



WiFi E911® integrates with the leading WiFi networks to track WiFi phones as they move on the network.

## FEATURES

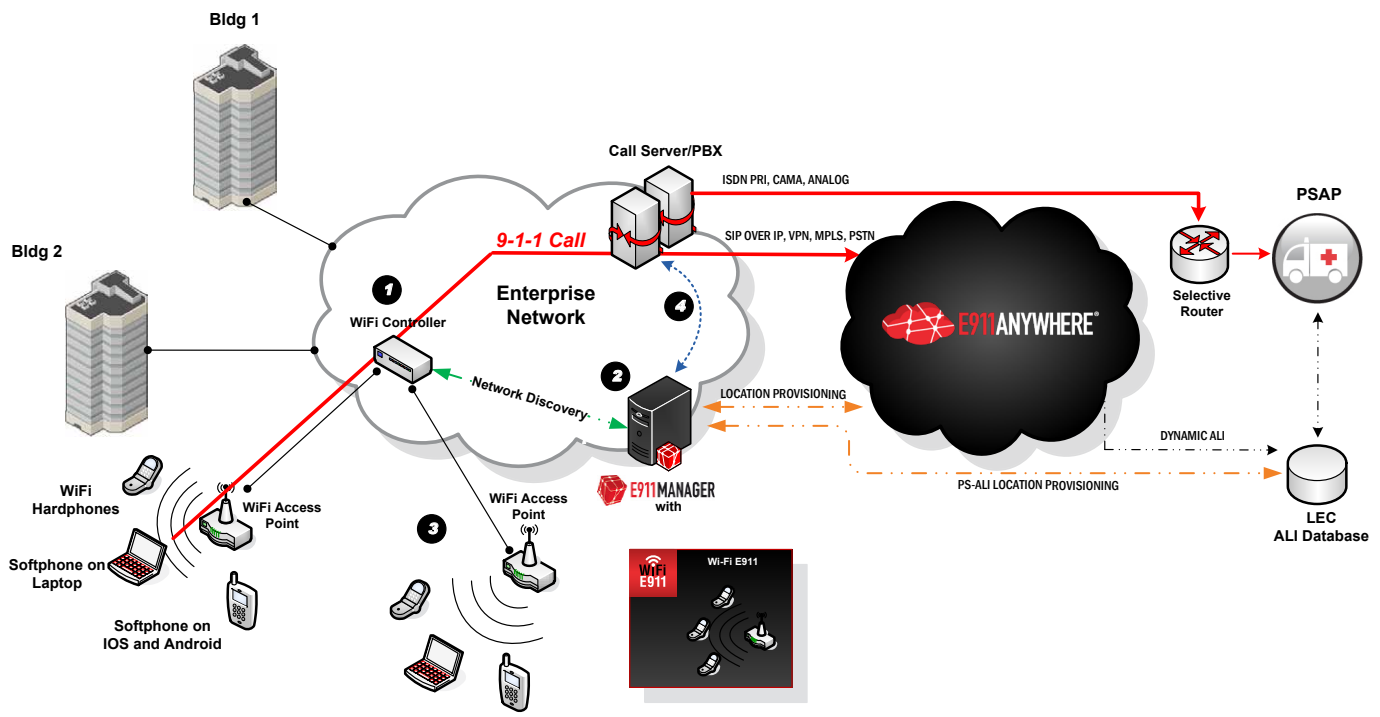
- » **Automatically tracks WiFi phone locations as they move**
- » **Does not require the phone to re-register with the call server/PBX**
- » **Integrates with the wireless controller for real-time tracking**
- » **Stores a location database of all wireless access points**
- » **Provides the correct ELIN to the call server/PBX at the time**

### OVERVIEW

WiFi E911® works seamlessly with the leading WiFi networks by integrating with the wireless controller to track the location of WiFi phones in real time. WiFi phones can register one time with the call server/PBX, and then roam from access point to access point without re-registration with the call server/PBX. Now softphones on laptops can roam anywhere on the enterprise WiFi network and their location is automatically updated. The WiFi E911® software module runs on RedSky's award-winning E911 Manager® platform that provides comprehensive location management, notification, reporting, and 9-1-1 call routing for enterprises, universities and government agencies. E911 Manager® and the WiFi E911® module integrate with the WiFi network controller to track phones in real-time. Each access point is assigned a location (ERL) and WiFi E911 keeps track of which phones are on each access point. When a 9-1-1 call is made by a phone on the WiFi network, E911 Manager® ensures that the proper ELIN (Emergency Location Identification Number) for the access point is outputted.

### INTEGRATION AND SCALABILITY

WiFi E911® is designed to achieve the highest degree of integration and automation. WiFi E911® integrates to the wireless controller and receives real-time updates from the controller when a phone moves from one access point to another. This provides real-time results as opposed to the delay-inducing polling techniques used by competitors. We know the exact access point a phone is associated with the second it moves. This integrated approach allows the WiFi module to scale to thousands of endpoints as well as access points making true campus wide WiFi mobility a reality.



## HOW WIFI E911® WORKS

1. The wireless network controller manages all access points and end points on the WiFi network. E911 Manager® uses an API to communicate with the wireless network controller to download a list of access points which are assigned a location (ERL) and an ELIN in E911 Manager®.
2. With the ERL and ELIN, E911 Manager® then creates a NENA2-location record (ALI) and populates the local LEC PS-ALI database or the E911 Anywhere cloud service for future 9-1-1 calls.
3. When a WiFi phone associates with a wireless access point, E911 Manager® receives a notification event with the MAC address phone. E911 Manager® then queries the WiFi Controller to determine access point association and assigns the previously defined ERL to the phone. Once the initial ERL is established for the phone, WiFi E911 'listens' for notifications sent by the WiFi controller to maintain accurate location information. This ensures the phone always has an up-to-date ERL as it seamlessly roams through the WiFi network.
4. When a WiFi phone dials 9-1-1, E911 Manager® ensures that the proper ELIN for the access point is outpulsed.
5. The call server/PBX sends the ELIN to the Public Safety Answering Point (PSAP) where the ELIN triggers a 'data dip' that retrieves the location record for the access point of the 9-1-1 caller.

## REQUIREMENTS

WiFi E911® is an optional feature of E911 Manager® Version 6. E911 Manager Version 6 is installed on a server in the enterprise network or as a cloud service via RedSky's private cloud. E911 Manager® Version 6 is compatible with leading industry virtual server implementations such as VMware.

## COMPATABILITY

- WiFi E911® is compatible with the following products:
- Cisco WiFi Networks with the Cisco Mobility Services Engine
- Aruba Wi-Fi Controller based Networks for all Aruba controller and campus access point models
- Aruba Controllerless Instant Wi-Fi Networks with AirWave Management Platform 7.7.5 for all Aruba Instant and Remote Access Point models
- Aerohive with HiveManager version 6

## ABOUT US

RedSky is the leading provider of on-premise and cloud-based E911 solutions with more customers, more technology, and more experience than any other provider. More than a million workers, students, guests and visitors rely on RedSky for E911 protection.