

## Enhanced Position Location Reporting System: Legacy System Provides New Technology for Warfighters

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### INTRODUCTION

The Position Location Reporting System (PLRS) and its successor, the Enhanced Position Location Reporting System (EPLRS), were initiated during the later stages of the Vietnam conflict. PLRS was developed by the Marine Corps as a system to prevent troop casualties due to "friendly fire" or "fratricide." The Army, building on the PLRS technology, initiated EPLRS to provide more advanced communications capabilities. The Navy adopted PLRS and later EPLRS to provide communications and position location information in conjunction with the AN/KSQ-1 Amphibious Assault Direction System (AADS) installed on many amphibious ships.

EPLRS serves all three services as a position location, identification, communications, and (sometimes) navigation system that incorporates the newest and most sophisticated technology. Two versions of EPLRS are currently in service. They each consist of two primary components, a network control element and a network of Radio Sets (RSs), as shown in Figure 1. The older version of EPLRS includes a Network Control Station (NCS), which has been replaced in the latest generation of EPLRS by an EPLRS Network Manager (ENM).

Both versions of EPLRS have similar capabilities but have some significant differences. The two systems are not compatible, primarily because of changes made in the RS firmware. Additionally, some of the functions performed by the NCS have been allocated to the newer version of the radio (e.g., position calculation and distribution). Other NCS functions (i.e., generation of Nav aids and Situation Display) are expected to be accomplished by the services' host computer systems, such as the Army's Force Battle Command Brigade and Below (FBCB2) system and the Marine Corps Command and Control Personal Computer (C2PC) system. Both versions of EPLRS provide important capabilities for the warrior. However, unless otherwise indicated, the information presented in this paper applies mainly to the ENM version of EPLRS.

The latest generation of EPLRS features a network of highly sophisticated RSs that provide high-data-rate (HDR) communications and real-time routing capability. Each RS now incorporates an embedded router that enables contention-free routing of data between communications services and makes one RS look like many radios (up to 32) to host equipment. The ENM provides distributed network management to the RSs that includes network planning, communication circuit information, system

### ABSTRACT

*The Enhanced Position Location Reporting System (EPLRS) originated more than 30 years ago during the Vietnam conflict as a system to prevent troop casualties due to "friendly fire," or "fratricide." The initial system, the Position Location Reporting System (PLRS), focused primarily on providing Position Location Information (PLI), identification, and navigation aides to the warfighters. This information was collected and (after processing) distributed by a simple but effective network of Radio Sets (RSs). The latest generation of Enhanced PLRS (EPLRS) retains the PLI, identification, and navigation capabilities of PLRS but incorporates the newest and most sophisticated technology into the communications network. The RSs provide high-data-rate (HDR) communications and real-time routing capability. Each RS incorporates an embedded router that enables contention-free routing of data between communications services and makes one RS look like many radios (up to 32) to host equipment. A newly developed computer program, the EPLRS Network Manager (ENM), which resides in a laptop computer, manages the RS network. The ENM provides distributed network management to the RSs that includes network planning, communication circuit information, system monitoring, fault detection and resolution, continuity of operations, and key management.*

# Eplrs Technical Manual

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## **Eplrs Technical Manual:**

**Hazard Controls for CECOM Radiofrequency and Optical Radiation Producing Equipment** ,2000 The Army Communicator ,1998 , **TB 11-5820-1292-23** Delene Kvasnicka, TB 11 5820 1292 23 **Army** ,2002 A Practical Guide for Exploiting FBCB2 Capabilities Bruce C. Leibrecht,2003 This document provides two products developed to support performance feedback regarding unit employment of the platform based digital command control and communication system known as Force XXI Battle Command Brigade and Below FBCB2 The Leader s Primer for Exploiting FBCB2 describes twenty two major FBCB2 capabilities the tactical significance of each capability the digital operator and user tasks involved in employing each capability the probability that the capability is being exploited and the evidence that the capability is not being exploited The FBCB2 Exploitation Tool identifies fifty digital performance goals and the tactical significance of each goal The tool identifies the echelon s to which each goal applies the trigger events that call for observation of unit performance relevant to the goal and guidance regarding where to obtain the data needed to assess unit performance Data are obtained by using one or more of the following mechanisms observing information on an FBCB2 system viewing breakouts of message traffic viewing breakouts of user interactions with systems and asking questions of warfighters DTIC Scientific and Technical Aerospace Reports ,1995 **IEEE PLANS ...** ,1988 Conference Record ,1995 Record ,1988 Aviation Week & Space Technology ,1988 Military Communications in a Changing World ,1991 Guide to the Evaluation of Educational Experiences in the Armed Services American Council on Education,2000 **The 2002 Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education,American Council on Education Staff,2005 Long considered to be the standard reference work in this area this three volume set describes more than 8 000 courses offered between January 1990 and the present by various service branches and the Department of Defense Long considered to be the standard reference work in this area this three volume set describes more than 8 000 courses offered between January 1990 and the present by various service branches and the Department of Defense **Proceedings of the ... Tactical Communications Conference** ,1990 **Government Reports Annual Index** ,1994 Government Reports Announcements & Index ,1994-11 Proceedings of the 1994 Asme IEEE Joint Railroad Conference American Society of Mechanical Engineers,1994-12 **Crisis Communications, the Promise and Reality** ,1987 **Communications-- Fusing Command, Control, and Intelligence** ,1992

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