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Caller Location for E112 in Europe

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Why is Emergency Caller Location Important?



- Caller may be unable or incapable of providing details of their location.
 - Medical emergency
 - Criminal assault or abduction
 - Disability/Impairment
 - Language
- Reduces emergency response time
- Assists operational and resource efficiency
- Helps to identify malicious/hoax callers
- E112 Caller Location - Saves Lives

European E112 Location Directive



- **Mobile operators should provide caller location to the best that is available.**
- **Member States shall ensure that caller location Information is made available free of charge, and as soon as the emergency call reaches the authorities handling the emergency including E112.**
- **Caller Location + Immediate Availability**

Another consideration - EU Data Retention Directive



DIRECTIVE 2006/24/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 March 2006

on the retention of data generated or processed in connection with the provision of publicly available electronic communications services or of public communications networks and amending Directive 2002/58/EC

Article 1 Subject matter and scope

2. This Directive shall apply to traffic and **location data** on both legal entities and natural persons and to the related data necessary to identify the subscriber or registered user.

Article 5 Categories of data to be retained

(f) **data necessary to identify the location of mobile communication equipment:**

(1) the location label (Cell ID) at the start of the communication;

(2) data identifying the geographic location of cells by reference to their location labels (Cell ID) during the period for which communications data are retained.

What are the choices and how can we help you ?

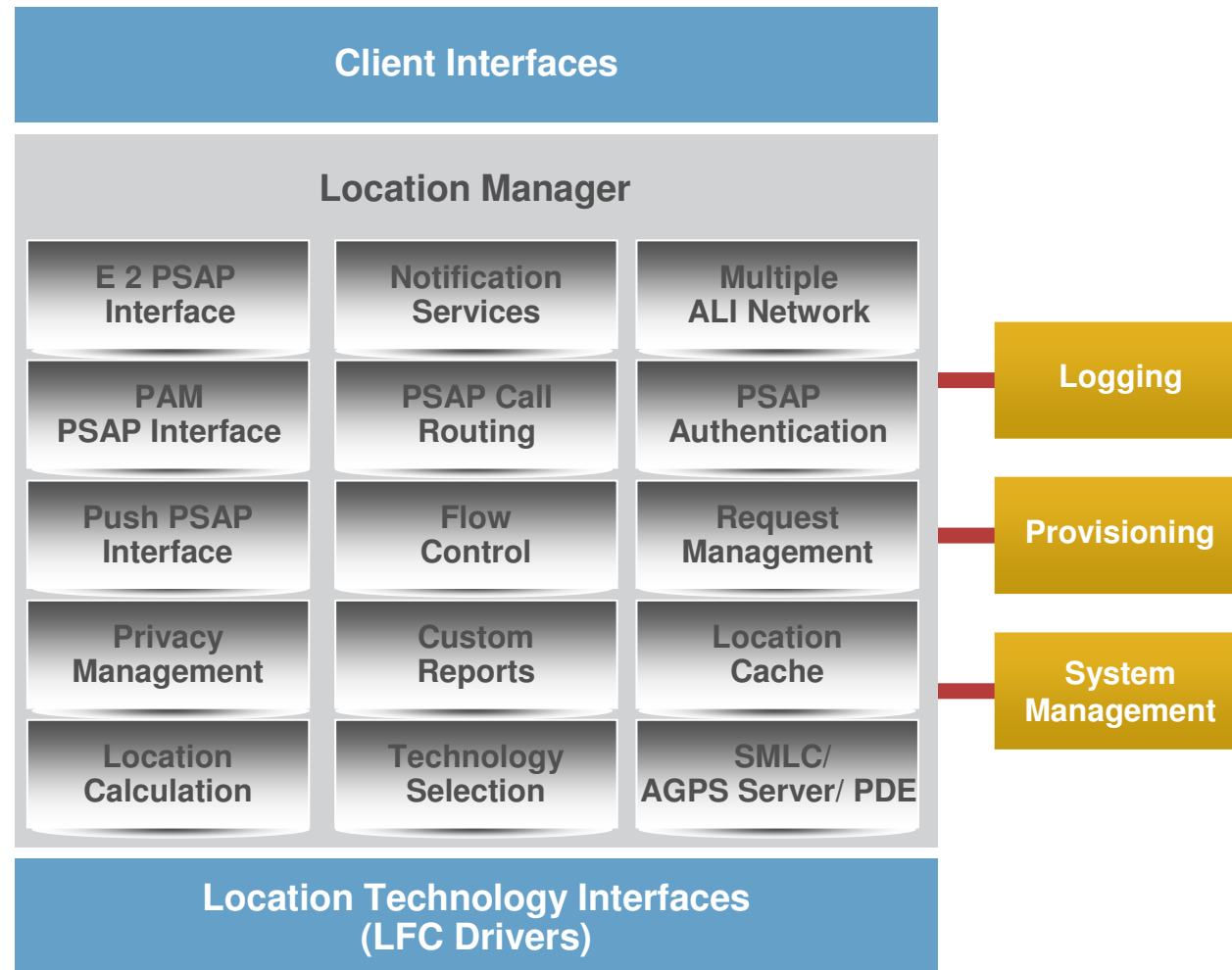


- E112 location mandate does not stipulate a location accuracy requirement.
- There are several location options available with varying degrees of accuracy and cost.
 - highest accuracy is best if available
 - generally this = higher cost and complexity
 - Ability to support 2G, 3G, 4G and nextgen E112?
- Openwave has been providing Emergency gateway, routing and location platforms for over 10 years.
 - What is the best technology for my network?
 - Solution choice to meet regulatory obligations and budget?
 - Leverage from our E911 experience and technical expertise.

Location Manager - Emergency Edition Functional Components



**It's not
just about
location:**



Openwave Value Proposition



Satisfies Government Mandates

- Supports e911/e112 deployments
- Supports Mobile & VoIP operators
- Anticipate emerging mandates

Reduce TCO with Flexible Architecture

- Single box LBS infrastructure solution for many GSM/UMTS/LTE deployments
- Single LBS infrastructure for CDMA networks migrating to next generation technology (e.g. LTE)

Scale to Support Large Deployments

- LMEE is deployed in one of the largest mobile networks in the US and handles millions of emergency calls per month.



Openwave Overview



Openwave is one of the world's leading software **innovators**, enabling **revenue-generating** personalized services which converge the **mobile and broadband** experience

- Headquarters: Silicon Valley
- Employees: ~600
- Status: Publicly traded on NASDAQ — OPWV
- Dev. Centers: APAC, Europe and Americas
- Patents: 176 US and 35 global patents across product portfolio
- Product Focus: Service Management, Messaging and Location

www.openwave.com

Openwave Customers



70+ Mobile Operators

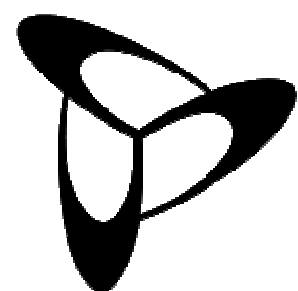


25+ Broadband Operators



10+ Years Providing Carrier Class Mobile Data Services

Over 560M Mobile Data Subscriber Footprints Worldwide



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