



Fire-Fighting in France Goes High-Tech with Video Surveillance Enabled by Motorola's wi4 Fixed Solutions.



Overview: Fire and Rescue Authority in France

The Service Départemental d'Incendie et Secours (SDIS), translated literally as the departmental service of fire and help, is the name given to the fire and rescue authority in France. The mission of the SDIS is not only to put out fires but also to detect and stop fires in their early stages of development – before they do costly damage.

The challenge: develop a real-time video surveillance and monitoring system to detect forest fires in their early stages.

The SDIS is chartered with protecting the Landes area of France which is located in the southwest corner of the country. SDIS's most significant challenge has been the prevention and management of the region's growing problem of devastating forest fires. These fires were causing damage to the natural beauty of the area and had the potential to negatively affect the region's wealth of natural resources and impact tourism.

The Landes region is known across France for its beautiful coastline and vast pine forests that were planted to stabilize the sand dunes. Its wealth is heavily dependent on these pine forests, as one of its big revenue sources is from sales of pinewood and its derivatives. Another significant portion of the region's revenue comes from tourism in its coastal region, which could also be negatively affected by fire damage within the forests. The SDIS in Landes needed a system that would help them detect and locate forest fires in their early stages before these fires caused costly damage.

The solution: a high-speed wireless broadband video surveillance system that detects images of potential fires and transmits them to the SDIS emergency control center in real-time.

To support the image quality required for such a system, wireless links supporting a minimum of 2 Mbps data speed between towers were needed. The SDIS also needed to meet certain legal requirements with regard to the security of its data transmission and video surveillance. Motorola's wi4 Fixed Point-to-Point equipment provided the perfect solution.

A Motorola wi4 fixed video surveillance solution was installed on 19 towers located throughout the region, all of which were connected using links that support speeds of 21.5Mbps, 43Mbps and 150 Mbps. The weather-resistant equipment securely transmits alarms and images of a fire in its early stages via a permanent 40 Mbps link to the SDIS control center. Individuals in the control

CUSTOMER PROFILE

Organization

Service Départemental d'Incendie et Secours in the Landes region of France

Industry

Fire and Rescue Authority in France

MOTOWi4 solution

- wi4 Fixed Point-to-Point equipment
- Links between towers with speeds up to 150 Mbps

Solution features

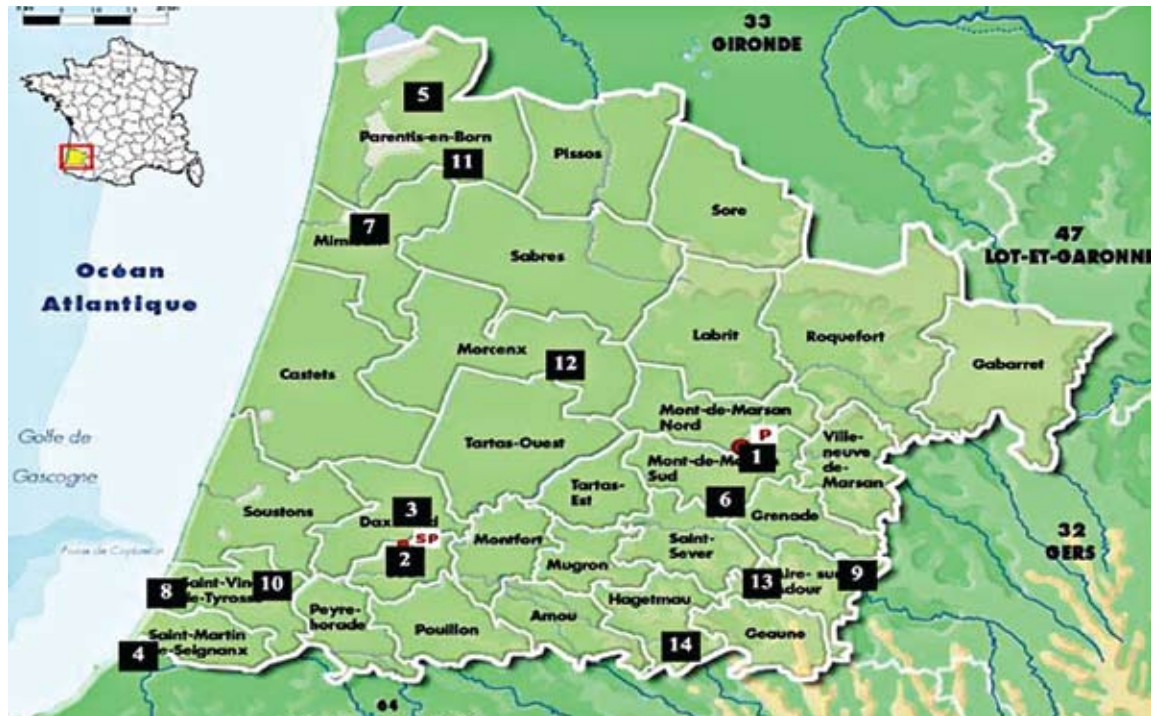
- High-speed wireless broadband supporting real-time video surveillance
- Meets legal requirements for secure data transmissions and video surveillance
- Captures and transmits 400 panoramic images each minute

Services provided

- Video surveillance
- Central monitoring

Benefits to end customer

- Improved safety and security
- Reduced costs from fires
- Preservation of revenue stream from pine forests
- Creation of new revenue stream from fines



“Motorola’s wi4 Fixed equipment provides the ideal platform to support video surveillance. Its ability to support true high-speed data transmissions not only supports the detection of fires while sitting in the central office located many miles away, it also enables the transmission of images with amazing detail and quality to that office so that the extent of the fire danger is known immediately.”

— *Stephane Amalberti - Sabatier*

center then validate the emergency and deploy the resources necessary to eliminate the fire. The entire system – including all 19 cameras – can be easily managed and maintained from the control center.

The video surveillance system captures and transmits 400 panoramic images each minute and automatically recognizes smoke within just three minutes after the start of a fire. To achieve this, the SDIS worked with systems integrator and Motorola distributor Sabatier to create special software that would distinguish changes in the images recorded. The software was designed specifically to quickly detect the presence of smoke.

The benefits: enhanced safety and security, no costly fire damage in this beautiful natural area and unexpected creation of a new revenue stream.

Motorola’s wi4 Fixed Point-to-Point video surveillance

solution currently detects and reports approximately 90 fires per week. Thanks to the early detection system, SDIS officials are able to put out these fires before they cause any damage.

In fact, many of the fires detected are from campfires, which are illegal in this region because they often lead to larger, uncontrollable fires. When these fires are detected by the video surveillance system, officials are quickly dispatched to locate the perpetrators and put out the illegal blazes. For every illegal fire that they find, officials are authorized to collect a fine of as high as 90 Euros.

This means the video surveillance system now brings in additional revenues of as high as 9,000 Euros per week. This is an unexpected but welcomed return on investment provided by the Motorola wi4 Fixed Point-to-Point video surveillance solution.



MOTOROLA

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