

Integrated Defense Systems
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Joint Tactical Radio System, Ground Mobile Radios (JTRS GMR)

Description and Purpose:

The Joint Tactical Radio System, Ground Mobile Radios (JTRS GMR), a key enabler of network-centric communications, is a software-programmable radio system that provides secure, reliable, multi-channel voice, data, and video communications for mobile military users. This system delivers transformational networked communications on-the-move at the tactical edge to support information sharing and combat readiness. It puts the full power of the Global Information Grid into the hands of the warfighter and takes network situational awareness beyond the Tactical Operations Center.



Customer(s):

The Joint Program Executive Office for Joint Tactical Radio System (JPEO JTRS) manages the program for joint services. The JTRS GMR system, one segment of the JTRS family of software-defined radios, will be installed in U.S. Army vehicles such as Bradley, Abrams and HMMWV. In the future, it will be installed in Future Combat Systems vehicles.



Background:

A Boeing-led team, consisting of Northrop Grumman, Rockwell Collins and BAE Systems with support from Harris Corporation, is under contract to the JPEO to develop JTRS GMR. The JTRS GMR program develops hardware, the required software (operating environment, legacy and new waveforms), integrates, and then tests these systems for multiple military platforms.

The JTRS GMR program is meeting the JPEO-approved plan and is in the System Development and Demonstration phase. The program has met key milestones, including the availability of engineering development models for software development, integration and formal testing.

The pre-engineering development models of the GMR have logged more than 100,000 operating hours, including 20,000 hours in field tests and demonstrations. The first GMR EDMs for the Future Combat Systems program were delivered in February 2009 for use in software development, integration and testing.

Following testing and certification of the EDMs, the program will move to Milestone C and obtain approval to begin Low-Rate Initial Production in 2010.

Capabilities:

The Wideband Networking Waveform (WNW) is meeting its planned development and adding incremental capability as planned. The WNW is an application that improves situational awareness for soldiers on the move by allowing multi-channel voice, data, and video communications. The GMR is the only platform that can run the full WNW waveforms.

During the last two years, the program has demonstrated four-channel simultaneous operation with multiple waveforms.

As the program matures, projected unit costs in production for this expanded capability are consistent with other complex communications systems procurements.

History:

Since its inception, JTRS evolved from a radio replacement program to a network-enabling program for multiple weapon system platforms and forward combat units at the last tactical mile.

The JTRS GMR represents a fiscally-responsible investment in battlefield communications, enabling military forces to have timely and relevant information needed to make operational and tactical decisions rapidly. Boeing is leading this transition to a networked battlespace, and is committed to delivering an interoperability solution that will forever change the way information will be accessible and distributed in the future.

Contacts:

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