

Army Data Distribution System (ADDS)/Enhanced Position Location Reporting System (EPLRS)

Provides embedded situational awareness and position navigation for the warfighter using mobile, digitized, wireless data communications.

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



Description & Specifications

The Enhanced Position Location Reporting System (EPLRS) supports the Army’s digitized divisions and Stryker Brigade Combat Teams (SBCTs). EPLRS is the backbone of the Army’s Tactical Internet, providing data distribution and position navigation services in near real-time for the warfighter at brigade-and-below level, in support of Army Battle Command Systems (ABCS) and the Force XXI Battle Command Brigade-and-Below (FBCB2) program.

EPLRS consists of a network control station and the EPLRS radio, which can be configured as a manpack unit, a surface vehicle unit, and an

airborne vehicle unit. EPLRS uses a time-division, multiple-access communications architecture to avoid transmission contention. In addition, it uses frequency hopping and error detection and correction with interleaving. Spread-spectrum technology provides jamming resistance.

EPLRS is designed to be used as a common system for the Army, Air Force, Navy, and Marine Corps. Improvements to EPLRS include message reliability, more efficient available bandwidth, and field-programmable software.

Program Status

- **3QFY04:** Contract award for 711 EPLRS radios
- **FY06:** Fielding ongoing to SBCT 5

Projected Activities

- **FY05–07:** Continue fielding to Air National Guard Air Defense Artillery Units, SBCTs 4-6, 3rd Armored Cavalry Regiment, and III Corps Troops
- **FY05–07:** Field EPLRS retrofit kits (increases throughput to 288 Kbps) to 1st Cavalry Division and 3rd and 4th Infantry Divisions

ACQUISITION PHASE

Concept & Technology Development

System Development & Demonstration

Production & Deployment

Operations & Support

Army Data Distribution System (ADDS)/Enhanced Position Location Reporting System (EPLRS)

FOREIGN MILITARY SALES

None

CONTRACTORS

Radio design/production:

Raytheon (Fullerton, CA; Forest, MS; Ft. Wayne, IN; Garland, TX)

Engineering support:

British Aerospace Engineering (BAE) Systems (West Long Branch, NJ)

Fielding:

Innolog (Wall Township, NJ)
Engineering Professional Services (EPS) (Shrewsbury, NJ)

