

**UNCLASSIFIED**

<b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)</b>	DATE <b>February 2002</b>
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<b>BUDGET ACTIVITY</b> <b>07 - Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0305099F Global Air Traffic Management (GATM)</b>	<b>PROJECT</b> <b>4689</b>
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COST (\$ in Thousands)	FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4689 Global Access Architecture	8,430	8,887	7,200	7,311	7,447	7,730	8,019	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

(U) **A. Mission Description**  
 Global Air Traffic Management: GATM is the Air Force program designed to meet the evolving aviation requirements of the International Civil Aviation Organization (ICAO). GATM, Navigation and Safety, and Navigation Warfare (NAVWAR) are major components of the AF's Global Access, Navigation, and Safety (GANS) management effort. The Global Air Traffic Operations/Mobility Command and Control (GATO/MC2) System Program Office (SPO) supports GATM as the AF's central focal point for analyzing and evaluating operational requirements, developing aircraft system architectures, acquiring aviation equipment, and certifying weapon system implementation. Per AFPD 63-13, SPO support funds engineering services, acquisition support, and certification of platform integration. The system architectures identify necessary equipment and aircraft capability shortfalls across the Air Force inventory, for mobility, information dominance, bombers, fighters, trainers, helicopters, and unmanned aerial vehicles. For those capabilities where no current solution exists, development activities are undertaken in conjunction with existing DoD communications, navigation, surveillance, and safety program offices. Dual-use capabilities of avionics to satisfy GATM and military requirements of the Air Force fleet will be explored. The SPO will continue projections of studies and prototype efforts necessary to ensure AF aviation weapon systems are postured to meet civil standards and future changes to the civil standards leading to free flight. This project supports the definition of requirements for ACAT III projects across multiple weapon systems. No existing program satisfies the requirements of the GATM initiatives.

(U) **FY 2001 (\$ in Thousands)**

(U) \$2,403	Continue system architecture definitions, development, and certification
(U) \$1,358	Continue operational requirements analysis, demonstration, and evaluation
(U) \$2,786	Continue development of common avionics and technologies
(U) \$1,248	Continue acquisition of ID/IQ aviation equipment
(U) \$635	Continue Nav/Safety and GPS/NAVWAR integration and interoperability evaluations
(U) \$8,430	Total

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BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT		
<b>07 - Operational System Development</b>	<b>0305099F Global Air Traffic Management (GATM)</b>	<b>4689</b>		
<b>(U) <u>A. Mission Description Continued</u></b>				
<b>(U) <u>FY 2002 (\$ in Thousands)</u></b>				
(U) \$2,524	Continue system architecture definitions, development, and certification			
(U) \$1,484	Continue operational requirements analysis, demonstration, and evaluation			
(U) \$2,839	Continue development of common avionics and technologies			
(U) \$1,391	Continue acquisition of ID/IQ aviation equipment			
(U) \$649	Continue Nav/Safety and GPS/NAVWAR integration and interoperability evaluations			
(U) \$8,887	Total			
<b>(U) <u>FY 2003 (\$ in Thousands)</u></b>				
(U) \$2,092	Continue system architecture definitions, development, and certification			
(U) \$1,154	Continue operational requirements analysis, demonstration, and evaluation			
(U) \$2,364	Continue development of common avionics and technologies			
(U) \$1,011	Continue acquisition of ID/IQ aviation equipment			
(U) \$579	Continue Nav/Safety and GPS/NAVWAR integration and interoperability evaluations			
(U) \$7,200	Total			
<b>(U) <u>B. Budget Activity Justification</u></b>				
This program upgrades avionics to add air traffic control capabilities to currently fielded weapon systems and is assigned Budget Activity 7, Operational Systems Development.				
<b>(U) <u>C. Program Change Summary (\$ in Thousands)</u></b>				
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>
(U) Previous President's Budget	8,508	9,331	7,217	TBD
(U) Appropriated Value	8,508	9,331		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-78	-444		
b. Small Business Innovative Research				
c. Omnibus or Other Above Threshold Reprogram				
d. Below Threshold Reprogram				
e. Rescissions				
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BUDGET ACTIVITY		PE NUMBER AND TITLE		PROJECT						
<b>07 - Operational System Development</b>		<b>0305099F Global Air Traffic Management (GATM)</b>		<b>4689</b>						
<b>(U) C. Program Change Summary (\$ in Thousands) Continued</b>										
		<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>					
(U)	Adjustments to Budget Years Since FY 2002 PBR			-17						
(U)	Current Budget Submit/FY 2003 PBR	8,430	8,887	7,200	TBD					
(U)	<u>Significant Program Changes:</u> FY00 reflects a below threshold reprogramming to support the C-130 Avionics Modernization Program source selection activities.									
<b>(U) D. Other Program Funding Summary (\$ in Thousands)</b>										
		<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</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)	Other APPN									
(U)	Aircraft Procurement, AF, BA-5, C-5 Avionics Modernization Program, PE 0401119F	33,003	90,531	125,067	80,524	12,062				341,187
(U)	RDT&E, AF, BA-7, C-5 AMP, PE 0401119F, C-5 Airlift Squadrons	44,489	64,240	10,030						118,759
(U)	Aircraft Procurement, AF, BA-5, C-5, FM Immunity, PE0401119F									
(U)	Aircraft Procurement, AF, BA-5, C-9 NAVSTAR GPS, PE 0401314F	882								882
(U)	Aircraft Procurement, AF, BA-5, C-9 RVSM, PE 0401314F									
(U)	Aircraft Procurement, AF,									
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BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305099F Global Air Traffic Management (GATM)				PROJECT 4689	
<b>(U) D. Other Program Funding Summary (\$ in Thousands)</b>									
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</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>	
BA-5, C-9 TAWS, PE 0401314F									
(U) Aircraft Procurement, AF, BA-5, KC-10 NAVSTAR GPS, PE 0401219F									
(U) RDT&E, AF, BA-7, KC-10 GATM, PE 0401219F	19,347	22,774	10,584	2,422					55,127
(U) Aircraft Procurement, AF, BA-5, KC-10 GATM, PE 0401219F	39,321	15,093	8,163	14,085	1,973				78,635
(U) Aircraft Procurement, AF, BA-5, KC-10 FM Immunity, PE 0401219F									
(U) Aircraft Procurement, AF, BA-5, KC-10 TCAS/TAWS, PE 0401219F	547								547
(U) Aircraft Procurement, AF, BA-5, C-17 HFDL, PE 0401130F		3,128	2,820	7,967	3,651	1,667			19,233
(U) Aircraft Procurement, AF, BA-5, C-17 GPS Integrity Monitoring Capability, PE 0401130F	1,160								1,160
(U) Aircraft Procurement, AF, BA-5, C-17 GATM II, PE 0401130F				54,372	57,640	55,089	52,547	29,324	248,972
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BUDGET ACTIVITY <b>07 - Operational System Development</b>				PE NUMBER AND TITLE <b>0305099F Global Air Traffic Management (GATM)</b>				PROJECT <b>4689</b>		
<b>(U) D. Other Program Funding Summary (\$ in Thousands)</b>										
		<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</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)	Aircraft Procurement, AF, BA-5, C-17 RNP-4, PE 0401130F		3,128	2,820	7,967	3,651	1,667			19,233
(U)	Aircraft Procurement, AF, BA-5, C-17 TAWS, PE 0401130F	1,840	11,701	18,796	5,082					37,419
(U)	Aircraft Procurement, AF, BA-5, C-17 GATM PE 0401130F	31,246	39,516	30,029						100,791
(U)	Aircraft Procurement, AF, BA-5, C-20 TAWS, PE 0401314F									
(U)	Aircraft Procurement, AF, BA-5, C-21 TCAS, PE 0401314F	370								370
(U)	Aircraft Procurement, AF, BA-5, C-21 TAWS, PE 0401314F	157								157
(U)	Aircraft Procurement, AF, BA-5, VC-25 Windshear Warning, PE 0401314F									
(U)	Aircraft Procurement, AF, BA-5, VC-25 GATM, PE 0401314F		11,364	11,124	1,780					24,268
(U)	Aircraft Procurement, AF, BA-5, VC-25 TAWS, PE									
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BUDGET ACTIVITY 07 - Operational System Development				PE NUMBER AND TITLE 0305099F Global Air Traffic Management (GATM)				PROJECT 4689	
<b>(U) D. Other Program Funding Summary (\$ in Thousands)</b>									
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</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>	
0401314F									
(U) Aircraft Procurement, AF, BA-5, T-43 TCAS, PE 0804742F				1,924	4,910	3,239	55		11,325
(U) Aircraft Procurement, AF, BA-5, T-43 TAWS, PE 0804742F	3,002	3,404	1,868	5,184	2,722				16,180
(U) Aircraft Procurement, AF, BA-5, C-130 Avionics Modernization Program, PE 0401115F				80,800	180,200	213,600	303,300	1,982,700	2,760,600
(U) Aircraft Procurement, AF, BA-5, C-130 ETCAS, PE 0401115F	20,100	2,105	3,635	250					26,090
(U) Aircraft Procurement, AF, BA-5, C-135 8.33 radio, PE 0401218F	33,247								33,247
(U) Aircraft Procurement, AF, BA-5, C-135 Interphone replacement, PE 0401218F	1,158								1,158
(U) Aircraft Procurement, AF, BA-5, C-135 GATM, PE 0401218F	19,130	91,200	159,307	157,549	151,846	131,427	137,257	125,213	972,929
(U) Aircraft Procurement, AF, BA-5, C-135 RVSM, PE 0401218F	42,801	19,290							62,091
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<b>(U) D. Other Program Funding Summary (\$ in Thousands)</b>											
		<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</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)	Aircraft Procurement, AF, BA-5, C-135 TAWS, PE 0401218F	11,800	8,788							20,588	
(U)	Aircraft Procurement, AF, BA-5, C-135 FDR/CVR, PE 0401218F	44,043	36,504	1,598						82,145	
(U)	Aircraft Procurement, AF, BA-5, C-135 Pacer CRAG, PE 0401218F	78,521	1,549							80,070	
(U)	Aircraft Procurement, AF, BA-5, C-135 FM Immunity, PE0401218F	6,424								6,424	
(U)	Aircraft Procurement, AF, BA-5, C-141 TCAS, PE 0401118F	10								10	
(U)	RDT&E , AF, BA-7, E-3 GATM, PE 0207417F				16,876	66,568	20,429			103,873	
(U)	Aircraft Procurement, AF, BA-5, E-3 GATM, PE 0207417F						26,515	69,475		95,990	
(U)	Aircraft Procurement, AF, BA-5, E-4 8.33 radio, PE 0302015F										
(U)	Aircraft Procurement, AF, BA-5, E-4 TCAS, PE 0302015F	375	720							1,095	
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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT		
<b>07 - Operational System Development</b>				<b>0305099F Global Air Traffic Management (GATM)</b>				<b>4689</b>		
<b>(U) D. Other Program Funding Summary (\$ in Thousands)</b>										
		<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</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)	Aircraft Procurement, AF, BA-5, E-4 TAWS, PE 0302015F	971								971
(U)	RDT&E, AF BA-5, E-4 , INFRASTRUCTURE MODERNIZATION, PE 0302015F	34,169	17,257	9,017	29,351	21,703				111,497
(U)	Aircraft Procurement, AF, BA-5, E-4 INFRASTRUCTURE MODERNIZATION, PE 0302015F			28,262	20,139	31,883	7,306	17,292		104,882
(U)	Aircraft Procurement, AF, BA-5, E-4 FDR/CVR, PE 0302015F	100	480							580
(U)	Aircraft Procurement, AF, BA-5, E-8 GATM, PE 0207581F		8,820			22,632	17,993	24,660		74,105
(U)	RDT&E, AF, BA-7, E-8 GATM, PE 0207581F	4,847			49,600	63,800	36,300	7,700		162,247
(U)	Aircraft Procurement, AF, BA-5, H-1 TCAS, PE 0101235F	2,906		292	488					3,686
(U)	Aircraft Procurement, AF, BA-5, B-52, GATM, PE 0101113F						340	51,300	118,800	170,440
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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT			
<b>07 - Operational System Development</b>				<b>0305099F Global Air Traffic Management (GATM)</b>				<b>4689</b>			
<b>(U) D. Other Program Funding Summary (\$ in Thousands)</b>											
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</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, AF, BA07, B-52 GATM, PE 0101113F				4,676	15,836	40,000			60,512		
(U) Aircraft Procurement, AF, BA-5, C-12 TAWS, PE 0401314F	1,305								1,305		
<b>(U) E. Acquisition Strategy</b>											
The GATM Global Access Architecture acquisition strategy enables the GATO/MC2 SPO to guide equipment acquisition supporting global air traffic operations. The SPO will ensure standardization and certification of USAF platforms/systems that operate in the national and global air traffic environments. The SPO will also provide technical expertise and interface with appropriate product/support centers, battle labs, and Department of Defense (DOD) research and development facilities in the execution of assigned tasks. Program Research and Development Agreements (PRDAs), Cooperative Research and Development Agreements (CRDAs), and Indefinite Delivery/Indefinite Quantity (ID/IQ) contracts will be competitively awarded.											
<b>(U) F. Schedule Profile</b>											
				<u>FY 2001</u>			<u>FY 2002</u>		<u>FY 2003</u>		
				1	2	3	4	1	2	3	4
(U) System Architecture Definitions				*				X			X
(U) Operational Requirements Analysis								X			X
(U) Development of common avionics and technologies								X			X
(U) Acquisition of ID/IQ equipment						*		X			X
(U) GPS/NAVWAR Integration Activities						*		X			X
* Denotes Completed Event for the FY - All GATM activities are on-going level of effort activities											
X Denotes Beginning of scheduled event											
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2002			
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT		
<b>07 - Operational System Development</b>				<b>0305099F Global Air Traffic Management (GATM)</b>				<b>4689</b>		
<b>(U) A. Project Cost Breakdown (\$ in Thousands)</b>										
						<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>
(U)	System architecture definitions, development, and certification					2,403		2,524		2,092
(U)	Operational requirements analysis, demonstration, and evaluation					1,358		1,484		1,154
(U)	Acquisition of ID/IQ aviation equipment					1,248		1,391		1,011
(U)	Development of common avionics and technologies					2,786		2,839		2,364
(U)	Nav/Safety and GPS/NAVWAR integration and interoperability evaluations					635		649		579
(U)	Total					8,430		8,887		7,200
<b>(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)</b>										
<b>(U) Performing Organizations:</b>										
<u>Contractor or</u>	<u>Contract</u>									
<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>						
<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Organizations</u>										
MIT	FFP	Nov 98	N/A	N/A	2,420	1,300	1,350	1,215	Continuing	TBD
Honeywell	FFP	Nov 98	N/A	N/A	2,689	125	240	120	Continuing	TBD
Allied Signal	FFP	Nov 98	N/A	N/A	1,975	0	0	0	0	1,975
Rockwell Collins	FFP	Nov 98	N/A	N/A	1,504	142	340	175	Continuing	TBD
MITRE Corporation	CPAF	Oct 99	N/A	N/A	5,188	3,144	2,898	2,478	Continuing	TBD
Horizons Technology Inc	FFP	Feb 99	N/A	N/A	3,974	1,379	1,198	1,375	Continuing	TBD
TASC	CPFF	Jan 99	728	728	728	0	0		0	728
Smiths Industries	FFP	Apr 00	N/A	N/A	194	120	120	120	Continuing	TBD
SAIC	T&M	Dec 99	N/A	N/A	530	0	0	0	0	530
ARINC Inc	FFP	July 99	N/A	N/A	946	140	150	150	Continuing	TBD
Lockheed Martin	CPAF	Jun 00	159	159	159	0	0	0	0	159
Bremmer Associates	FFP	Feb 99	729	729	729	0	0	0	0	729
Northop Grumman	CPAF	Feb 99	2,499	2,499	2,499	0	0	0	0	2,499
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)									DATE February 2002	
BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT	
<b>07 - Operational System Development</b>				<b>0305099F Global Air Traffic Management (GATM)</b>					<b>4689</b>	
<b>(U) <u>Performing Organizations Continued:</u></b>										
<u>Product Development Organizations</u>										
MCR	IDIQ	Feb	N/A	N/A	750	450	420	300	Continuing	TBD
Federal Tech Services	FFP	Aug 99	300	300	300	0	0	0	0	300
DISA/DIT	FFP	Sep 00	N/A	N/A	0	350	640	525	Continuing	TBD
Various	various	various	N/A	N/A	2,188	786	946	475	Continuing	TBD
<u>Support and Management Organizations</u>										
MITRE Corporation	CPAF	Oct 99	N/A	N/A	761	292	315	115	Continuing	TBD
Various	Various	Various	N/A	N/A	788	169	210	100	Continuing	TBD
<u>Test and Evaluation Organizations</u>										
412th FLTS (Edwards AFB)		Various	N/A	N/A	111	33	60	52	Continuing	TBD
					<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>					<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development					26,773	7,936	8,302	6,933	TBD	TBD
Subtotal Support and Management					1,549	461	525	215	TBD	TBD
Subtotal Test and Evaluation					111	33	60	52	TBD	TBD
Total Project					28,433	8,430	8,887	7,200	TBD	TBD