## 

## Case study

# Dispatching control system for power distribution

Branch: Power Engineering

Customer: www.cez.cz

Country: Czech Republic

Project Target: Integrating voice networks and ensuring dispatch operations in emergencies

**Solution:** KONOS Dispatch solution

**Result:** The dispatching management of a region is divided into regional centers. Each member of the team can communicate with a fixed, mobile or radio network with dispatchers and other call parties. Each workstation provides voice communication with mobile terminals, with management terminals, with the company's telephone network, and radio network terminals.

### **CUSTOMER: ČEZ DISTRIBUCE**

ČEZ Distribuce, joint-stock company, holds a power distribution license and, in the sense of the Energy Act, is the operator of the distribution system. The company operates in the regions of Plzeňský, Karlovarský, Ústecký, Středočeský, Liberecký, Královéhradecký, Pardubický, Olomoucký, Moravskoslezský and partially in the Zlínský and Vysočina regions. The company's main mission is to distribute electricity to individuals and legal entities and to constantly increase the quality and reliability of the delivery to all customers.



#### **PROBLEM DESCRIPTION**

ČEZ Distribuce operates a distribution system and has the task of ensuring a reliable distribution of electricity. In case of extraordinary events, such as strong wind, frost or floods, workers need to restore electricity supply as quickly as possible. They need effective communication with coverage across the Czech Republic. However, mobile operators are also affected by power outages, so a reliable radio network has to be used to communicate and to ensure effective connection of dispatchers with field workers with the potential to strengthen the most affected areas.

#### **SOLUTION**

The dispatcher part of the system consists of workplace dispatchers concentrated in dispatch centers and support systems located in data centers. Dispatchers use the KONOS-DOT dispatching terminals for radio and other voice communications.

Radio access to fixed workplaces and working groups is secured by a nationwide digital radio system. The radio system includes handportable and vehicle radio stations, base stations, data radios and converters. The radio system is connected to the dispatching system using Radio Gateway components, which provide conversion from radio services to the IP environment. Dispatchers have areas divided corresponding to geographical distribution and voltage levels of the distribution system. The system enables sharing of dispatching areas, their effective management and integration with the emergency system and other customer support systems.

Thus, the dispatcher has one terminal for all communication, and in case of difficult situations, the dispatcher can concentrate exclusively on problem solving through efficient communication scenarios.

"In co-operation with ČEZ Distribuce, we managed to adapt our dispatching solution to the exact needs of dispatchers and ensure reliable communication even in crisis situations."

Pavel Mašát, project manager of TTC MARCONI.



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