

## **E9-1-1 Location FCC Filings and Comments**

Enhanced 911 or E9-1-1 is a system used in North America that links emergency callers with the appropriate public resources. The system tries to automatically associate a location with the origin of the call. This location may be a physical address or other geographic reference information such as X/Y map coordinates. The caller's telephone number is used in various ways to derive a location that can be used to dispatch police, fire, emergency medical, and other response resources. Automatic location of the emergency makes it quicker to locate the required resources during fires, break-ins, kidnappings, and other events where communicating one's location is difficult or impossible.

Incoming 9-1-1 calls are typically answered at the Public Safety Answering Point (PSAP). When a landline call arrives at the PSAP, special computer software uses the telephone number to retrieve and display the location of the caller in near real-time upon arrival of the call.

The general public is increasingly using cell phones to call 9-1-1, including from indoor locations. These trends require new solutions for 9-1-1 centers and first responders to know the location of the caller, especially when the caller is unable to describe where he or she is. In February 2014, the FCC proposed new rules for improving 9-1-1 location accuracy for wireless calls made from both outdoor and indoor locations. The FCC encouraged public safety, industry, and other stakeholders to work collaboratively to develop alternative proposals for its consideration. In response to the growing need for 911 location accuracy including calls made from indoors, the Commission proposed the following near-term and longer-term location accuracy metrics:

- 50 meter horizontal axis accuracy for 67% of 911 indoor calls within 2 years of rule adoption, increasing to 80% at 5 years
- 3 meter vertical axis accuracy for 67% of 911 indoor calls within 2 years of rule adoption, increasing to 80% at 5 years

**Location Technologies Provide Information on First Responders.** Another potential benefit of leveraging wireless indoor location accuracy technology is to help provide location information on first responders, as well as location information to first responders. The ability to locate firefighters, law enforcement personnel, and emergency medical personnel when they respond to an incident indoors and need assistance will be invaluable.