



Openwave® Location Manager: Emergency Services (International)

European E-112

Japan 110

Canadian E-911

Egyptian E-123

Now that location technologies have become reliable and affordable, governments are requiring operators to supply caller location to the Public Safety Answering Points (PSAP) during emergency call setup. Openwave Location Manager Emergency Services (International) is uniquely suited to meet phase 2 of Canada's E-911, Europe's E-112 and Japan's 110 regulatory mandates.

Location Manager Emergency Services (LMES) is a carrier-grade location platform that enables the deployment of government-mandated mobile subscriber emergency services in a timely and cost-effective manner. The platform gives subscriber location with an accuracy that meets or exceeds regional mandatory requirements. It also routes emergency calls to the planned PSAP. LMES is compliant with Canadian, European and Japanese regulatory standards.*

Operator Benefits

Openwave offers 99.999% or better uptime of its emergency services platform. The system is designed to scale as demands on emergency services grow and as the technology migrates. LMES works seamlessly across the disparate network technologies — CDMA, GSM /UMTS and IDEN — which makes migrating emergency services to 4G networks easier.

In addition, Openwave can implement the solution that fits operator's network needs and government mandates. LMES is part of Openwave's location portfolio and works with the commercial edition of Location Manager (LMCE).

**The Canadian Radio-television and Telecommunications Commission (CRTC) mandated compliance with Phase 2, Stage 1 requirements of E-911. The European Union location-enabled 112 to create EU Directive E112.*

Subscriber Benefits

LMES automatically provides the best known location to the PSAP, making it easier for emergency service providers to locate a distressed person. If a subscriber is unable to provide his or her location, emergency help can still be dispatched.

Location accuracy for non-GPS phones is based on the closest cell site or closer. For the GPS phones, accuracy is typically within 30 meters (depending upon GPS availability and device capability).

Features

- Regulatory Compliance
 - Canadian CRTC E-911 Phase 2, Stage 1
 - EU Directive E-112
 - Japanese 3GPP TS 25.302
 - Egyptian E-123
- Call Routing
 - ESRD (Emergency Services Routing Digits)
 - ESRD and CBN Key Support
- Technology Support
 - CDMA
 - GSM/UMTS
 - IDEN
- Location Technology Support
 - CDMA: PDE
 - GSM /UMTS: SMLC/SAS/iSMLC
 - SUPL
- Network Protocols
 - SS7
 - SS7 SIGTRAN
- MLP – Mobile Location Protocol
- Reliability: 99.999% or better
- Redundancy: Geo-redundancy, Hot Standby Address Location Information Database Interface for caller location retrieval



Openwave Location Manager: Emergency Edition (International)

The originating mobile subscriber's emergency call is routed by LMES to the pre-configured destination PSAP. The PSAP requests the location from the Address Lookup Information (ALI) interface that queries Openwave LMES platform for location. LMES platform presents the best known location of the subscriber to PSAP through ALI.

Openwave LMES platform is made of following components:

- **Policy Manager** manages calls and enforces emergency regulations.
- **ALI Interface** serves the location information to the ALI system.
- **Location Gateway Interface** works with location modules to grab the best available subscriber location.
- **Mobile Application Provisioning System** helps in provisioning and management of the LMES platform.

System Requirements

- Servers: Sun 5220, 5240
- Optional: Sun blade architecture machines
- Operating Systems: Solaris 10
- Databases: ISAM, Oracle 10g
- Third party tools: ESRI GIS

About Openwave Location-Based Services

For over a decade, Openwave has been developing, delivering, deploying and supporting carrier-grade emergency and commercial location-based services for operators throughout the world. Openwave has led the location industry with a number of firsts:

- The first location gateway to the marketplace (1996)
- The first mobile emergency services solution deployed in the United States (1997)
- First ANSI-41 A-GPS E911 call (2001)
- The first commercial services solution in Europe (1998)
- The first friend finder application deployed (2001)
- The first E911 Phase II emergency services deployment in the United States (2001)
- The first emergency system to be used with SUPL in the world (2007)

Openwave actively collaborates with leading carriers and ecosystem partners worldwide to bring location-based services to next-generation wireless networks.

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About Openwave

Openwave Systems Inc. (Nasdaq: OPWV) is one of the world's leading innovators of software applications and infrastructure designed to enable revenue-generating, personalized services, including mobile analytics, content adaptation, mobile and broadband advertising, and a suite of unified messaging solutions.

As the communications industry intersects with the Internet, Openwave software enables service providers to converge services, in an effort to increase the value of their networks by accelerating time to market and reducing the cost and complexity associated with new service deployment. Openwave's unique product portfolio provides a complete range of mobile internet service management, messaging, and location based solutions. Openwave is a global company with a blue chip customer base spanning North America, Latin America, Australia and New Zealand, Asia, Africa, Europe, and the Middle East. Openwave is headquartered in Redwood City, California. For more information please visit www.openwave.com.

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