

[FUNCTIONALITY SHEET]

Function: Standards-Based Location System

Advanced wireless applications that utilize 802.11 WLAN network, RFID tags and middleware to provide specific location information for things or persons

Accurate location capability

Near real-time feedback



ASCOM i62 LOCATION WITH EKAHAU RTLS

The Ascom i62 location with Ekahau is a WiFi positioning solution. Ekahau's location based services together with Ascom's high-end VoWiFi handset form a reliable location solution.

Businesses like the industry and health care sectors, that are using the Ascom i62 handset, will benefit from this feature as there is no need to invest in any specific infrastructure components like additional readers or antennas.

The Ascom/Ekahau secure tracking solution offers the ability to locate things or people over any generation of WiFi networks.

The solution aims to provide location-based services as well as personnel security with the option to send alarms. The position of the person carrying the handset can be estimated with pinpoint accuracy and rapid assistance can be sent.

Location – a solution for enhanced personal safety

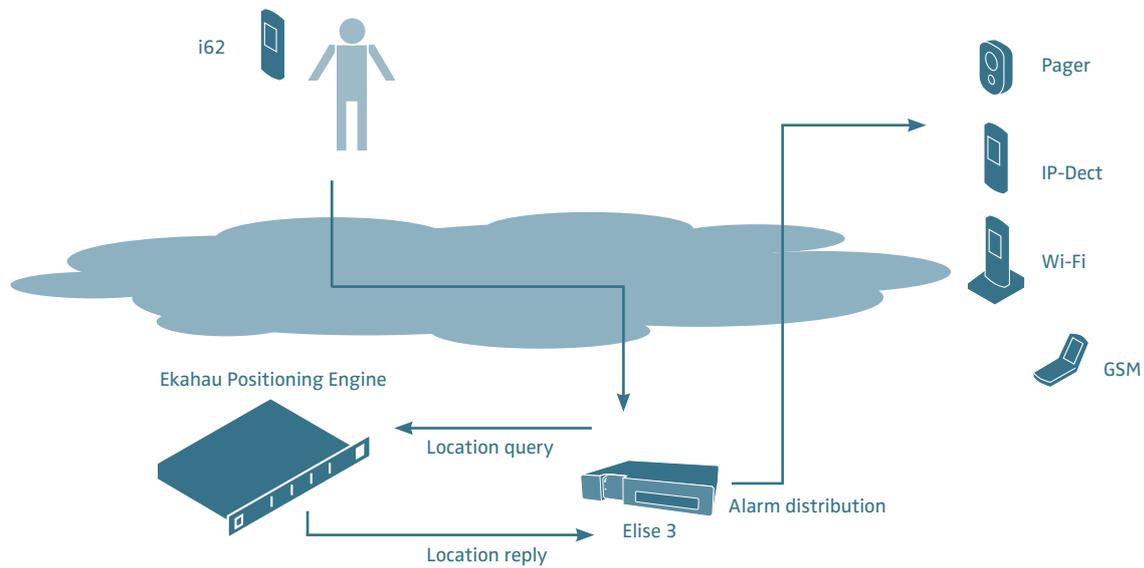
Sending an alarm is only one part of the chain of events. The alarm must be forwarded to people acting upon it. If the location of the alarming device is known, the time to find the person in trouble can be reduced significantly.

The Ascom VoWiFi system handles initiation and transmission of all alarms, forwarding of alarms to user groups and creation of escalation chains. The Ascom system is also handling forwarding of alarms to external systems such as GSM, sirens, flashlights etc.

In case of an alarm from the Ascom i62 the following details in the alarm message are displayed:

- The identity (usually the call number) or username of the device.
- The time for the alarm
- Location info e.g. building A, room 12

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Benefits

- Quickly locate key personnel
- Reduce lost time searching for assets
- Ensure that valued assets stay in facility
- Eliminate hoarding of assets
- Improve inventory management

Improved accuracy with Ekahau RTLS

This solution involves the Ekahau Positioning Engine that uses the WLAN network topology to calculate the location of mobile devices.

At a configurable interval, the Ascom i62 scans the environment for access points. All access points identities and their measured radio field strength (RSSI) are collected and reported to the positioning engine according to Ekahau location protocol.

The Ekahau Positioning Engine calculates the location of the Ascom i62 by using the RSSI measurements to triangulate or fingerprint mobile devices within the WLAN environment as soon as the access point report is received. This means that the location update speed is dependant of the configured Ascom i62 scanning interval and enables real-time tracking.