

Enhanced Position Location Reporting System Backbone of the tactical internet



The Raytheon Enhanced Position Location Reporting System (EPLRS) forms the backbone of the tactical internet. EPLRS is an adaptive jam-resistant network allowing high bandwidth tactical digital communications from many mobile users to many other mobile users.

Benefits

- Supports a broad range of missions through integration of battlefield communications.
- Delivers crucial information to the right place at the right time with optimal security and reliability.
- Automatic network construction, repair and relay through constant innovation and simple network management.
- Future upgrades assured through interoperability with systems such as JTRS (Joint Tactical Radio System) and externally programmable firmware.
- Jam-resistant, LPI/LPD, spread spectrum, frequency hopping waveform.
- Distribution of artillery fire requests and mission support data to multiple destinations simultaneously.
- Integrated into unmanned aerial vehicles.

EPLRS

EPLRS provides robust, mobile, high speed automated data exchange using a contention free network architecture. This guarantees speed of service for time-critical tasks.

EPLRS provides Manoeuvre Control Forces with information on unit identification, position location and operational status. This data can be displayed on various battle management systems using variable message format (VMF) messages.

EPLRS is the communication system selected for Air Defence, which demands not only distribution of command and control information but also the exchange of air-track data.

EPLRS fulfils Intelligence / Electronic Warfare's demanding requirements for collecting data from widely dispersed systems in forward battle areas.

The EPLRS network is a reliable system that automatically reconfigures itself to overcome the line-of-sight limitations of UHF communications as well as jamming threats.

The data communication, and position locating / reporting and navigation functions of EPLRS are important to logistic support operations.

EPLRS Network Manager

The network manager is a JAVA application that will run on any PC or Tablet utilised in the field.

It allows for easy network establishment, Over The Air Rekey (OTAR), link activation/deactivation and performance monitoring.

It automatically processes position location and ID information with a position accuracy to 15m (circular error of probability).



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