

SPARKGAP™ Alerting Messaging Telemetry Mobile Data

Wireless Data System

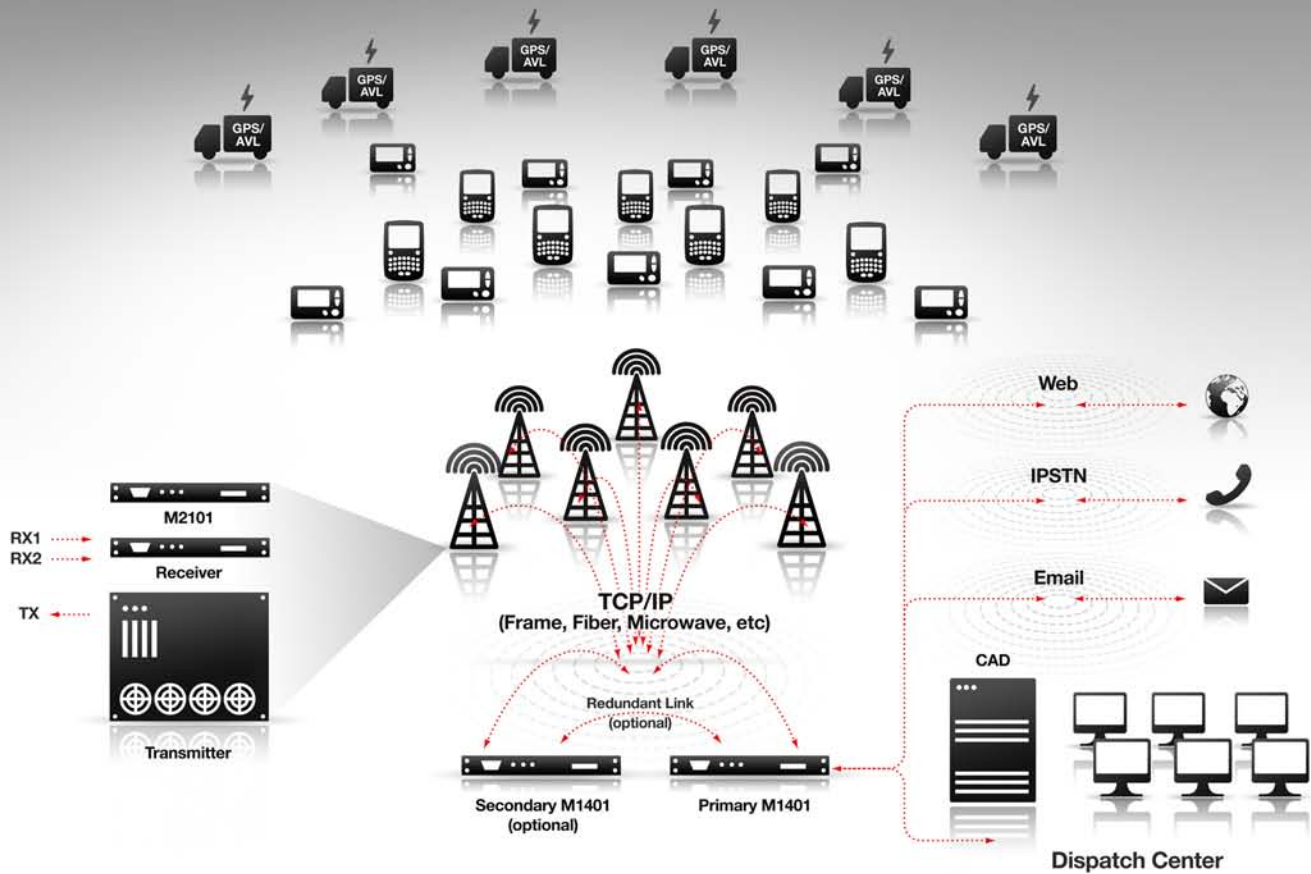


- ✔ **Group and Individual Alerting with Acknowledgement**
Deliver a group or individual message within 5 seconds. See who received the page, who read it, and how they reply, all in real time.
- ✔ **Encryption**
All message data is protected by 128-bit encryption and over-the-air rekeying (OTAR).
- ✔ **Mobile Data**
Law enforcement officers can use PDA's to connect wirelessly with municipal, state, and federal databases to run license checks, warrants, and other mobile applications.
- ✔ **SCADA, AVL, and Telemetry**
Small, inexpensive sending units can monitor vehicles, equipment, facilities, and other assets, uploading real-time location and status information on a 24/7 basis.
- ✔ **Wireless E-Mail**
Users can send and receive secure, wireless email.

The **SPARKGAP™** wireless data system provides wide-area two-way paging, mobile data, and wireless e-mail. A **SPARKGAP™** system can cover a single building or an entire state, supporting 5,000 to 50,000 mobile units.

A **SPARKGAP™** system can include one base station or hundreds of base stations. A single station covers a 7- 20 mile radius, and a system can coordinate multiple stations using simulcast or zoned arrangements to optimize coverage and capacity. A single channel pair can serve thousands of users, and multiple channels can be aggregated for additional capacity. **SPARKGAP™** supports fully interoperable roaming to neighboring agency systems and to nationwide carriers, and it handles worst-case peak conditions without channel overloading.

The SPARKGAP™ System



How it Works

- 1** Dispatcher sends an alert from CAD
- 2** Responders receive and read the message within seconds
- 3** SPARKGAP automatically informs the dispatcher as responders receive, read, and reply to the message.
- 4** Dispatch and incident command quickly know who has been alerted and who is responding.

A SPARKGAP™ system includes one M4101 network controller, one or more M2101 site controllers, base transmitters and receivers. Subscriber equipment includes pagers, MDT's, SCADA RTUs, and AVL mobile units. SPARKGAP™ connects directly to computer-aided dispatch (CAD) systems using TCP/IP, and it can connect to legacy systems using TNPP, TAP, and telephone interfaces. It provides rapid alerting and messaging with virtually unbreakable security, and operates with the lowest cost-per-user and cost-per-coverage-area of any wireless data solution available. For additional resilience, redundant hot standby configurations maintain network operation even under catastrophic circumstances, keeping responders connected when they're needed most.