



Iskratel Energy infocommunications

# Personnel-Notification System (PNS)

## Benefits of the solution

- **Single platform for communications and notifications**
- **Secure and fast distribution of urgent, life-saving information to targeted zones**
- **Provides duplex communications with intercoms.**
- **Safety information in emergency situations**
- **High availability**
- **Ambient background music**

Accurate informing of personnel about general events happening in their working environment is one of the crucial points of a modern enterprise segment. Our solution enables the delivery of powerful information, a secure system for alarm and event handling, as well as the priority levels of live notifications, messages, pre-recorded alarming via messages and external audio announcements or signals. Ambient background information or relaxing music can improve the daily working obligations of the company's personnel. Iskratel's Personnel-Notification System (PNS) enables consistent and reliable audio notifications and announcements to enhance internal communication in industry environments. The system integrates data and audio technologies to enable high-grade functionalities for indoor and outdoor use for all kinds of businesses, including demanding industrial environments.

The PNS allows targeted transfer of information to all locations where your staff members, customers or other groups of people congregate. Announcements, pages or background music are transmitted clearly and distinctly with excellent sound and voice quality, whether in enclosed spaces or outdoors.

## ISKRATEL'S APPROACH

We produce detailed public-address plans taking into account all site conditions. In order to meet even the most challenging

requirements for a professional and full-coverage public address system, we gather all required technical equipment, as well as the exact number and positioning of the loudspeakers.

The solution fulfils demanding requirements and 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. It combines communications, controlling, monitoring and announcements functionalities. A typical system in industrial environments must provide different kinds of information to different target groups:

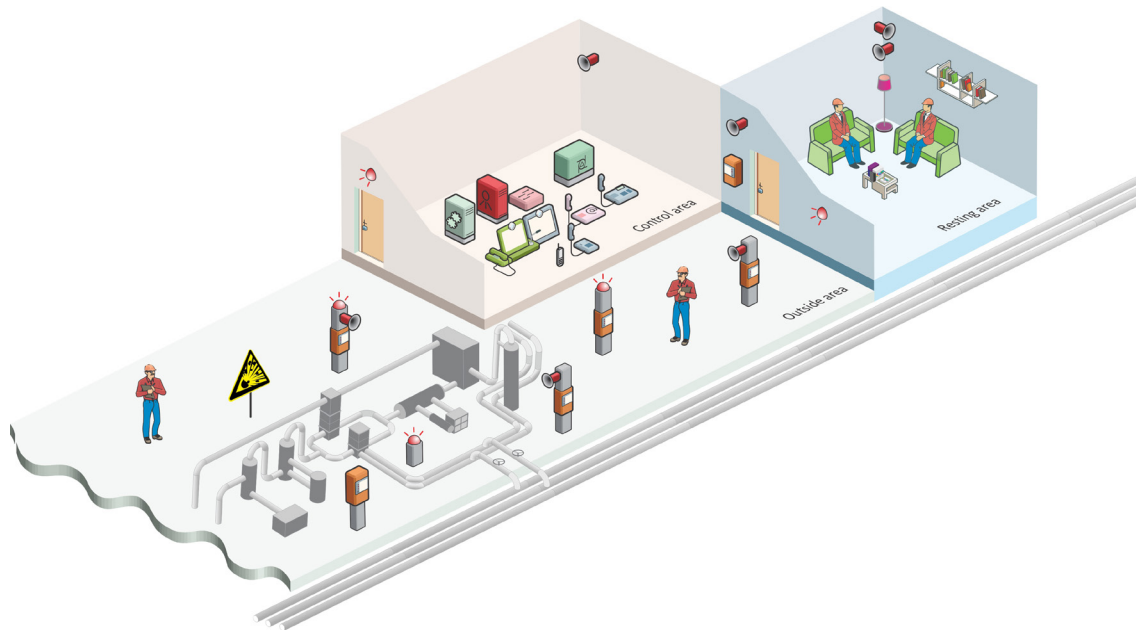
- Safety information in cases of emergency
- Broadcasting of dedicated audio information
- Ambient background music

Iskratel's PNS solution can be implemented in many different configurations as a standalone solution or as a part of the general information and communications solution.

Audio distribution provides users with a reliable audio notification with high intelligibility in any circumstances. HD quality of voice is assured by Iskratel Peripheral Interface blade (PIA blade) for IP/analogue conversion. Zones with high ambient noise speakers can be combined with flashing beacons for enhancement.

## Why choose Iskratel's PNS

- **Single platform** for communications and notifications
- **All-IP-based** solution with complete **legacy** support
- **Flexible** custom-made implementations with **high availability**
- Easy **integration** with **existing** environment
- **70 years** of Iskratel **experience** integrated inside



## UNIVERSAL PLATFORM

The Iskratel PNS combines scalable and reliable equipment positioned at central and dedicated locations, interconnected on the basis of IP communication protocols. It is based on the advanced and proven, carrier-grade SI3000 platform, in order to provide secured, controlled and supervised communications. The Iskratel solution also provides a reliable personnel-notification system in weather and explosion-exposed areas. Its architecture is divided into three major categories:

- Communication platform
- Information and Notification services
- Audio information delivery systems

Besides the large set of output devices which are part of the system, we also integrate intercom systems and audio systems with loudspeakers notifications.

## SOLUTION HIGHLIGHTS

Iskratel's solution is modular and easily configurable. It fulfils the present and future demands of operators in high-risk areas.

The design of the Iskratel PNS is driven to meet other requirements, such as integration with video surveillance, higher bandwidth, constant communications recording and location-based services.

Intelligently managed end units provide VoIP audio-stream announcements in multiple areas and take into account the priorities and alarms. The digital acoustic echo eliminator and the powerful noise-cancelling algorithms provide intercom personnel hands-free full-duplex usage operation in environments where the noise level exceeds 100dB.

Each individual area is controlled with an intelligent end unit and amplifier to achieve the highest redundancy at any time and ensure automatic adjustments of the transmission volume according to the noise of the environment.

*Iskratel PNS offers high availability dispatcher services with fully redundant configurations, while being a central server driven solution. PNS can be used as a standalone solution or integrated as a crucial part of operational and technological communications on a common control centre for communicating, controlling and monitoring all the end devices in high-risk environments where the safety levels of personnel must be the first concern.*

# ISKRATEL

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