

FORAX-WALL — EVOLVED FROM EXISTING MISSION-CRITICAL RF COMMS EQUIPMENT

FIBER OPTIC REMOTE ANTENNA EXTENSION - WIDE AREA LINEAR LINK

FORAX-WALL extends radio and cellular communications along a linear structure up to 90 miles (145 km) long, providing more than 900 square miles of Land Mobile Radio (LMR) and private LTE cellular communications. User's radios and registered cellular telephones operate throughout the entire system via radio base stations at the Base Node. "Foreign" cellular devices can be detected and protective/preventative actions implemented. Each Base Node supports six additional Antenna Nodes spaced up to 14 miles (22.5 km) apart.

The U.S. southern border can be equipped with radio and private LTE communications (plus cellular device detection) with 20± FORAX-WALL systems; the 4,000-mile northern border can be covered with 50-60 systems.

FORAX-WALL:

- ❖ **Provides > 900 sq. miles of LMR and private LTE communications to user**
- ❖ **Detects "foreign" cellular devices; protective/preventative measures can be implemented**
- ❖ **Needs user LMR radio(s) only at the Base Node**
- ❖ **Integrates with existing user radio system or operates independently**
- ❖ **Installs using rugged, tamper-proof IP67 sealed enclosures and a single optical fiber**
- ❖ **Supplies TCP/IP connectivity between all nodes**



Users have these capabilities:

- ❖ **Wide-area radio communications** — Delivers line-of-sight communications for P25 radio systems (or any other LMR system) out to 5 miles on either side of the FORAX-WALL system.
- ❖ **Wide-area LTE cellular communications** — Delivers private cellular network communications to registered mobile telephones; can detect "foreign" cellular devices, with options for protective/preventative actions; provides Gigabit TCP/IP networking between nodes; offers optional redundant fail-over fiber architecture.

FORAX-WALL is evolved from existing equipment deployed by the U.S. military and industrial users. Deliveries can begin 10 mo. after receipt of order.

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