



Iskratel Energy infocommunications

Iskratel Operational Communications for Energy

Key features and benefits

- Adding **metadata** and video to dispatcher **communications** with bulletproof reliability
- **All-IP-based solution** with complete legacy support
- **Single platform** for communications and notifications
- **High availability** for secure and fast distribution of urgent, life-saving information

Digital transformation is modernising the energy segment. Innovative technologies are paving the way for new services and applications, responding to new customers' demands, with many new players and new roles of existing players.

Centralised, real-time monitoring and management of all operational activities along the entire infrastructure ensures better control, greater reliability, and lower OPEX. Iskratel provides a future-proof, comprehensive and flexible infocommunications solution that increases quality, safety and efficiency.

Electric power, and oil and gas utilities usually have their production facilities, substations and compressor stations arranged according to the production, transmission and distribution infrastructure. Iskratel's operational communications offer several solution scenarios, which are ideal for enterprises that have their working units spread across vast geographical areas:

- **Dispatching;** professional workplaces and services for effective and reliable operational communications.
- **Personnel Notification System;** delivers audio and visual announcements to target zones and provides duplex communications with intercoms.
- **Audio Conferences;** multi-party conference system designed for use in operational networks.

All solutions are based on the proven Iskratel SI3000 carrier-grade, all-IP product family, which

offers a variety of interfaces for the POTS, TDM and IP worlds. It provides a wide range of signalling and regulatory functions (LI/SORM), integrated services, transcoding and different functionalities.

The platform supports high-availability, which it combines with distributed network architecture, making any energy network resilient to possible faults. It assures reliable and carefree operations for personnel and administrators.

Dispatching communications

Dispatchers are responsible for a key segment of day-to-day communications in work processes and it is very important that they have a general overview of the systems from a central location.

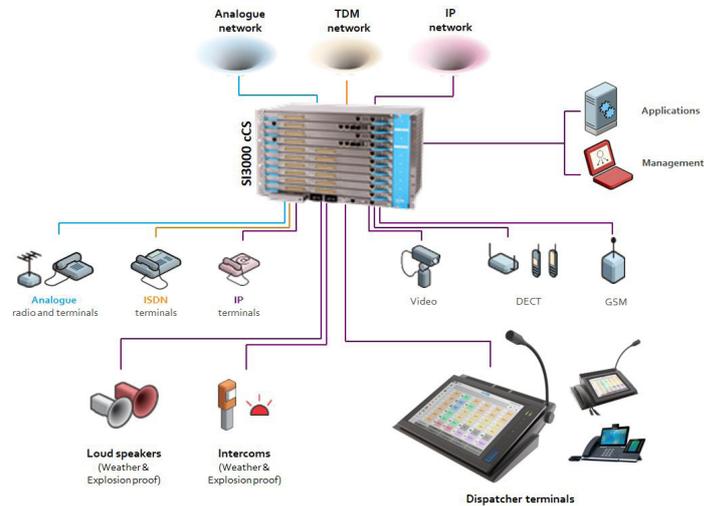
It is also crucial to process all incoming calls and react as quickly as possible. Dispatchers need to be able to connect different types of users to audio or video conferencing for effective operations. A dispatcher needs the ability to intrude, release calls and prioritize users in the network.

Efficient energy operations rely on accurate, real-time communications between stations, terminals, control and dispatcher centres to ensure safe, secure and uninterrupted services.

In day-to-day work, efficient communications increase productivity; while in critical situations, reliable and targeted communications assure maximal safety for people, infrastructure and facilities.

Why choose Operational Communications?

- **Single platform** for communications and notifications
- **Solutions tailored** to customer requirements
- **Modular and scalable** solution
- Improves **security** and operational **efficiency**
- Easy **integration** with **existing** environment
- **70 years** of Iskratel's **experience** integrated inside



Personnel Notification System (PNS)

The PNS solution is a reliable audio announcement system for personnel in various indoor and outdoor installations, as well as for duplex communications with intercoms in harsh environmental conditions.

It ensures content management, distribution and reproduction of audio information with high reliability and availability, along with comfortable use and a full overview of the whole situation. The solution combines communications, controlling, monitoring and announcements functionalities. It provides information to different target groups:

- Safety information in emergency situations.
- Broadcasting of audio information dedicated to specific zones.
- Ambient background music.

Audio Conferencing in technological networks

A dedicated conferencing system for special technological telecommunications networks, designed to effectively deliver voice communications between personnel involved in technological processes. This includes for meetings and the delegation of tasks between the geographically dislocated units where participants have predetermined roles and rights within the conference.

It offers a variety of interfaces for the POTS, TDM and responsible establishing the conference calls, manipulation of the participants and assigning priorities.

Iskratel's accompanying ecosystem

Iskratel's infocommunications solution also includes other subsystems which complement the entire solution:

- Universal communications for Enterprise
- Data transport networks (IP/MPLS)
- Modular Power Supply systems
- Centralized management and supervision of all building blocks

Where experiences and knowledge count

As we have our own R&D and production facilities, we are able to integrate our solutions into existing systems and customize them to customers' requirements. Our systems are scalable, making them suitable for small, medium and large objects.

Our IP platform, which offers full legacy support, supports new applications. Our own SI3000 Call Server provides management functionalities, enabling operators to control the core to tailor the end-to-end solution to their needs.

Our solution is also certified to work in harsh energy environments and meet strict regulatory and industry requirements.

Iskratel operational communications for energy segment represent **set of subsystems** which **integrate** into **existing** energy telecommunications **environment** in order to **simplify** communications among all the stakeholders to assure more **efficient** day-to-day and **emergency** communications.

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