

UNCLASSIFIED

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)	DATE February 1999
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BUDGET ACTIVITY 3 - Advanced Technology Development	PE NUMBER AND TITLE 0604280A Joint Tactical Radio	PROJECT D152
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COST (In Thousands)	FY1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY2004 Estimate	FY2005 Estimate	Cost to Complete	Total Cost
D152 Joint Tactical Radio System*	0	10033	0	0	0	0	0	0	0	10033

*A FY 98 \$15M Congressional Reprogramming into PE 0603280A, was approved December 1998.

A. Mission Description and Budget Item Justification: The Joint Tactical Radio System is a joint Research and Development program with the Army as the lead Service that will lead to the Services acquiring a family of affordable, scalable, high-capacity, interoperable Line of Sight (LOS) and Beyond Line of Sight (BLOS) tactical radios. The singular functionality of current systems requires a commensurate number of unique discrete radio systems. These systems lack the connectivity and throughput capacity to support the required simultaneous networked voice, video, and data operations with low probability of intercept over multiple frequency bands. In addition, each current system requires significant allocation of space, weight, power, and cooling on weapons systems platforms, and has associated with it a costly logistics infrastructure. Therefore, a consolidated systems approach to provide substantial increase in capability and interoperability, and to provide overall cost savings mandate an approach like JTRS. JTRS activity in this program element creates the foundation for achieving network connectivity across the RF spectrum. This program element will provide an open standards architecture monitoring and compliance, a supporting certification infrastructure, the development of a set of software-based legacy tactical waveforms as well as a new wideband waveform which functions in networked environment and will operate on hardware that is built to JTRS architecture standards. Together, the architecture, the hardware, and the software will yield software programmable and hardware configurable digital radio systems that provide increased interoperability, flexibility and adaptability. The open standards based architecture will also provide the path for future hardware and software growth of delivered systems at minimal cost by allowing the Services to take advantage of advances in technology being realized in the commercial wireless communications marketplace. The JTR 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. <u>Program Change Summary</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Previous President's Budget (FY 1999 PB)	10000	15600	0	0
Appropriated Value	0	10100		
Adjustments to Appropriated Value				
a. Congressional General Reductions		-67		
b. SBIR / STTR				
c. Omnibus or Other Above Threshold Reductions				
d. Below Threshold Reprogramming				
e. Rescissions				
Adjustments to Budget Years Since FY 1999 PB				
Current Budget Submit (FY 2000 / 2001 PB)	0	10033	0	0

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3 - Advanced Technology Development	0604280A Joint Tactical Radio	D152
<p>Change Summary Explanation: A FY 98 \$15M Congressional Reprogramming into PE 0603280A, was approved December 1998.</p> <p>FY 1998 Accomplishments: FY 1998 efforts are funded under PE 0603280A.</p> <p>FY 1999 Planned Program:</p> <ul style="list-style-type: none">• 1323 Continue JTRS Technical Support• 8047 Develop JTRS Architecture Building on a Baseline Definition Derived from the Previous Consortia Activities• 397 JTRS Program Support• 266 Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs <p>Total 10033</p> <p>FY 2000 Planned Program: Program is funded in Project D162, PE0604280A, Budget Activity 5..</p> <p>FY 2001 Planned Program: Program is funded in Project D162., PE0604280A, Budget Activity 5.</p>		
Project D152	Page 2 of 2 Pages	Exhibit R-2 (PE 0604280A)