

**UNCLASSIFIED**

<b>ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)</b>	DATE <b>February 2000</b>
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<b>BUDGET ACTIVITY</b> <b>3 - Advanced Technology Development</b>	<b>PE NUMBER AND TITLE</b> <b>0603280A Joint Tactical Radio</b>	<b>PROJECT</b> <b>D155</b>
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COST (In Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D155 Joint Tactical Radio System *	13404	0	0	0	0	0	0	0	24405

**A. Mission Description and Budget Item Justification:** The mission of the Joint Tactical Radio System (JTRS) Joint Program Office (JPO) is to develop a Software Communications Architecture (SCA) and software waveforms that will enable the Services to acquire a family of affordable, scaleable, high-capacity, interoperable Line of Sight (LOS) and Beyond Line of Sight (BLOS) radios. The Army is the Executive Service for this joint program. The singular functionality of current stovepipe systems requires a commensurate number of unique, noninteroperable radio systems. These systems lack the connectivity and throughput capacity to support required simultaneous networked voice, video, and data operations with low probability of intercept over multiple frequency bands. These inadequacies are addressed by requirements in the JTRS Operational Requirements Document (ORD). In addition, each unique current radio system requires significant allocation of space, weight, power, and cooling on weapons systems platforms, and has a costly logistics infrastructure. In addition to addressing the problems associated with stovepipe radios, the JTRS program will provide a significant increase in capability while providing a solid foundation for interoperability, and for achieving network connectivity across the Radio Frequency (RF) spectrum. This program element will provide definition and development of an open standard Software Communications Architecture. This architecture will support software versions of legacy military waveforms as well as new military and commercial waveforms. The open standards based architecture will provide the path for future hardware and software growth of delivered systems by allowing the Services to take advantage of advances in technology being driven by the commercial wireless communications marketplace. The overall JTRS program will provide software programmable and hardware configurable digital radio systems that demonstrate increased interoperability, flexibility and adaptability. JTRS will provide the operational forces with an upgraded communications capability, for more effective battlespace management and interoperability among Command, Control, Communications, Computers and Intelligence (C4I) Systems supporting the warfighters' goal of realizing a fully digitized battlespace.

<b>B. Program Change Summary</b>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (FY 2000/2001 PB)	15600	0	0
Appropriated Value	10100		
Adjustments to Appropriated Value			
a. Congressional General Reductions	-67		
b. SBIR / STTR	-266		
c. Omnibus or Other Above Threshold Reductions			
d. Below Threshold Reprogramming *	3677		
e. Rescissions	-40		
Adjustments to Budget Years Since FY 2000/2001 PB			
Current Budget Submit (FY 2001 PB)	13404	0	0

Change Summary Explanation: Below threshold reprogramming increased FY 99 funding (restructured from FY 98) for appropriate funding of SCA development.

\*FY99 funding in current database is shown as 9405. Next update will include approved reprogramming (see para. B), which increased total funding to 13404.

