



The **Enhanced Position Location Reporting System (EPLRS)** provides the Marine Air Ground Task Force with a robust, secure, high speed, digital data (only) communications network. Fielding has been completed to I-II-III MEF and is on going for IV MEF. EPLRS provides network management capabilities and is capable of independent position location reporting. EPLRS can also interface with SADL equipped aircraft to provide automatic friendly force positions on the HUD.

Background: The EPLRS data communications network interoperates with M/DACT, AFATDS, JSLNBCRS, and TDN among other systems using a unique routing protocol, typically between the Regiment, Battalion and Company levels.

Description: The EPLRS is a network of radios, AN/VSQ-2(C) V2, called radio sets and computers which host the EPLRS Network Manager (ENM) software program. The radios sets are controlled by the ENM. The ENM configures the radio links, commands radio set relay transmission and dynamically reassigns links as necessary to optimize the network reliability. The ENM can be shut down after a network is established or it can be used as an operational network monitor. Multiple ENMs can be used as monitors in a network. EPLRS is typically installed as a ground mobile unit but can be used as a man pack or airborne variation.

Operation Frequency: 8 channels between 420 & 450 MHz. Radio set: 10.25"x9.5"x5.5"; 28VDC, 26 lbs. Power out: Selectable 100-20-5-1 watt. Volume: 549 cubic inches.

System architecture: Synchronous time division multiple access, frequency and

EPLRS Fact Sheet



Radio Set



ENM

code division multiplexed, spread spectrum, frequency hopping, error detection and correction, semi-automatic rerouting, embedded crypto, and over-the-air-re-key.

MCTSSA Support: MCTSSA provides engineering support to MARCORSSYSCOM for system life cycle support and product enhancements performed by the system's prime contractor, Raytheon. MCTSSA provides direct support to the operating forces by assisting in the delivery of hardware and software upgrades, as well as providing helpdesk support.

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