

SECORA



Benefits

- Much increased capacity for voice and data communication
- Improved coverage in comparison with analogue radio system
- Far lower operating cost

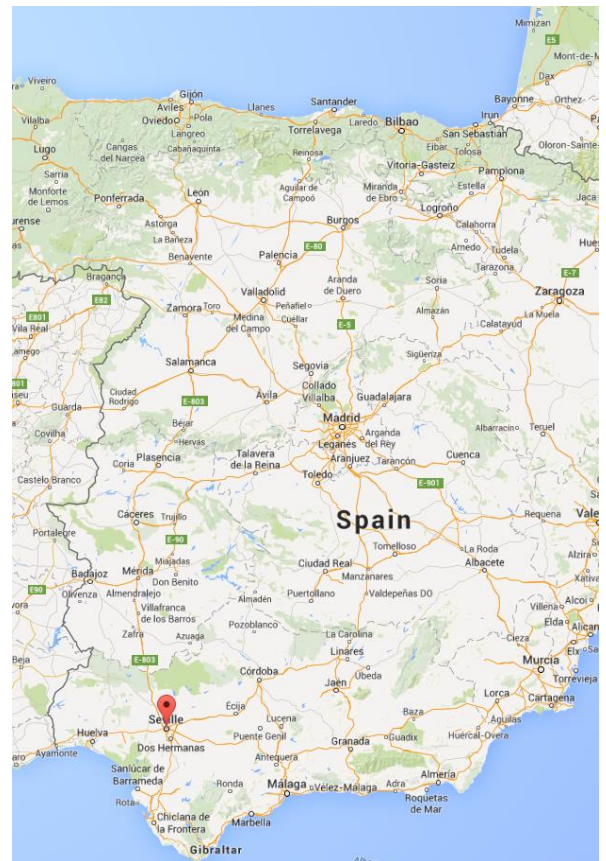


Client overview



Sevilla municipality in Spain has seven different municipal organisations and each used to have an analogue network that got congested. The municipality also had the need to implement new services and increase the network performance. It therefore wanted to create a single network to have a standardized solution that allowed for interconnection with the telephone system and encryption.

A project was created to implement TETRA with seven network user organisations: Red Corporativa de Radio comunicaciones or SECORA for short.



SECORA



Project challenge

All seven municipal organisations had own reasons for implementing a TETRA network.

- The Water Supply & Sanitation wanted to increase their SCADA and telemetry network;
- The Bus company with 400 buses wanted to implement a system exploitation support system;
- Public Cleaning wanted radio to coordinate various tasks;
- The local Police wanted to integrate a Command and Control System;
- The Fire Brigade & Rescue needed to be able to communicate with the Ambulance services.

Also Civil Protection and the Sports institute has been added to the new TETRA trunking network. In total 32 repeater stations of the former analogue system were decommissioned.




Solution

The new TetraNode TETRA network was built with a geo-redundant TetraNode exchange, a redundant transmission network and 14 Base Station Systems with 38 TETRA carriers, and a rapid deployment transportable Base Station System. Various telephone interfaces with all organizations telephone systems.

Each department manages its own radio fleet, six departments have their own Line

Dispatch Station Chameleon with a location tracking systems. The TETRA network integrates an integrated Bus Identification and Control System and a command and control centre for the police.

The network supports further voice data Logging of all network communications and for the buses the bus stops have information panels that provide information on the time table.