

- **Platform for automating the process of assessing Quality of Service in a location network**
- **Supports all air interfaces**
- **Over the air LAM Device script configuration**
- **Generates and collects call data based on time, distance, zone boundaries or other user defined events**
- **Can be deployed as a mobile or fixed operational configuration**

LocationAssurance Manager™

LocationAssurance Manager (LAM™) assesses the performance of any commercially deployed location network by proactively monitoring the system in real time, identifying trouble spots and analyzing the quality of service. LAM is an operational support system (OSS) delivering service assurance for the location network. LAM consists of three components: LAM Device – location assurance device that collects location network quality and performance information, LAM Location Server, which automates test calls, data collection and aggregation and provisions test scripts, and LAM Reporting Server which collects and stores all test call data and generates user defined views or custom reports such as an OET-71 compliant report.

LAM Device

LAM Device test probes are a combination of hardware and software that automates in-field test call processes associated with testing, verifying, calibrating and evaluating the performance of location networks. LAM Device behaves like a standard wireless phone in the network. It places calls at pre-determined programmable intervals, or on-demand to predetermined destination numbers. LAM Device is location-enabled to match the technology of the location network used by the carrier. LAM Device is equipped with a Differential GPS (DGPS) receiver and may be configured for stationary, mobile or backpack configuration. Each device is equipped with a micro-controller (CPU) and associated script for call initiation, termination and test personalities.

LAM Location Server

LAM Location Server enables the automation of service quality measurement activity via test call generation or statistical data collection from the point in the network the service is being delivered. It receives operational telemetry data and delivers test scripts to each LAM Device via a wireless data path (CDMA2000 1X, GPRS or iDEN™).

LAM Reporting Server

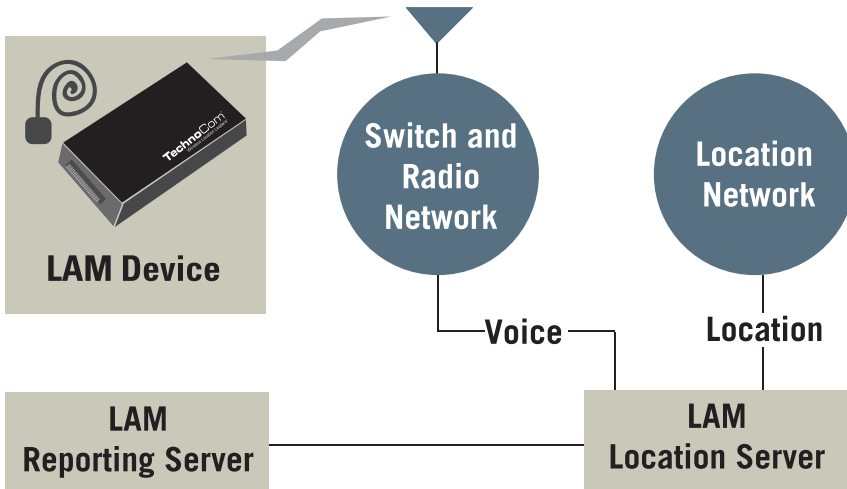
LAM Reporting Server is the reporting interface for LAM and all supporting modules. It has an intuitive and powerful graphical user interface (GUI). LAM Reporting Server collects usage data from network elements such as GMLC, SMLC and MSC and also collects automated or manually generated test call data from the LAM Location Server. LAM Reporting Server aggregates these events and datasets into performance trends and statistics.

TechnoCom™
Wireless Location Leaders®

16133 Ventura Blvd., Suite 640
Encino, California 91436-2403
ph.818.501.1900
fx.818.501.1919
www.technocom-wireless.com

© Copyright 2004 TechnoCom Corporation®. TechnoCom and Wireless Location Leaders are registered trademarks, LocationAssurance Manager, LAM and the TechnoCom logo are trademarks of TechnoCom Corporation. All other trademarks are the property of their respective owners.

LocationAssurance Manager



LocationAssurance Manager

LAM Device

- Provides real-time monitoring of end-to-end location systems
- Provides real-time visibility into location network performance
- Provides core data to assess accuracy capabilities of commercially deployed location technologies (AGPS, GPS, TDOA, RFS)
- Provides core data for E911 Quality of Service (QoS) and OET-71 applications

LAM Location Server

- Manages the end-to-end process for assuring E911 QoS in the location network
- Collects, stores and processes data records from the MSC and GMLC/MPC for each E911 test call
- Mediates the operation of LAM Device, collects and merges the test data
- Generates and forwards test results to the LAM Reporting Server

LAM Reporting Server

- Generates operator defined views and reports
- Generates OET-71 compliant report
- Filters data by region, market, or user-defined area
- Filters data by infrastructure equipment: MSC, PDE/SMLC, MPC/GMLC
- Filters data by a LAM Device or group of LAM Devices

LAM Applications

- Automated OET-71 report module
- Ongoing E911 Quality of Service module

Location Technology

- 16 channel, WAAS capable GPS receiver with optional differential correction

Location Accuracy

- 3 meter CEP (with SA off)

Communication Networks Supported

- CDMA2000 1X
- GSM/GPRS
- TDMA
- iDEN

Size

- 6 7/8" X 3 7/8" X 1 5/8"

Weight

- 1.5 lbs

Power Source

- Vehicle 9-36 VDC

Power Consumption

- Less than 500 mA at 12V (active)
- Less than 10 mA (sleep mode)

Environmental

- Operating Temp.: -10° C to +60° C
- Storage Temp.: -30° C to +70° C
- Humidity: 5% to 95% non condensing
- Shock and Vibration: SAE J1455
- EMC/EMI: SAE J1113

Comprehensive I/O

- 4 isolated TTL/CMOS Inputs optionally used for call control
- 4 LED Drive Outputs (20 mA) optionally used for call and test status notifications

Connectors

- TNC (PCS/Cellular antenna)
- SMA (GPS antenna)
- DB-9 (serial port)
- Power and Vehicle I/O

Mounting

- Side flanges for tie wraps or screws

Warranty

- 1 year parts and labor

Accessories

- 3V Active GPS antenna
- PCS/Cellular stub antenna
- Remote mounting antenna cable
- Harness for Power, I/O and Serial connections
- 110 Volt adapter