

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

February 2005

<b>BUDGET ACTIVITY</b> <b>4 - Advanced Component Development and Prototypes</b>				<b>PE NUMBER AND TITLE</b> <b>0603□50A - Integrated Broadcast Service (JMIP/DISTP)</b>				<b>PROJECT</b> <b>4□2</b>		
COST (In Thousands)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to Complete	Total Cost
	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate		
472 INTEGRATED BROADCAST SERVICE (JMIP/DISTP)	1968	4294	2762	0	0	0	0	0	0	10952

**A. Mission Description and Budget Item Justification:** The Integrated Broadcast Service (IBS) is the worldwide DoD standard network for transmitting tactical and strategic intelligence and targeting data within a common format and migrating to a single family of Joint Tactical Terminals (JTT) for improved operational jointness. The JTT is a totally integrated Joint Program (all services and Special Operations Command (SOCOM)) which was created to consolidate and replace existing IBS terminal functionality/capability, with a "common family" of common Integrated Broadcast Service-Modules (CIBS-M) (both hardware and software). This is required to implement the IBS Plan and consolidate/eliminate duplicative efforts. The JTT program leverages, early tech-based efforts initiated by organizations such as the National Reconnaissance Office (NRO). For efforts that contribute to increased value in performance or sustainment, management control will transition to the JTT Joint Program Office (JPO) and capabilities will be integrated into the CIBS-M family of hardware and software modules. The CIBS-M family of modules will be the "sole" provider, ensuring continued IBS interoperability to a variety of tactical receivers across DoD and the services. This program funds the design, development, test and evaluation of initial CIBS-M hardware and software modules, as well as implementing performance enhancements to the family of JTT equipment, and to training, equipping and supporting the warfighter with improved Joint Readiness and Interoperability. This family of modules disseminates encrypted intelligence broadcasts to commanders in a network centric environment. As recommended by the Analysis of Alternatives study concerning the JTT capabilities migration to JTRS, JTT will convert legacy IBS waveforms (IBS-I, IBS-S, TRIXs and TADIX-B) to a Software Communication Architecture (SCA) compliant equivalent and deliver those waveforms to the JTRS Joint Program Office (JPO) for inclusion in the JTRS waveform library. JTT will integrate the SCA compliant objective IBS waveform into the JTT system as it becomes available from the JTRS JPO.

FY 06 Funds support the development of the Integrated Broadcast Service (IBS) Common Message Format (CMF) to support migration to the IBS Worldwide standard DoD Network.  
FY 2006 completes the development.

<u>Accomplishments/Planned Program</u>	FY 2004	FY 2005	FY 2006	FY 2007
Develop and test modules for Software Communications Architecture (SCA) compliant legacy waveforms for JTRS.	1968	2000	0	0
Develop Integrated Broadcast Service (IBS) Common Message Format (CMF) to support migration to the IBS Worldwide standard DOD Network	0	2294	2762	0
<b>Totals</b>	1968	4294	2762	0

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<b><u>B. Program Change Summary</u></b>	FY 2005	FY 2006	FY 2007
Previous President's Budget (FY 2005)	4356	2769	0
Current Budget (FY 2006/2007 PB)	4294	2762	0
Total Adjustments	-62	-7	0
Net of Program/Database Changes			
Congressional Program Reductions	-62		
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			
Adjustments to Budget Years		-7	

<b><u>C. Other Program Funding Summary</u></b>	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Compl	Total Cost
V29600 Other Procurement, Army - JTT/CIBS-M (Tiara),	41380	13993	9862	949	950	702	0	0	0	67836

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**D. Acquisition Strategy:** Modifications for the design, development and delivery to JTRS JPO of JTRS SCA compliant legacy IBS waveforms will be awarded to Boeing under an existing Air Force contract, to complete ongoing work funded by USAF Airborne Intelligence System Program Office. The CMF development will be awarded to the JTT Original Equipment Manufacturer (OEM). As the broadcast networks continue to evolve and modify their formats and protocols, the JTT program will support IBS and various existing and future radios and host systems.

# 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 . JTRS SCA/IBS Modules	MIPR	Air Force/Boeing	2552	1429	1-4Q	0		0		0	3981	3712
b . Common Message Format	CPFF	Raytheon, St. Petersburg, FL	0	2225	1-4Q	2193	1-4Q	0		0	4418	2320
Subtotal:			2552	3654		2193		0		0	8399	6032

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
a . Matrix Support	MIPR	CECOM/RDCOM, Ft. Monmouth, NJ	720	240	1Q	200	1Q	0		0	1160	0
Subtotal:			720	240		200		0		0	1160	0

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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 . IOT&E support	MIPR	Various	1402	0		0		0		0	1402	0
b . JITC DAMA Certification of JTT	MIPR	JITC	400	0		0		0		0	400	0
c . JTIC Certification of CMF	MIPR	Various	0	0		200	4Q	0		0	200	0
d . JTEL Certification of SCA	MIPR	SPAWAR, CA	0	200	4Q	0		0		0	200	0
<b>Subtotal:</b>			1802	200		200		0		0	2202	0

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
a . Program Management	In House	PM JTT, Ft. Monmouth, NJ	782	200	1Q	169	1Q	0		0	1151	0
<b>Subtotal:</b>			782	200		169		0		0	1151	0

<b>Project Total Cost:</b>			5856	4294		2762		0		0	12912	6032
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# Schedule Profile (R4 Exhibit)

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Event Name	FY 04				FY 05				FY 06				FY 0□				FY 0□				FY 0□				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
JTRS SCA Compliant Legacy Waveforms																																
(1) Delivery for JTEL Certification of SCA Modules													▲ 1																			
CMF Development																																
(2) JITC Certification of CMF													▲ 2																			

## 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
Dev of SCA Compliant Legacy Waveforms for JTRS	2-4Q	1-4Q						
JTEL Certification of SCA Modules			2Q					
Common Message Format (CMF) Development		3-4Q	1-4Q					
JITC Certification of CMF			4Q					