

RevelocPlus

Enhanced radio intelligence



Originally created as a Remote Vehicle Locator, Reveloc has evolved into RevelocPlus - a smart platform that tracks assets via GPS-enabled radios and much more. It boosts compliance with historic log replays and multiple alert types, including speeding, exclusion zone entry, and confinement zone exit. Alerts reach radio operators through text, tones, or audio.

Main benefits

Reduced operational complexity - Live GPS tracking, dynamic zone alerts, and auto channel switching keep teams informed, safe, and connected without manual intervention.

Optimized asset performance - Advanced diagnostic tools and data extractors give deep insight into radio performance, signal coverage, and operator behavior for continuous improvement.

Improved safety - Blast and emergency zones trigger real-time voice or text alerts to only those affected - minimizing unnecessary stand-downs and improving site safety.



Enhanced radio intelligence



Locate

GPS enabled digital radios in a network



Define

geofenced areas for those radios



Monitor

radio movement



Execute

tasks based on radio movement



Alert

via instant text, tones or audio played to the radio



Integrate

with broader GIS / Analytical services

Blast zone warning

- Uses boundaries that are directly drawn or imported from CAD files as the basis of blast exclusion areas.
- Any GPS enabled radio that enters an active blast zone will be sent an alert via text or recorded voice message.
- Intrusion alerts can also be sent to blast superintendents to warn them when unauthorised vehicles are still in the blast zone before firing.
- Blast zones can be activated / deactivated directly from the field via a tablet and the browser based Reveloc client.



Auto channel change

- Opt in or always on this feature takes the worry out of being on the correct channel as a radio crosses from one geofenced zone to the next.
- RevelocPlus recognizes the movement over the geofence boundary.
- The relevant channel for that area is selected automatically from the folder list loaded into that radio and matches the area into which that radio has travelled.
- Allows the operator to focus on the road or track ahead with less interruptions.

Emergency zone management

- Emergency Zone Management is used where large sites have to manage how to stand down crews in case of a serious incident.
- Some sites covered by a radio network are so large that a single serious incident can stand down the entire workforce; often most of the workforce is far removed or unaffected by the incident.
- Using zone based management, larger sites can be broken into multiple regions that fall more along operational lines.
- Dispatchers can then activate one or more smaller zones depending on the nature of the emergency.
- RevelocPlus will then transmit the stand-down message only to radios recognized as being in the relevant zone(s), allowing those personnel to stand down but personnel in other zones to continue working.
- Dynamic emergency zones of a configurable radius can also be created when a radio operator presses their emergency button.

Network diagnosis tools

Air interface viewer

Allows data from an on-site survey conducted with a GPS enabled radio to be visualised via a thematically shaded map, coloured by signal strength. Node handover points and PTT presses / releases are also shown and neighbouring node information for a location can also be displayed at the click of a button.

Heat mapping

Option to colour live radio positions with their associated RSSI. Historic data can also be retrieved and plotted for the visible screen extent or a previously define geographic region.

Node coverage analysis

Generates an exportable (to KML) grid layer colour coded by the actual, average RSSI values for a given time / place. Grids can be produced on an individual node or whole of site basis and can also be filtered by asset class (e.g. vehicle fitted radios only).

RevelocPlus extension - RevBroadcast

- Provides a mechanism to export / stream position data from Reveloc to other systems.
- Set up scheduled tasks to run custom queries against the Reveloc database.
- Automate coverage report generation and disseminate via email.
- Generate reports of radios that are indicating lower signal strength than other radios in the same location.

RevelocPlus extension - RevWeatherWatch

- Live weather alerts are sent as pre-recorded audio transmissions over the network directly to the radios.
- RevelocPlus makes use of web based professional weather advisory services which issue warnings to clients by email or subscription based web service.
- RevelocPlus links the web-based alerts coming into the company's IT system directly to the digital radio network, relaying a sequenced series of audio messages directly to the radios.
- Can also be configured to control safety signage like lightning boards or beacons.



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