# Unify OpenScape 4000

## TeleSvyaz has successfully implemented a project to create a radio communications system at the Chirkeyskaya HPP, including the creation of a technological network of radio communications based on DECT standard

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The Chirkeyskaya HPP is a hydroelectric power plant on the Sulak River near the village of Dubki, in Kazbekovsky district of Dagestan, Russia. It is the most powerful hydroelectric power plant in the North Caucasus. It has the second highest dam in Russia and the highest arched dam in the country. It is part of the Sulak cascade of hydropower plants, being its upper stage regulating the entire cascade. The Chirkeyskaya HPP is part of the Dagestan branch of RusHydro PJSC. The first unit was put into operation in 1974.

There was no radio communication system at the Chirkeyskaya HPP. The Concrete walls of the technological premises and ceilings hindered the operation of radio stations inside the premises, which created difficulties for the HPP's maintenance and repair personnel.

The main objective of the project was to create a wireless communication system in the production facilities and technological sites of the Chirkeyskaya HPP. The radio communication system was to cover production, administrative and auxiliary premises of the station, switchgear (Open Switchgear), and adjoining territories and to increase accessibility of operational service personnel, administration, security service, repair crews with required quality and reliability of wireless communication.

To create a radio communication system, Unify Communications solutions were chosen, which showed maximum compliance with the customer's needs and meet the challenges of further growth and development of the organization. TeleSvyaz, one of the leading partners of Unify in Russia, was chosen as the contractor of the project.

The Atos Unify OpenScape 4000 system is used to provide interstation voice communication. Operative and dispatching communication of the station shift supervisor (hereinafter referred to as "NCS") with operational and production services of Chirkeyskaya HPP is carried out with the help of the switch based on OpenScape 4000 by means of IP branch.

OpenScape 4000 is an innovative, modern real-time IP system that combines the advantages of IP communication with the functions of channel switching communication systems, providing a higher level of reliability than solutions based solely on TDM technology. The creation of the wireless segment of the telephone network required the installation of 39 DECT base stations. As a result, the organized coverage provided reliable communication throughout the Chirkeyskaya HPP.

During the project implementation TeleSvyaz specialists team trained the customer's personnel. The responsible employees of the technical service were fully acquainted with the peculiarities of the system configuration and maintenance. During the project implementation, Telesvyaz specialists considered the wishes of the Customer and assisted the organization's employees in setting up the necessary rules for call processing, including call forwarding, call barring and rules for grouping employees.

TeleSvyaz supports further operation, maintenance and modernization of the equipment.

Organization of a single communication infrastructure on a modern telecommunications platform allowed ensuring operational work of HPP employees, expanding the capabilities of the telecommunications network at the same time as reducing costs.

All specialists have a personal short number, which allows them in their work to interact more effectively within the organization, as well as provides significant cost and timesavings. Modern PBX OpenScape 4000 allows the organization to use IP-telephony for any long distance and international calls to further reduce costs.

The result of the project to build a radio network of DECT standard was:

Full duplex voice communication of proper quality;

- Unified numbering plan and support of the main functionalities with the Chirkeyskaya HPP PBX (including connection in both directions, call transfer, call forwarding, exit to external communication channels);
- Flexible configuration of connections and subscriber priorities;
- Fast installation of fixed microcellular phones to provide technological communication to repair and recovery teams;
- Carrying out of conference communication of NPOs with operational personnel selectively or as a whole for management in non-standard situations with possibility of realization of technology Push-to-talk (PTT) and recording of conversations;
- Holding a conference call by the head of the security with the staff of VOHR (armed security team) both selectively and with the whole staff to manage emergencies;
- Interaction of operational service, security service, fire protection service in the framework of the CS and emergency situations.

Provided by your
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