



PARIS CIVIL PROTECTION CHOOSES MOTOTRBO™

DELIVERING OPTIMAL RADIO COVERAGE AND INCREASED FUNCTIONALITY TO MEET GROWING NEEDS



PARIS CIVIL PROTECTION

Paris Civil Protection (PCP) is part of the FNPC, the National Federation of Civil Protection. The FNPC is a not-for-profit French association of emergency volunteers who set up first aid stations at large events, train the public in first aid and raise awareness of public safety issues, for example. In Paris the volunteers also work in close collaboration with the emergency services.

When it comes to public safety, reliable communications are vital. This is why PCP has decided to update its former analogue radio network to the latest digital technology. The project has been codenamed 'REMUS'. PCP is free to choose its own radio communications system. Following a detailed study by DIGI.COM, PCP decided on MOTOTRBO. Using hardware supplied by DataHertz, PCP deployed a multi-channel MOTOTRBO network currently composing 3 DR 3000 repeaters and over 150 MOTOTRBO radios.

The new system is delivering numerous key benefits for PCP, including reliable coverage, greater capacity, increased functionality and exceptional sound quality. User feedback has been excellent.

CUSTOMER PROFILE

Company
Paris Civil Protection

Industry
Public Safety

Partner
DataHertz

Motorola Solutions Products

- 95+ DP4601 Portable Two-Way Radios
- 10+ SL4000 Portable Two-Way Radios
- 50+ DM4601 Mobile Two-Way Radios
- 3+ DR 3000 Repeaters

Applications

- Mobile voice and data communications for PCP emergency workers across Paris
- Transmission of timed and dated status codes
- GPS
- Automatic recording of all communications

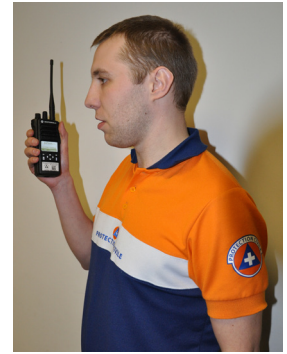
CASE STUDY

PARIS CIVIL PROTECTION: MOTOTRBO

“With more than 500 volunteers and staff, 68 vehicles and 17 boats, we have grown significantly since our formation in 1997. We conduct numerous operations every week and provide essential support to both the ambulance service and the fire brigade. Clear communications are obviously essential during call-outs and, to meet the growing needs of our teams, we decided to upgrade from our analogue network to a multi-channel digital network.

We chose MOTOTRBO because of its proven track record in the public safety domain. And we have not been disappointed. Users love the new system. The improved coverage, the added channel capacity and increased functionality make their jobs easier. The system has exceeded our expectations.”

Yann Di-Giorgio, Transmissions and IT systems consultant, Paris Civil Protection



CHALLENGE

PCP first installed its own autonomous analogue radio communications network in 2000. However, the network did not always offer reliable coverage in the field and voice communications were unclear. Moreover PCP's operations had evolved and grown to such an extent that it needed added functionality and capacity. Therefore, in 2012, PCP's management commissioned a technical report by DIGI.COM.

Subsequent to the report's findings, PCP set up an internal project team to manage 'REMUS' and its sister project 'ROMULUS', relating to PCP's mobile IT systems.

SOLUTION

PCP chose to deploy MOTOTRBO equipment due to its excellent audio performance and its proven track record in the public safety field. Other deciding factors included the integrated GPS and Bluetooth and its scalability, including the potential development of the solution into Trunk multi-sites.

It installed two DR 3000 repeaters in the Maine-Montparnasse tower, a 210-metre office skyscraper located in the Montparnasse area of Paris. These two repeaters are linked to four Kathrein 90° panel antennas positioned at the four corners of the tower. A third DR 3000 repeater is located in the VECTRA 75 vehicle, used as the mobile command post, and one further repeater is set up as stand-alone tactical mobile unit in a hardened fly-case. PCP has kept the CALEARO radome antennas it used previously for the mobile stations.

PCP equipped its operational teams with 95 DP4601 portable two-way radios with GPS and Bluetooth. It also deployed 10 SL4000 portable two-way radios with Bluetooth for the management team. More than 50 DM4601 mobile two-way radios with GPS and Bluetooth were installed across the fleet of vehicles.

PCP has moved from having one available channel for radio transmissions to four exclusive and dedicated channels, comprising two infrastructure channels and two tactical channels, which are allocated in emergencies. The network is now not only used for voice communications, but also for SMS, GPS and the transmission of timed and dated status updates. These, together with automatic recording of all communications, ensure improved traceability. PCP can also listen in to messages again using TRBOnet™ software, in case of any issues or legal disputes.

The digital system allows remote workers to connect into the digital network via a laptop or desktop using TRBOnet software. Furthermore tactical teams will soon be equipped with ET1 touch tablets from Motorola Solutions, to electronically record incident sheets before transmitting the information via the radios via Bluetooth to the central server, also based in the Maine-Montparnasse tower. From here the information can be distributed to the ambulance service or fire brigade, if necessary.

BUSINESS BENEFITS

This project is just a small part of a complex modernisation programme for PCP, who is already benefiting enormously from more coverage, improved sound quality and the added functionality and capacity, as well as the ability to transfer data quickly to other organisations.

The network itself, with its minimal infrastructure, is very cost-effective, scalable, and easy to operate and manage internally. Team members on the ground react more quickly to situations, knowing they can depend on reliable radio coverage and accurate GPS. They save time on reporting and paperwork and concentrate on the job in hand: the safety of the public.

Key Benefits

- Robust, scalable network
- Simple, cost-effective network to install and manage
- Increased capacity from 1 to 4 channels
- Significantly improved audio quality, even in encrypted mode
- Added functionality, including SMS and reliable integrated GPS
- Improved traceability

For more information on how MOTOTRBO can help you improve team communications and respond to crisis situations please visit us on the web at www.motorolasolutions.com/mototrbo or contact us at: www.motorolasolutions.com/contactus

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