



A unique micro-proximity sensor solution for integration into a Safe City system, providing mobile subscriber information and proximity

Presence for Safe Cities

Guarding borders, points of entry and sensitive locations

5G

4G

3G



Presence for Safe Cities

With the unique presenceSensor, ip.access has designed a device and award winning solution that can take government agencies into new territory for security and border protection.

Presence for Smart Cities is a unique low-cost, micro-proximity sensor system providing mobile subscriber information and location which can be used in conjunction with other data sources to provide meaningful, actionable data for government agencies. ip.access offers the full solution as either a hosted or locally deployed system with full north bound integration APIs.

presenceSensors do not connect into the core network, but are designed to capture critical user information including location, dwell time, IMSI and range, to support Big Data Analytics applications such as footfall analysis.

presenceSensors deliver real-time, targeted presence-based handset detection.

“Always On” Location

Unlike location systems with only Wi-Fi or Bluetooth, which require users to turn on, opt-in and download an app, presenceSensors use the cellular network protocol to capture information from passing handsets - automatically, securely, and with no user intervention required.

Targeted, fine-grain LBS

presenceSensors can be configured and optimally located to serve smaller, much more targeted areas than is possible using cellular Location Based Services (LBS). They can be configured to cover a particular area, such as entry and exit ramps, security areas or outdoor border control points.

Dwell Time

As well as detecting passing UEs, the solution can determine how long each UE stays within range of a given presenceSensor.

Application examples

- Airports
- Sea ports, including ferry ports
- Border crossings for foot traffic and vehicles
- Railway stations
- Critical security check points
- Critical infrastructure sites

Special Award



Presence for Safe Cities won the highest ranking prize, the 'Special Award', at the Security Innovation Awards, Essen 2018

Smart city and critical infrastructure border solutions, delivering new data streams for personal identification analysis. Precise location enabled through close proximity radio sensors supporting cellular and unlicensed radio technologies. Enabling enhanced levels of security and protection for all.

Solution Components

presenceSensors

The presenceSensors are small, unobtrusive, self-contained and easy to deploy.

The P60 provides LTE presence sensing capabilities. It requires power and network connections only.



P60 LTE presenceSensor

The P110 provides 3G presence sensing capabilities, with options for Wi-Fi and Bluetooth detection. The P110 only requires a power connection as it uses the 3G macro network to report back to base.



P110 3G presenceSensor

Optionally co-locate a P60 with a P110 for both LTE and 3G detection capabilities. In addition, the P110 can provide a network connection for the P60.

Presence Central Office System

Collects the sightings data from the presenceSensors. Option for real-time forwarding of sightings data to an external system.

Virtualised components with options for full data centre installation and portable installations.

Commercial Carrier Grade Components

Commercially tested and deployed systems with carrier grade hardware and software.

Regulatory Compliance

Personally identifying information is encrypted to conform with all local regulatory and statutory requirements.

City-wide Protection

