

**UNCLASSIFIED**

PE NUMBER: 0401839F  
 PE TITLE: Airlift/Other Tactical Data Link

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>								DATE <b>February 2008</b>	
<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>				<b>PE NUMBER AND TITLE</b> <b>0401839F Airlift/Other Tactical Data Link</b>					
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	6.785	0.000	0.000	0.000	0.000	0.000	0.000	0.000	22.016
5040 Airlift/Other Tactical Data Link	6.785	0.000	0.000	0.000	0.000	0.000	0.000	0.000	22.016

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

Tactical Data Links (TDL), as a subset of the broader, crucial Airborne Network, 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), Integrated Broadcast Service (IBS), and Tactical Targeting Network Technology (TTNT).

This effort provides critical capability and enhancements to the Airborne Network by creating common development, integration and interoperability across the Air Mobility and Special Operations Forces (SOF) Fleets. This development effort incorporates Line of Sight (LOS) and Beyond Line of Sight (BLOS) TDL capability into the Air Mobility and SOF Fleets to include, but not be limited to: C-17, KC-135, C-130, KC-10, C-5 and other Air Mobility, Refueling, and SOF aircraft. TDLs provide a secure, jam-resistant, digital-data-transfer-network capability with a standardized waveform and data format allowing intra- and inter-flight communications. TDLs increase mission effectiveness, provide situational awareness, provide positive identification of aircraft in the network, correlate on- and off-board sensor data, target, and threat information. TDL efforts include, but are not limited to: changes and additions to the TDL message standard (MIL-STD-6016C) and other data link interoperability standards including necessary Interface Change Proposals (ICPs); interoperability certification testing with the Joint Interoperability Test Center (JITC); future development, integration, and verification of TDL Operational Flight Program (OFP) upgrades and federated networking components and applications; data gathering processes for future network-centric assessments for all Air Mobility Command (AMC) and Air Force Special Operations Command (AFSOC) platforms; and Joint Tactical Radio System (JTRS) migration activities.

Airlift/Other Tactical Data Link program is in Budget Activity 7, Operational System Development, since it supports integration of tactical data links into operational systems.

Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2008

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0401839F Airlift/Other Tactical Data Link

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	22.000	0.000	0.000
(U) Current PBR/President's Budget	6.785	0.000	0.000
(U) Total Adjustments	-15.215		
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings	-14.596		
SBIR/STTR Transfer	-0.619		

(U) **Significant Program Changes:**

In FY07, Airlift/Other Tactical Link funding was reduced due to higher Air Force priorities.

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

DATE  
**February 2008**

<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>				<b>PE NUMBER AND TITLE</b> <b>0401839F Airlift/Other Tactical Data Link</b>			<b>PROJECT NUMBER AND TITLE</b> <b>5040 Airlift/Other Tactical Data Link</b>			
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
5040	Airlift/Other Tactical Data Link	6.785	0.000	0.000	0.000	0.000	0.000	0.000	0.000	22.016
	Quantity of RDT&E Articles	0	0	0	0	0	0	0		

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

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

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Data Link Integration (DLI) program support.	1.341		
(U) Data Link Integration (DLI) Group A Risk Reduction.	4.800		
(U) Data Link Integration (DLI) Information Support Plan/Capability Development Document (ISP/CDD) Documentation at AMC.	0.504		
(U) Data Link Integration (DLI) Test.	0.140		
(U) Total Cost	6.785	0.000	0.000

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

DATE

February 2008

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07 Operational System Development

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0401839F Airlift/Other Tactical Data Link

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5040 Airlift/Other Tactical Data Link

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

	<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) RDT&E (3600)									
(U) 0207434F (Link 16 Sup & Sus)	156.169	194.652	186.213	151.735	164.954	175.223	191.891	Continuing	TBD
(U) 0207445F (Fighter TDL)	88.094	38.944	62.788	90.709	0.000	0.000	0.000		280.535
(U) 0207446F (Bomber TDL)	87.613	36.875	11.702	0.000	0.000	0.000	0.000		136.190
(U) 0207448F (C2ISR TDL)	4.126	1.795	1.727	1.695	1.627	1.659	1.693	Continuing	TBD
(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		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) 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 RD)	0.000	0.276	0.286	0.284	0.281	0.285	0.291		
(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 Electronics Systems Group (ELSG), formerly the Air Force Tactical Data Networks System Program Office (SPO), provides for common development of integration and interoperability across the entire Airborne Network and ensures that TDLs are procured and maintained as joint, end-to-end, command-and-control systems. Platform acquisition strategies vary by program, but the majority of development and integration is normally accomplished by the weapon system prime contractor.

UNCLASSIFIED

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

DATE

**February 2008**

BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
<b>07 Operational System Development</b>				<b>0401839F Airlift/Other Tactical Data Link</b>					<b>5040 Airlift/Other Tactical Data Link</b>			
(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 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> Group A Risk Reduction/Design	Various	AFRL, Wright-Patterson on AFB, OH		4.800	May-07					0.000	4.800	TBD
Subtotal Product Development			0.000	4.800		0.000		0.000		0.000	4.800	TBD
Remarks:												
(U) <u>Support</u> Information Support Plan/Capability Development Document (ISP/CDD) Documentation at AMC	MIPR	NAVSEA Indian Head, MD		0.504	Sep-07						0.504	
Subtotal Support			0.000	0.504		0.000		0.000		0.000	0.504	0.000
Remarks:												
(U) <u>Test &amp; Evaluation</u> Test	Air Force Project Order	46th Test Squadron, Eglin AFB, FL		0.140	Jan-07						0.140	TBD
Subtotal Test & Evaluation			0.000	0.140		0.000		0.000		0.000	0.140	TBD
Remarks:												
(U) <u>Management</u> Program Office and Contractor Support	C/FFP	Various		0.000		0.000		0.000		0.000	0.000	TBD
Subtotal Management			0.000	1.341	Jan-07	0.000		0.000		0.000	1.341	TBD
Remarks:												
(U) Total Cost			0.000	6.785		0.000		0.000		0.000	6.785	TBD

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2008

BUDGET ACTIVITY  
07 Operational System Development

PE NUMBER AND TITLE  
0401839F Airlift/Other Tactical Data Link

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5040 Airlift/Other Tactical Data Link

MAF DATA LINK INTEGRATION SCHEDULE  
(As of 10 January 2008)

SCHEDULE PROFILE	FY07				FY08				FY09				FY10				FY11				FY12				FY13							
	1Q	2Q	3Q	4Q																												
MAF DLI																																
Group A/B Risk Reduction *			△				△																									
MS B																																
Contract Award																																
SDD																																
Flight Test																																
Group B Integration																																
MS C																																
Fielding																																
<p><i>* Development program will continue through FY11 assuming successful completion of ongoing AF reprogramming actions.</i></p>																																

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<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>	DATE <b>February 2008</b>
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(U) <b><u>Schedule Profile</u></b>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Group A/B Risk Reduction	3-4Q	1-2Q	