

Hytera Establishes Commercial DMR Trunking Network for Croatia

User

Digital Signals and Networks (OIV)

Market segment

Commercial

Project time

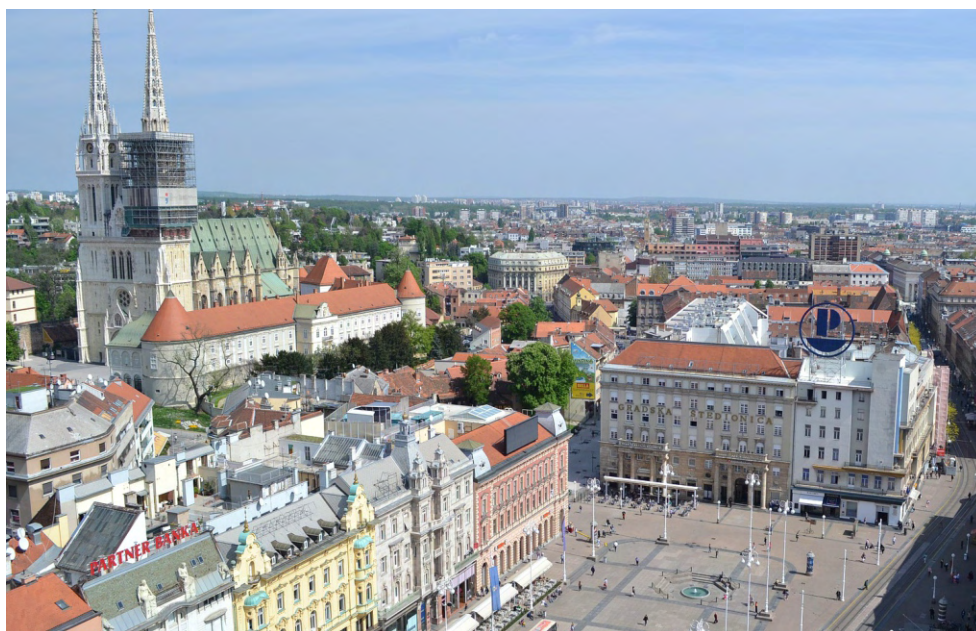
2019

Products

11 DS-6210

15 DS-6210

28 DS-6210



Introduction >>

Hytera Mobilfunk GmbH joined forces with its long-established partner Markoja, a Croatian full-service provider of communication solutions, to put in place the nationwide DMR trunked radio system Cronect in Croatia, which began operations in summer 2017. The DMR Tier III trunked radio system currently incorporates 54 base stations with two and four carriers and is being expanded as. As a result, Hytera is currently providing the largest public DMR network in Europe.

Background >>

The Cronect network is operated by Transmitters and Communications Ltd. (OIV), a Croatian company that has been actively serving the broadcasting business for over 90 years. From its headquarters in Zagreb, OIV offers radio and television solutions and infrastructure, as well as media services and telecommunications transmission capacity services and mobile radio services. Cronect can be used for mission-critical communications, which is of particular benefit to customers in the field of security and rescue services, local public bodies, industrial and commercial businesses, agriculturalists, public transport companies and utility companies.



DS-6210





Hytera Solutions >>

- High-performance, nationwide DMR trunked radio system
- Fully IP-based system architecture
- Reliable and failsafe operation thanks to redundant dimensioning
- Convenient network operation thanks to failsafe and user-friendly network management system
- Redundant IP backbone

The system has four switching nodes (MSO) with regional responsibility, which are all set up to be redundant. This ensures maximum reliability and failsafe operation. OIV has additionally strengthened the systems overall robustness by taking advantage of OIV's own multiplatform communication network and advanced infrastructure solutions. A fully scalable dispatcher system, with 20 clients at present, is available to control communications. Further to this, Cronect has a scalable voice recording system.

Hytera's DMR trunked radio system for Croatia also stands out from the crowd by virtue of its flexibility. Currently Cronect network is used by different customers from various sectors such as Public Safety, Emergency and SAR teams, utility companies, public services, transport companies, etc.

Regarding the mission-critical users, several fire brigades in different counties currently use Cronect across Croatia. Cronect is also part of the Integral Forest Fire Video Monitoring and Surveillance System (OIV Fire Detect AI) implemented in coastal part of Croatia for early detection and prediction of propagation of forest fires.

OIV's application partners are currently working on individual solutions, including a telemetric application for industry. Furthermore, vehicles can be located by means of the AVL (Automatic Vehicle Location) system, which is based on GPS. Thanks to inter-regional roaming, seamless coverage is guaranteed and the available features can be used across the network.

Result >>

The high-performance DS-6210 DMR trunked radio system guarantees secure communication, exceptional radio coverage and the best voice transmission quality at all times. Together with Markoja, Hytera Mobilfunk GmbH has taken over the entire planning of the radio network (radio coverage and frequency planning) and has streamlined the network infrastructure to meet OIV's requirements. This involved overcoming some difficult terrain, including numerous mountains and high altitudes. Consequently, a cumulative range forecast was compiled for the base stations at every stage of implementation.



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