# WIRELESS E9-1-1

## Calls that Matter, Connections that Save

The public safety industry needs reliable 9-1-1 products that deliver calls and caller positioning in critical situations. Comtech's 2G/3G Enhanced 9-1-1 (E9-1-1) and 4G/VoLTE9-1-1® solutions quickly and accurately route wireless 9-1-1 calls to public safety answering points (PSAPs) and deliver the location of wireless 9-1-1 callers. The solutions also support PSAP queries for precise location of a wireless 9-1-1 caller throughout the entire duration of the call.

Comtech's Wireless E9-1-1 solutions support emergency call routing for Long-Term Evolution (LTE), 2G/3G, and Code Division Multiple Access (CDMA) networks. They quickly determine the appropriate PSAP to handle each of the calls based on caller location, either returning routing instructions to a carrier or routing the calls to public safety on behalf of the carrier. The 2G/3G E9-1-1 and 4G/VoLTE9-1-1 solutions also perform precision positioning for each of the callers. Comtech's solutions support handset-based, network-based, and indoor location methods.

## Industry Compliance

Our Wireless E9-1-1 solutions comply with the Third Generation Partnership Project (3GPP), the Association of Public-Safety Communications Officials (APCO), Alliance for Telecommunications Industry Solutions (ATIS), National Emergency Number Association (NENA), and the latest applicable Federal Communications Commission (FCC) mandates, including Wireless Phases 1 and 2.

| Key Feature | Benefit |
|---|---|
| All Types of Wireless Networks | Support all types of wireless networks, including GSM/UMTS, CDMA, VoLTE, and indoor wireless enterprise small cells. |
| Flexible Call Routing | Route calls rapidly and accurately to appropriate PSAPs. Comtech may route calls on behalf of customers or return routing instructions to the carriers. |
| Precise Location | Provide PSAP precise location of the 9-1-1 callers through hosted or in-network PDE/SMLC/SAS/ESMLC application. |
| Seamless Handoff | Enable callers to roam between outdoor macro cells and indoor small cells and still maintain the call. |
| Civic & Geodetic Reporting for Enterprise Wireless Small Cells | Utilize civic and geodetic location of wireless small cells for location reporting. |
| Indoor WiFi Location | Integrate with enterprise network providers to utilize WiFi Access Points for indoor location. |
| Location Rebid | Enable PSAPs to query for an updated location. |
| 4G S8HR Roaming | Offer 9-1-1 service support for roaming partners. For country code 1, the service reports call back number; otherwise, the service reports 911+IMEI. |
| ALI Link™ | Provide nationwide connectivity between ALI Link customers and more than 200 ALI databases used for E9-1-1. Cellular carriers and other customers using the ALI Link service can access both regional and standalone ALI databases through a single contact point for both Phase I and Phase II wireless E9-1-1. |
| Reporting | Provide formatted reports for regulatory requirements or call records to assist carrier with own reporting. |

## About Comtech Safety & Security Technologies

Comtech Safety & Security Technologies (SST) has been demonstrating its commitment to public safety for over 20 years. We deliver reliable solutions for Next Generation 9-1-1 (NG9-1-1), wireless Enhanced 9-1-1 (E9-1-1), Text to 9-1-1, VoIP & VoWiFi E9-1-1 and related emerging technologies. Service Providers, states, and local jurisdictions nationwide rely on our portfolio of mission critical products and services.

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