

# ARMY RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)

**February 2005**

**BUDGET ACTIVITY**  
**7 - Operational system development**

**PE NUMBER AND TITLE**  
**0208053A - Joint Tactical Ground System**

**PROJECT**  
**635**

COST (In Thousands)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost
635 JOINT TACT GRD STATION-P3I(TIARA)	9568	9822	12854	14817	23281	8043	18955	7846	0	Continuing

**A. Mission Description and Budget Item Justification:** This program element supports development of critical improvements and insertion of technological upgrades to the Joint Tactical Ground Station (JTAGS). JTAGS is a transportable information processing system that receives and processes in-theater, direct down-linked data from Defense Support Program (DSP) satellites. JTAGS disseminates warning, alerting, and cueing information on Tactical Ballistic Missiles (TBMs) and other tactical events of interest throughout the theater using existing communication networks. This program is designated as a DoD Space program. JTAGS is designated the in-theater element of the United States Strategic Command's Theater Event System. JTAGS supports all Theater Missile Defense pillars and by being located in-theater, provides the shortest sensor to shooter connectivity. The objectives of the improvements are to upgrade JTAGS to the Multi-Mission Mobile Processor (M3P) configuration for operation with the next generation of the space based infrared satellites, Space Based Infrared System (SBIRS), and to improve system accuracy and timeliness. The M3P development for the SBIRS is a cooperative (joint interest) developmental effort with the U.S. Air Force. On January 13, 2005, the Program Executive Office (PEO), Air, Space and Missile Defense (ASMD) merged with the PEO, Tactical Missiles (TM) to become the PEO, Missiles and Space (MSLS). JTAGS is an integral part of the Army Missiles and Space System of Systems (SoS) architecture.

<b>Accomplishments/Planned Program</b>	FY 2004	FY 2005	FY 2006	FY 2007
Continue Block I & Begin Block II M3P Integrated Product and Process Development (IPPD)	6717	7967	9554	8117
Continue Block I & Begin Block II M3P Development	773	0	3300	6400
Continue Block I M3P Test and Evaluation Support	2078	1855	0	300
<b>Totals</b>	<b>9568</b>	<b>9822</b>	<b>12854</b>	<b>14817</b>

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<u><b>B. Program Change Summary</b></u>	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	9967	13356	15033
Current Budget (FY 2006/2007 PB)	9822	12854	14817
Total Adjustments	-145	-502	-216
Net of Program/Database Changes			
Congressional Program Reductions	-145		
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			
Adjustments to Budget Years		-502	-216

<u><b>C. Other Program Funding Summary</b></u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
BZ8420 Joint Tactical Ground Station Mods (JTAGS)	0	0	7654	325	0	0	7196	5557	Continue	Continue
BZ8430 JTAGS M3P Institutional Training Equipment	0	0	4994	9396	0	0	0	0	Continue	Continue

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**D. Acquisition Strategy:** Under this program element, critical improvements will be developed making maximum use of Non-Developmental Items/Commercial Off-The-Shelf elements. After design and integration, the system will be subject to thorough developmental and operational testing to verify performance and operational effectiveness and suitability. Both Block I DSP Only M3P (DM3P) and Block II (SBIRS High) Geosynchronous M3P (GM3P) are joint interest developmental efforts with the U.S. Air Force and involve cost sharing of the acquisition.

# ARMY RDT&E COST ANALYSIS(R3)

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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Primary Hardware Development	C/CPAF	Lockheed / Sunnyvale, CA	26663	0		3300	1Q	6400	1Q	Continue	36363	Continue
b . Engineering Services	C/CPFF	Northrup Grumman/ Azusa, CA	4456	355	1Q	424	1Q	450	1Q	0	5685	0
c . In-House IPPD	N/A	Various	13334	3523		4392		3068		Continue	24317	Continue
d . Contractor Engineering IPPD Support	C/CPFF	Various	9767	2500	2Q	2738	2Q	2479	2Q	Continue	17484	Continue
e . Government Engineering IPPD	N/A	Various	11944	1381		2000		2120		Continue	17445	Continue
f . Government Furnished Equipment	N/A	Various	511	208		0		0		0	719	0
Subtotal:			66675	7967		12854		14517		Continue	102013	Continue

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II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . WSMR			590	312		0		300		Continue	1202	Continue
b . ATEC			1720	1182		0		0		Continue	2902	0
c . JITC			358	361		0		0		Continue	719	0
Subtotal:			2668	1855		0		300		Continue	4823	Continue

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IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost To Complete	Total Cost	Target Value of Contract
			0	0		0		0		0	0	0
Subtotal:												
Project Total Cost:			69343	9822		12854		14817		Continue	106836	Continue

# Schedule Profile (R4 Exhibit)

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Event Name	FY 04				FY 05				FY 06				FY 07				FY 08				FY 09				FY 10				FY 11			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
(1) (DSP Only) Multi-Mission Mobile Processor (DM3P) First Unit Equipped (FUE)									▲1																							
(2) Materiel Release Approval									▲2																							
(3) DM3P Full Operational Capability (FOC)												▲3																				
P3I Block I (DM3P)																																
DM3P Development																																
SBIRS System Test (SST)-9000 Combined DT/OT																																
DM3P Production Unit 2 Fielding (Army) (Ft. Bliss)																																
DM3P Production Unit 3 Fielding (Army) (CENTCOM)																																
DM3P Production Unit 4 Fielding (Army) (Colorado Springs)																																
DM3P Unit 5 Fielding (Army) (EUCOM)																																
DM3P Production Unit 1 Fielding (Army) (PACOM)																																

## Schedule Detail (R4a Exhibit)

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<u>Schedule Detail</u>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Continue P3I Block I Development	1-4Q							
Continue P3I Block I Development (DM3P DT/OT)		1-4Q						
Complete P3I Block I (DM3P Fielding) / Begin P3I Block II Development (Geosynchronous M3P (GM3P))			1-4Q					
Continue P3I Block II Development (GM3P)				1-4Q				
Continue P3I Block II Development (GM3P)					1-4Q			
Continue P3I Block II Development (GM3P)						1-4Q		
Continue P3I Block II Development (GM3P DT/OT)							1-4Q	
Continue P3I Block II Development (GM3P DT/OT and Fielding)								1-4Q