



IP SELECTIVE ROUTER

Don't Get Left Behind

Many legacy Selective Router (SR) platforms are reaching an end-of-support and end-of-life stage. Comtech xSR, an Internet Protocol (IP)-based replacement for legacy SRs, provides both a solution to the support issue and a fundamental building block in the migration to full Next Generation 9-1-1 (NG9-1-1) capability.

Comtech xSR is an IP-based SR that delivers calls to legacy and NG9-1-1 public safety answering points (PSAPs). It routes calls based on geospatial data, assuring that all current and future call types—including text, multimedia, Voice over IP (VoIP), wireless, and landline—can be routed to the appropriate PSAP. Routing rules are defined in the solution, such as call delivery based upon the geography of an incoming call. Methods include traditional SR tables, Dialed Number Identification Service (DNIS), Geographic Information System (GIS), and a hybrid configuration of Automatic Location Identification (ALI) and SR tables. Highly redundant and scalable, Comtech xSR supports location by value (LbyV), location by reference (LbyR), traditional ALI lookup, and ALI steering.

Industry Compliance

Our xSR solution complies with the following standards:

- National Emergency Number Association (NENA): NENA i3
- Alliance for Telecommunications Industry Solutions (ATIS): JTD-110, IMSESINET, NGES, IMS911, ELOC, ESIF
- Internet Engineering Task Force (IETF): SPCORE, ECRIT, SIPREC, GEOPRIV

| Key Feature | Benefit |
|--|---|
| Active-Active Design | Offers the highest availability, with no manual interaction required. |
| Geographic Redundancy | Can be deployed in a geographically redundant manner, increasing availability. |
| CPE Interoperability | Successfully deployed with the most popular customer premise equipment (CPE) applications. |
| Message Session Relay Protocol (MSRP) Text to 9-1-1 Support | Enables native MSRP Text to 9-1-1; functions as a text-only Emergency Services IP Network (ESInet) to provide states with an aggregation and MSRP distribution point. |
| Proven NENA i3 Flexibility | Successfully deployed using other NENA i3-aligned components within the solution. |
| Multiple Deployment Models | Deployed as a dedicated, “in-network” solution or as a managed service. |
| End-to-End Functionality | Supports true end-to-end functionality, taking 9-1-1 traffic all the way from the carrier circuits to the PSAP demarcations. |
| Text to 9-1-1 Aggregation | Can be deployed as a text-only solution for those jurisdictions not ready to fully deploy NG9-1-1. |

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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