

DIVITECH and NAVTEQ provide the Arma dei Carabinieri with an emergency management system



The Arma dei Carabinieri uses a Divitech tracking system based on an in-car GPS navigation solution which incorporates NAVTEQ digital map data for positioning and navigation.

Challenge

The King of Sardinia, Vittorio Emanuel I, established the ancient Corps of the Royal Carabinieri in Turin by Royal Warrant on 13 July 1814. It was given the dual function of national defense and policing, with special powers and duties.

The Arma dei Carabinieri includes national and local patrol units. They need to be able to exchange emergency information quickly and precisely to optimise allocation of their human resources.

Solution

The Arma dei Carabinieri uses a Divitech tracking system that is based on an in-car GPS navigation solution which incorporates NAVTEQ digital map data for positioning and navigation. It tracks individual patrol units both nationally (from national control centers) and locally (from local operational centers) enabling the exchange of emergency information quickly and precisely.

Each in-car device is controlled by a central navigation system and offers advanced communication features such as mission management and status.

The system includes an in-car device on the dashboard of the patrol vehicle that acts as a touch-screen monitor for all the telematics equipment on board. Precise location details are generated by processing signals from GPS, an odometer and a gyroscope. If there is a weak GPS signal, these are still able to pinpoint the car's position. The monitor can easily be detached from the dashboard and used as a palmtop for off-board duties.

There's also a control room unit that monitors the position of vehicles virtually in real time as each on-board system continuously relays its positioning data. Once the dispatcher has selected the correct patrol vehicle, details are sent electronically

After accepting the mission the system then calculates the quickest way to reach the destination, guiding the driver with both visual and voice commands.

THE CHALLENGE

- Efficient exchange of information between national and local patrol units to face emergency situations.
- Optimisation of the human resource allocation.

THE SOLUTION

- Divitech tracking solution powered by NAVTEQ maps and based on in-car GPS navigation systems.
- This sophisticated tool allows tracking and communication to enable control centers to send details of emergency situations to the right patrol unit, in the right area at the right time.
- Each in-car device is controlled by a central navigation system and offers advanced communication features such as mission management and status

THE BENEFITS

- Improve reaction of Carabinieri patrol units.
- Gives the operator the opportunity to make the correct decision at the right moment.
- Makes the back office more efficient.

Benefits

This sophisticated tool allows tracking and communication to enable control centers to send details of emergency situations to the right patrol unit, in the right area, at the right time.

Irrespective of where the patrol vehicle is, the location seen 'on screen' is mirrored exactly in the control rooms. This gives each operator a complete view of where the fleet is at any given time.

The operator is also given other information unique to each patrol, such as mission status, direction, and type of equipment on board.

All this information enables the operator to choose the best available vehicle to dispatch on a mission.

The position of the nearest colleagues is also displayed on the monitor, allowing the operator to coordinate his activities with other patrols.

The same NAVTEQ map data is incorporated in both the on-board systems and the control rooms, ensuring the location data passed between them is identical.

About DIVITECH

DIVITECH is the leading Italian company in the field of radio localisation and control rooms for police, intelligent agencies and emergency services in general. The company was founded in 1997 as spin-off of the Telematic Department of SEPA (Fiat Group) and since then it has installed more than 10,000 in-car localisation and telemetry systems and 300 control rooms. Customers include the Carabinieri Army, Italian Police, Amsterdam Police, Highway Police, Judiciary Police, Environmental Police, Regional ambulances, the Italian Presidents of the Republic and the Bank of Italy. Due to its experience, it has been chosen during the last XXth Winter Olympic Games to monitor athletes' transportation. For more information, visit www.divitech.it or email fbelmonte@divitech.it

About NAVTEQ

NAVTEQ is a leading provider of comprehensive digital map information for automotive navigation systems, mobile navigation devices, Internet-based mapping applications, and government and business solutions. NAVTEQ creates the digital maps and map content that power navigation and location-based services solutions around the world. The Chicago-based company was founded in 1985 and has over than 3,100 employees located in 167 offices and in 31 countries.

About Divitech

Divitech S.p.A. is an Italian company that develops produces and markets customized solutions for the tracking and navigation of, and communication with, fleets of vehicles and/or people.

A spin-off from the Fiat group, the company was founded in 1997. Since then, it has been developing solutions for many high profile customers in both the public sector (Carabinieri, Police, Railway Police, Highway Patrol, Ambulance Service) and the private sector (transport companies, medium and large sized fleets).

With revenue of €6 million in 2006, Divitech employs around 40 people in Treviso (Administrative HQ), Turin (Operations HQ) and Rome (Sales & marketing).



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