

# Lawful Intercept

## Minimising the cost of compliance

**Lawful Intercept solutions** – enabling mobile network operators to comply with Lawful Intercept (LI) mandates in the most cost effective way possible.

Minimising the impact on your network infrastructure, ensuring compliance with standards, and maintaining high availability with proven, world class technology.

Creativity Software has leveraged its commercial expertise to offer a range of turnkey solutions to fulfill the needs of emergency and security applications that need accurate, real time location information.



### Minimise your compliance costs whilst generating RoI opportunities

Mobile devices are now ubiquitous. In addition to the commercial opportunity generated by the ability to target specific services to mobile device users, based on location, there are also a wide range of public-sector applications that need to be supported.

### Benefits to the mobile network operator:

- » Comply with Lawful Intercept mandates in the most cost effective way possible
- » Minimise disruption to your network infrastructure and architecture
- » Maintain network reliability
- » Benefit from the commercial returns Location Based Services can generate
- » Enjoy scalable compliance solutions
- » Ability to comply with regional and country-specific standards and regulations
- » Provide information to Law Enforcement Agencies (LEAs) in the required format
- » Integrate seamlessly with Law Enforcement monitoring centres
- » Lowest CAPEX and OPEX costs





## The need

The ability to accurately locate mobile devices is becoming an essential element in the provision of emergency and safety services and for the compliance of Law Intercept (LI) mandates by mobile network operators.

## Emergency and security applications

Creativity Software's solutions can be deployed in any network and enable any device to be located. By leveraging widespread technologies such as Cell ID and CITARx, we do not impose significant overheads on the network and do not require the support of specialist, GPS-enabled devices. This provides a cost-effective migration path to support public safety applications.

Creativity Software offers solutions for both emergency (E.911 / E.112) and security (LI) applications.

In both cases, Creativity Software is able to offer a turnkey solution, consisting of:

- » Location positioning equipment
- » Location enabling middleware
- » Location applications

Applications can be customised to the specific requirements of the agency concerned, allowing complete control over the requested information.

## Robust solutions

Creativity Software's solutions provide a simple addition to existing infrastructure and take advantage of data available in mobile networks to generate real time, accurate positioning information. A variety of techniques can be supported, including:

- » Applications
- » Timing Advance (TA)
- » Cell ID, based on cell handover and location update
- » CITARx/RxLEV.

These techniques allow accurate locating of any mobile handset in any physical environment without the overhead and additional cost demanded by GPS or TDOA-based systems.

Additionally, they do not suffer from degradation in dense urban environments, unlike GPS which requires clear line-of-sight for consistent accuracy.

## Location based emergency services

Accurate location knowledge is now a key element in the provision of emergency and safety services.

International and national governments are mandating the use of positioning information to assist in the co-ordination of responses to emergency alerts, via standards such as E.911 and E.112.

Such systems provide the location of mobile devices to those responding to an emergency, ensuring that they can locate mobile devices in any situation. Emergency service providers can leverage this information for a variety of applications, such as:

- » Locating patients/incidents
- » Improving response times
- » Efficient deployment of response teams
- » Co-ordinating responses

## Location based security services

The ability to locate and track mobile devices and equipment accurately, in real time, provides agencies with a critical advantage in a wide range of security situations.

Creativity Software enables operators to locate and track the movement of target mobile devices via a complete end-to-end solution.

Information can be used to identify, locate and track targets. This information can be leveraged by LEAs for a variety of applications, including:

- » Lawful Intercept
- » Person tracking
- » Asset location
- » Optimised resource management

Geo-fence applications can be configured so that tracking is triggered when a target enters or leaves a specified area, when coverage is established or broken, or when in proximity to other target assets. We can also provide 'Targeted efficiency' which enables authorised agencies to select the most relevant information only.

Creativity Software can also provide a comprehensive passive probe solution for collecting distributed signalling data across a complete network.

## Contact us

For more information about how Creativity Software can enable your Lawful Intercept requirements please visit:

[www.creativitysoftware.net](http://www.creativitysoftware.net)

or contact us at

[sales@creativitysoftware.net](mailto:sales@creativitysoftware.net)



## About Creativity Software

Creativity Software is a UK company that specialises in Location Based Services. The company provides Mobile Network Operators globally (GSM & CDMA, 2G & 3G) with Location Positioning Infrastructure, Middleware and Applications, enabling them to:

- (1) comply with lawful intercept government legislation
- (2) deploy zone billing, and
- (3) deploy new revenue-generation services for both consumers and enterprises.

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