



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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