



SPANISH AUTOMOTIVE TESTING FACILITY DEPLOYS MOTOTRBO™ RADIOS AND AVIGILON™ CAMERAS

FOR OPTIMAL COMMUNICATIONS, INCREASED SAFETY AND OPERATIONAL EFFICIENCY



CHALLENGE

This large supplier to the automotive industry wanted to install high-performance radio communications at its recently opened test circuit in Spain. It approached long-term Motorola Solutions partner Tecnitrán Telecomunicaciones and, following a series of meetings, Tecnitrán proposed a MOTOTRBO system comprising SLR 5500 Repeaters and a mixture of DP4400e and DP4401e portable two-way radios. However, having assessed its wider requirements, Tecnitrán also presented the Motorola Solutions Avigilon video security range, and this technology is now being progressively deployed at the circuit to ensure compliance with the facility's stringent safety requirements.

CUSTOMER PROFILE

Organisations:

Spanish automotive test track

Partner:

Tecnitrán Telecomunicaciones

Industry:

Automotive

Location:

Spain

Motorola Solutions Products:

MOTOTRBO communications system comprising:

- SLR 5500 Repeaters
- DP4400e Portable Two-Way Radios
- DP4401e Portable Two-Way Radios
- DP4801e Portable Two-Way Radios

“Originally, the testing facility approached us, as they needed a radio communications system for their new circuit. And they were very happy to deploy MOTOTRBO technology, as they already knew and trusted the brand. However, we also then presented the Motorola Solutions Avigilon video security range, which they have since installed, and now they are looking at further integrating their two systems on the Safety Reimagined platform. This deployment has really developed and perfectly showcases the high-performance total safety offering Motorola Solutions can deliver.”

Javier Romero, Managing Director, Tecnitrán Telecomunicaciones



SOLUTION

First, Tecnitrán supplied and installed the radio communications system, establishing talk groups and configuring the radios. General users are equipped with DP4400e radios; however, drivers, maintenance and emergency teams are equipped with DP4401e radios, so the controllers can use the integrated GPS to locate and deploy these users most efficiently, via their dispatch software. This same application is also used to record all calls, in case of any incidents. Voice and data communications run over the four channels provided by the repeaters: one each for operations, maintenance and emergencies plus a data channel. The facility is increasing the number of radios and has recently deployed DP4801e radios for security personnel responding to alarms raised on the video security system; it selected these models as they have a screen for receiving alarm-related messaging from the control centre, which can either be automated or entered manually. Indeed, the scalability of the MOTOTRBO system will allow the track to easily grow its radio system, in terms of users and channels, as the use of the circuit continues to increase.

Moreover, the circuit is currently expanding its video security system, having just added further Avigilon H5SL cameras. The high-resolution cameras, which also include the H4 Pro, the H4 Multisensor and the H5A models, are currently installed and positioned to monitor the tracks, to check they are clear prior to testing. However, moving forward, more cameras may be deployed at the circuit entrance and along the centre's perimeter, to further enhance site security. The cameras feature next-generation video analytics technology. Therefore, for example, should

a flock of birds, a stray animal or an unauthorised person wander onto the track, this will trigger an Unusual Motion Detection (UMD) alarm and the dispatch team can alert the nearest security guard to investigate. Other alarms have been set up with regard to restricted areas. All footage is stored on the Network Video Recorders (NVRs), in case an incident needs to be investigated retrospectively. The NVRs have been assigned a failover connection to a backup server so, should the connection to the primary server fail for any reason, recording will not be interrupted.

BENEFIT

Javier Romero summarises: “This deployment ensures the track maintains a high level of safety and security. User feedback has been excellent. The communications are clear and instantaneous, there's always a channel free and the talk groups have been set up for easier, relevant group calls. As for the video security, image quality is outstanding and, with the intuitive software and alarms, operators can easily see if there's an incident that needs to be managed.”

The testing facility is planning to develop the system further, adding more repeaters, radios and cameras. In the meantime, it is currently looking at how it could benefit from the Motorola Solutions end-to-end enterprise technology ecosystem, Safety Reimagined. This would enable it to unify its voice, data, video and analytics onto one integrated platform, for example sending automatic alert messages from the video system to radio users when an unexpected incident arises. The close connectivity within the Safety Reimagined platform allows the technologies to work together and, ultimately, further enhance safety and operational efficiency at the circuit.

Motorola Solutions Products:

Motorola Solutions Video Security system comprising:

- Range of Avigilon cameras including H4 Pro, H4 Multisensor, H5SL and H5A models
- Avigilon Network Video Recorders (NVR4)
- Avigilon Control Center (ACC™) Video Management Software
- Avigilon Unusual Motion Detection (UMD)

Benefits:

- Total solution from one supplier with the option of unifying voice, data, video and analytics onto one integrated Safety Reimagined platform to allow an even greater level of collaboration and efficiency
- Fast, scalable deployment, bespoke to customer requirements, with further cameras and radios being deployed on an ongoing basis
- Best-in-class hardware that provides reliable, robust communications and video footage across the circuit, so ensuring the facility's stringent safety regulations are being met and exceeded