

## VMDS - Vehicle-Mounted Data System

Effective Operational Support and Data Communications in the Field

VMDS is an in-vehicle mobile information system that improves the occupational safety of firefighters and the operational efficiency of Fire and Rescue Services by providing front line fire crews direct access to critical location and risk information from the incident ground.

VMDS is the key component of the SAFEcommand™ mobile solution. Its active development has taken place in collaboration with Fire and Rescue Services clients since 1997. It is deployed in several countries and is used by most of the Fire and Rescue Services in the UK.



### Key features and benefits

Installed into fire appliances on a ruggedised tablet PC, the VMDS complete integrated system brings together operational information retrieval, mapping, data communications, status update, visual and audible routing and automatic vehicle location.

- Full range of datasets supporting key operational information requirements
- Accuracy of information is ensured by an automatic, controlled and regular distribution of information
- Intuitive and easy-to-use touch-screen interface and GIS-based system requiring minimal training
- Simple and reliable data communications tools ensure efficient use of communications bearers and help to reserve voice for when it is most necessary
- Priority message facilities provided for emergency situations
- Real-time automatic resources location to in-vehicle officers and the command & control room
- Configurable routing facilities

VMDS successfully combines different datasets to provide a picture of the 'real world' to front line personnel including all known risks and associated data.

With VMDS, front line crews can prepare in advance, communicate faster and execute operations safely.

## Key features

### GIS-based operational information system

- Provides access to a full range of operational information requirements and other operational needs.
- Provides all known risks and associated data including non-spatial data like brigades order to provide a complete picture to the user.
- Mapping facility with length and area measurement.
- Intuitive touch-screen interface: with a single touch, firefighters can switch between maps, premises information, etc...

### Real-time mobile data communications

- Provide mobilising, status and structured text messaging facilities.

### Routing facilities

- Optional MDT-based routing facilities allow the user to define start and end locations (often using current and incident locations), display the calculated route on the map and (via a further option) provide verbal routing directions.

### Automatic Vehicle Location System (AVLS)

- Dual benefit facility by providing the VMDS user with a map display view of their current location, and when used with real-time mobile data communications, provides the command & control system and operator with an accurate location of the VMDS which in turn can support dynamic mobilising.

## SAFEcommand mobile products

VMDS can be combined with the SAFEcommand™ Mobile Data Communications Gateway and the Automatic Information Update Service to seamlessly link both command & control and allow the data gathered within the back office Central Management System (CMS) to be automatically deployed to VMDS users in the field.



### Full range of critical information directly accessible from the vehicle

- > Information can be stored and retrieved for the operational area which can include neighbouring mutual aid areas
- > Mapping for the area of operation at a range of scales
- > Risk and hazard information related to premises and other locations
- > Generic information related to general hazards such as guides to safe systems of working, first aid information
- > Hydrants and water supplies information
- > Access points to motorways, railway lines and rivers / canals
- > Utility asset routes and locations including, oil, water, gas, electricity
- > Vehicle and aeroplane specifications and details
- > Chemdata database: as a registered developer with Chemdata suppliers we receive pre-releases of new versions to support product compatibility
- > Information about the community (e.g. locations of people at risk)

SAFEcommand™ is an Infoterra product suite.

Infoterra is dedicated to providing expertise across the entire geospatial spectrum, from data acquisition to hosting and delivery. Infoterra - All the geo-information you need.

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