

roadmap™ position & safety tracking system

Enhanced Safety for Light Vehicles

The RoadMap system allows you to continuously monitor the current position and speed, access to restricted areas, exits from designated areas and roads, and proximity to hazardous objects of any piece of equipment at your mine site. It also provides an aerial view of the mine and its road network for better navigation. Extensive reporting and a playback utility help identify infractions and enforce policies.

The RoadMap application is the only true mining-specific position tracking system that is portable, affordable, and scalable.



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Mobile Application

Any equipment with a RoadMap system continuously tracks its position using GPS, comparing it in real time to a preconfigured road network. The basic configuration uses a PDA with internal GPS receiver, while an external GPS antenna is available for improved positioning quality.

The mobile system does not require any communication with the central system while it is in monitoring mode. Rule violations and traversed paths are stored locally on the PDA and later synchronized with the central computer through a Wi-Fi or cell phone hotspot.

Office Applications

The entire system is conveniently configured and managed using the central office application. You can edit the road network, define hazards and speed limits, and set rules for accessing controlled areas. You can also register vehicles and people to be monitored by the RoadMap system. All modifications are updated on each mobile computer once it connects with the office server.

The system comes with extensive web-based reports for all rule violations. Each violation records the driver, vehicle, location, time, and duration, and incidents can be post-analyzed using the playback utility.

Real-Time Operation

Real-time communications coverage provides instantaneous availability of rule violation alarms in the office, up-to-date position availability, emergency messages, and a chat utility.

Real-time features depend on the continuous coverage of Wi-Fi and/or cell phone infrastructure, and on the mobile computers installed in each vehicle. Modular provides a cost-sensitive option to turn ordinary PDAs into high-powered Wi-Fi devices.

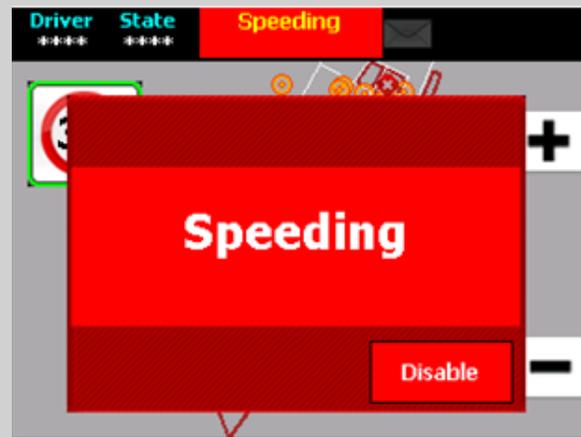
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Restrict access to dangerous areas



Control speeding with real-time alerts

With the RoadMap system, you can:

- Respond quickly in emergency situations
- Identify training opportunities
- Replay accident scenarios
- Enforce speed limits and parking restrictions
- Prevent unauthorized access
- Reduce unproductive time due to lost personnel
- Report safety violations objectively
- Minimize the accident risk from known hazards
- Integrate with third-party systems via open standards: OpenGIS for geographical data
- Scale the system with your needs
- Integrate with the DISPATCH system

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