Jan-08	4.346	Dec-08	Continuing	TBD	TBD
JRE/JTEP enhancements	T&M/FFP	Centech, Arlington, VA				3.065	Dec-07	3.534	Dec-08	Continuing	TBD	TBD
SADL/TMPG enhancements	T&M/FFP	Raytheon, Fullerton, CA				2.224	Dec-07	2.381	Dec-08	Continuing	TBD	TBD
Pocket J enhancements	TBD	ProLogic, WV				0.773	Jan-08	0.801	Jan-09	Continuing	TBD	TBD
Subtotal Product Development			0.000	0.000		134.106		123.571		Continuing	TBD	TBD
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>												
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		4.738		4.753		Continuing	TBD	TBD
Remarks:												
<u>(U) Management</u>												
Program Office and Contractor Support	C/FFP					6.274	Nov-07	7.754	Nov-08	Continuing	TBD	TBD
Subtotal Management			0.000	0.000		6.274		7.754		Continuing	TBD	TBD
Remarks:												
<u>(U) Total Cost</u>			0.000	0.000		145.118		136.078		Continuing	TBD	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2008

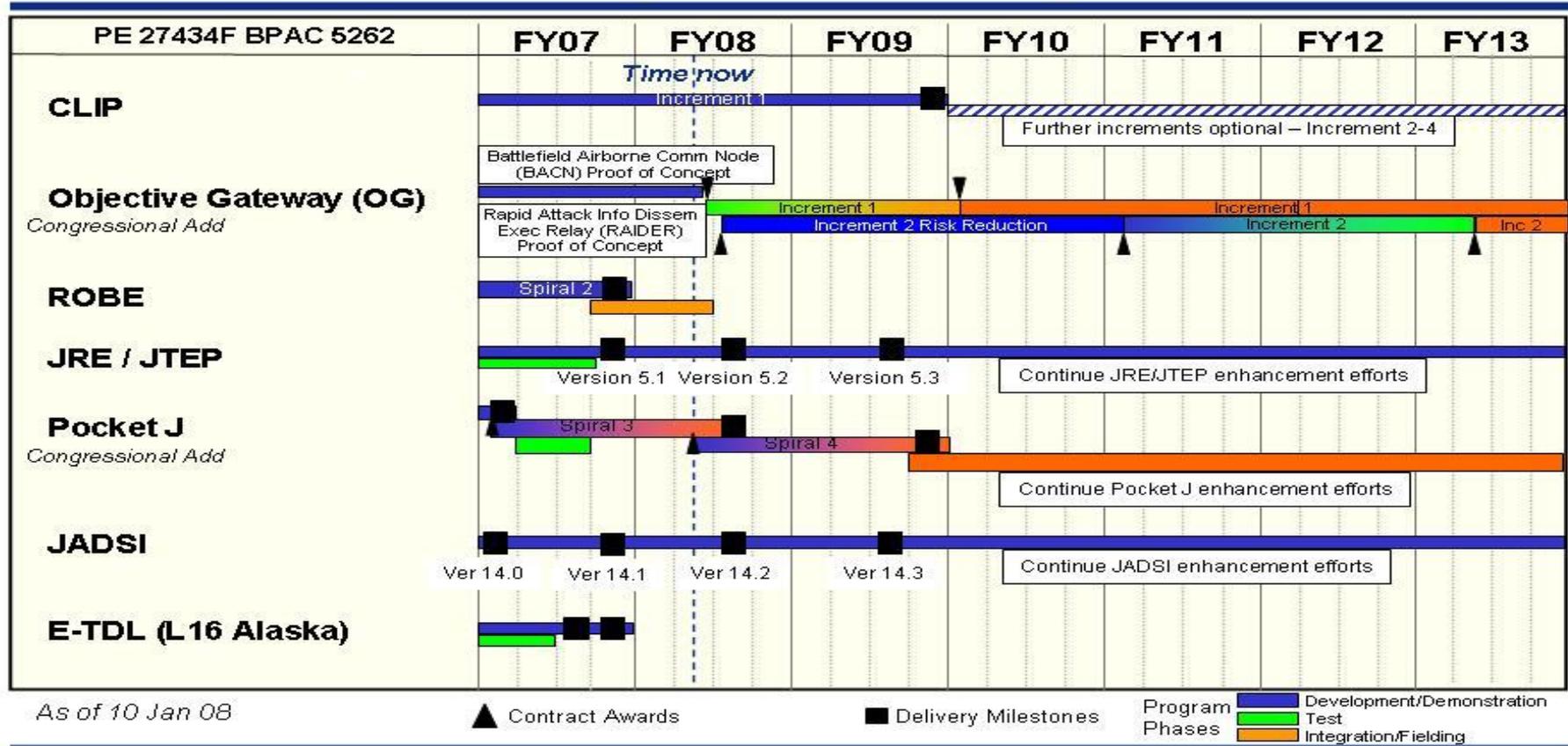
BUDGET ACTIVITY
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE
0207434F Link 16 Support and Sustainment

PROJECT NUMBER AND TITLE
5262 Family of Gateways



Tactical Data Links / Link 16 Family of Gateways Schedules



Integrity - Service - Excellence

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Exhibit R-4a, RDT&E Schedule Detail	DATE February 2008
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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 5262 Family of Gateways
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(U) <u>Schedule Profile</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) JADSI Development	1-4Q	1-4Q	1-4Q
(U) JADSI Product Delivery	4Q	3Q	3Q
(U) CLIP Development	1-4Q	1-4Q	1-4Q
(U) CLIP Product Delivery			4Q
(U) JRE/JTEP Development	1-4Q	1-4Q	1-4Q
(U) JRE/JTEP Product Delivery	4Q	3Q	3Q
(U) Pocket J Contract Award	1Q	2Q	
(U) Pocket J Development	1-4Q	1-4Q	1-4Q
(U) Pocket J Product Delivery	1Q	3Q	4Q
(U) ROBE Development	1-4Q		
(U) ROBE Enhancements		1-2Q	
(U) Objective Gateway (OG) Risk Reduction	1-4Q	1-2Q	
(U) OG Increment 1 Development & Test Contract Award		2Q	
(U) OG Increment 2 Risk Reduction Contract Award		3Q	
(U) OG Increment 2 Risk Reduction		3-4Q	1-4Q