

SmartPTT GPS Location

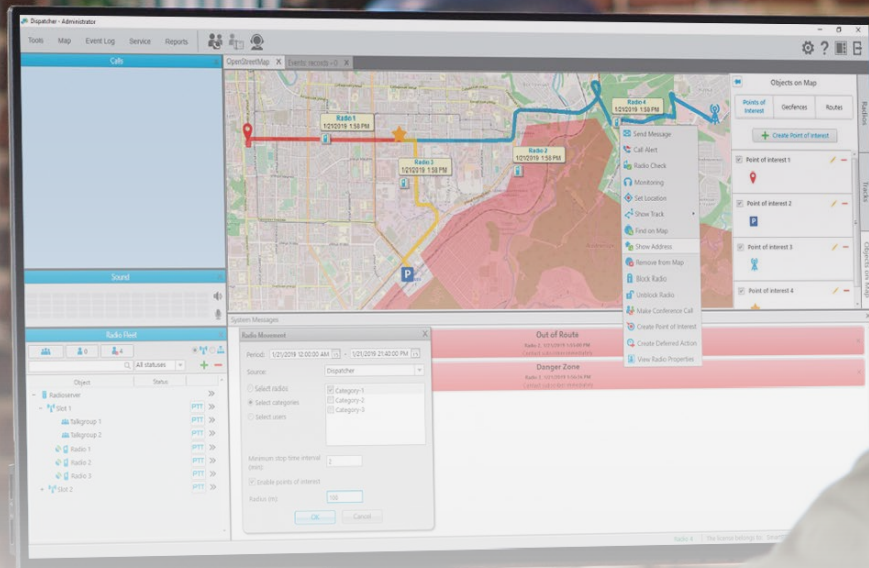
SmartPTT can use the GPS information sent by the Motorola MOTOTRBO radios to display the real-time location of radio users in the field. This location information can be used to respond quickly to a radio user in distress, assign the closest worker to a task, or ensure that routes are being followed and in a timely manner.

FUNCTIONALITY

- Real-Time user location
- Various location data retrieval options
- Online and offline map compatibility
- Enhanced location-based alerts
- Visualizing radio movements over time

Different ways to receive the GPS location

There are different ways to receive the GPS location from the MOTOTRBO radio. The radio can send its GPS coordinates at a pre-determined update interval (e.g. 30 seconds, 60 seconds, 120 seconds, etc.). Using Motorola's In-Band GPS protocol, the radio can send its GPS location each time the PTT or Emergency button is pressed. Dispatchers can manually request the radio's current location. GPS updates can also be sent based on events (e.g. distance interval, GPIO (general purpose input/output) pin change, etc.).



Enhanced Safety and Efficient Dispatching

SmartPTT supports a variety of online and offline maps. Online mapping support includes Google Maps*, OpenStreetMaps, and Baidu Maps*. Offline maps include raster, MapInfo, OpenStreetMaps, and vector maps. The dispatcher can create geo-fences and points of interest on the map. A geo-fence is an area such as a schoolyard, manufacturing site, hazardous work area, etc. Rules and alerts can be created, so if a radio registers its location as being in a hazardous work area, SmartPTT can send the radio a text message warning the radio user to use safety protocols or leave the area.

* Requires an API key from Google or Baidu.

The dispatcher can also be notified, so the dispatcher can check in with the user periodically while in the hazardous work area. Points of interest can highlight bus stops, delivery points, electric sub-stations, etc. This clarifies for dispatchers why a radio user is at that location. This is helpful when running reports, the report can display the point of interest name instead of just an address or GPS coordinates.

If a dispatcher or supervisor wants to review a radio's locations over a period of time, a track animation can be played to show that radio's movements during the selected time range.

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