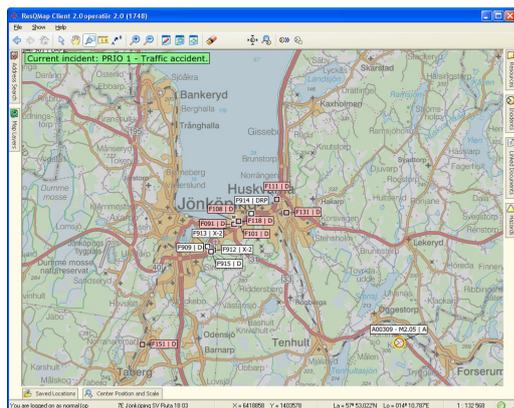


Carmenta ResQMap

Powerful GIS for public safety

ResQMap is a multi-user map display system that is designed to meet the needs of demanding rescue operations. ResQMap combines sophisticated features with a highly usable interface, in order to help operators locate callers and dispatch the right resources quickly and accurately.



Coordinating mission critical rescue operations, such as Emergency Dispatch and SAR – Search and Rescue – places special demands on the software tools that are used. The tools must provide the users with a comprehensive, up-to-the-second situation display, and response times must be very short.

ResQMap is a multi-user map display system that is designed to meet all requirements of demanding emergency response work. With ResQMap's built in features and ease of use, the operators can find incident locations and direct resources rapidly and precisely.

Map Display

ResQMap handles all types of GIS data, and the presentation is clear, concise and accurate. The size of the map window has been maximized by hiding all functions in easily accessible fold-out panels.

ResQMap can use any combination of raster images and vector data, and easily handles data in different coordinate systems. Updating the map display is very fast, even with large geographic databases.

ResQMap reads data from many sources, and GIS data can be stored in its original format (ESRI, MapInfo, AutoCAD etc.), thus avoiding time consuming data conversion.



The map display contains different layers of information, such as background, streets, buildings, fire hydrants and objects drawn by the users. The user profile determines what layers the user can view or edit.

Additional map features include:

- Configurable overview map window
- Flexible zoom and pan tools
- Distance measurement (US and Metric)
- Enhanced map display by using advanced filtering
- User defined drawing layers that can contain text, symbols, lines and areas
- Any type of document (blueprints, diagrams, photographs, web sites etc.) can be associated with a geographic location
- Real-time automatic label placement
- Background map dimming
- Hazards management – present and tie hazardous objects to the current case

Incident Locations

To find the location of an incident, ResQMap offers a number of support tools. The integrated address lookup is fast and includes wild card and approximate search options. The Coordinate Analysis function helps the user

to interpret coordinates reported by the caller. When an incident has been located, ResQMap immediately displays it with ID and status on all operator workstations.

Vehicle Tracking and Dispatch

All vehicles that are equipped with GPS and communication devices are instantly plotted on the map. The user can also find a specific vehicle by selecting it from a list. In this case the map will automatically zoom and pan to that vehicle's position and detailed information will be displayed in a separate panel.

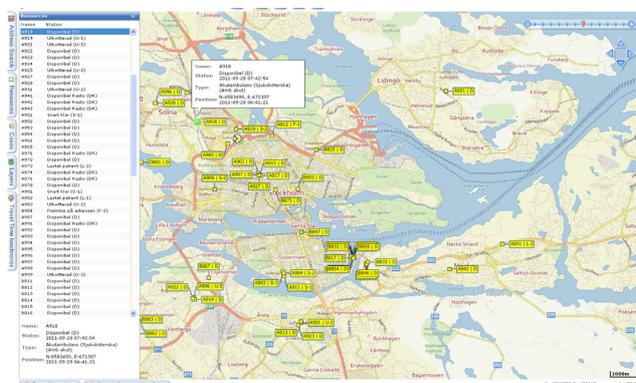
Users may dispatch any unit directly from the map by right-clicking the corresponding icon. ResQMap can automatically pan and zoom the map to display all units currently dispatched to a certain incident.

Regardless of where an accident occurs, ResQMap can show a list of the nearest vehicles sorted by shortest driving time. When clicking on a vehicle on the list the fastest route to the incident location is shown on the map.

The user can at any time track one or several vehicles in its own map windows

Webview

ResQMap WebView Client makes it possible to through an web browser, i.e. Internet Explorer, Chrome or Firefox, get almost the same view as an operator. The user can see location of cases and resources, lists of cases and resources with additional information. The WebView also has functionality for address search, bookmarks, information layers,etc. There is also an optional function for travel time isochrones and population coverage.



Communication and Integration

ResQMap has been designed with a flexible and open architecture so that it may easily be integrated with other systems, such as dispatch systems, external databases etc. The communication interfaces use standard XML with a well-documented structure.

Advanced Features

ResQMap functionality can be extended with a number of advanced features:

- Route optimization for real-time display of vehicles and route planning
- Preparedness functions that analyzes the level of preparedness, i.e. the ability to serve calls now and in the future
- Transportation planning & scheduling proposes resources and makes calculation and suggestions for relocation
- High availability setup which coordinates a server module that manages a central database and the distribution of information between two or more ResQMap Basic Servers
- ResQMap Mobile Locator Client makes it possible to receive, process and present information about the location of mobile phones
- The ResQMap API enables a developer to extend the functionality of ResQMap. By providing a number of extension points, such as custom panels and custom commands, the ResQMap Client can be augmented to fit the needs of a specific ResQMap installation
- Record/Playback functions for recording and replaying resource positions and status changes
- Calculations of coverage isochrones that supports the process of finding the best station locations

ResQMap Advantages

- Robust, reliable architecture
- Easy integration with other systems
- High performance presentation
- Can be customized to fulfill specific requirements

For further information, please contact Carmenta.