



Iskratel InfoCommunication Solutions for Energy Personnel Notification System

Why the Iskratel PNS Solution?

- Secure and fast distribution of urgent, life-saving information
- Increased safety of personnel
- Flexible custom-made implementations
- Future-proof IP solution

The Iskratel Personnel Notification System (PNS) is a modern, complete solution for specific, highly challenging industrial environments, where tasks require the highest possible safety levels for personnel and equipment.

Mission-critical information is distributed to personnel by voice and/or a visual announcement system placed in diverse industrial areas. Information from the Iskratel PNS at corresponding locations provides life-saving notifications to the relevant personnel in unpredictable situations.

UNIVERSAL PLATFORM

The Iskratel PNS is a combination of scalable and reliable equipment positioned at central and dedicated locations, interconnected on the basis of IP communication protocols.

The Iskratel PNS is based on the advanced, but 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-proof areas.

INTERWORKING WITH OTHER SYSTEMS

High-risk environments are associated with other systems, like SCADA and DCS. The Iskratel PNS supports standard software and hardware interfaces via web services and I/O modules.

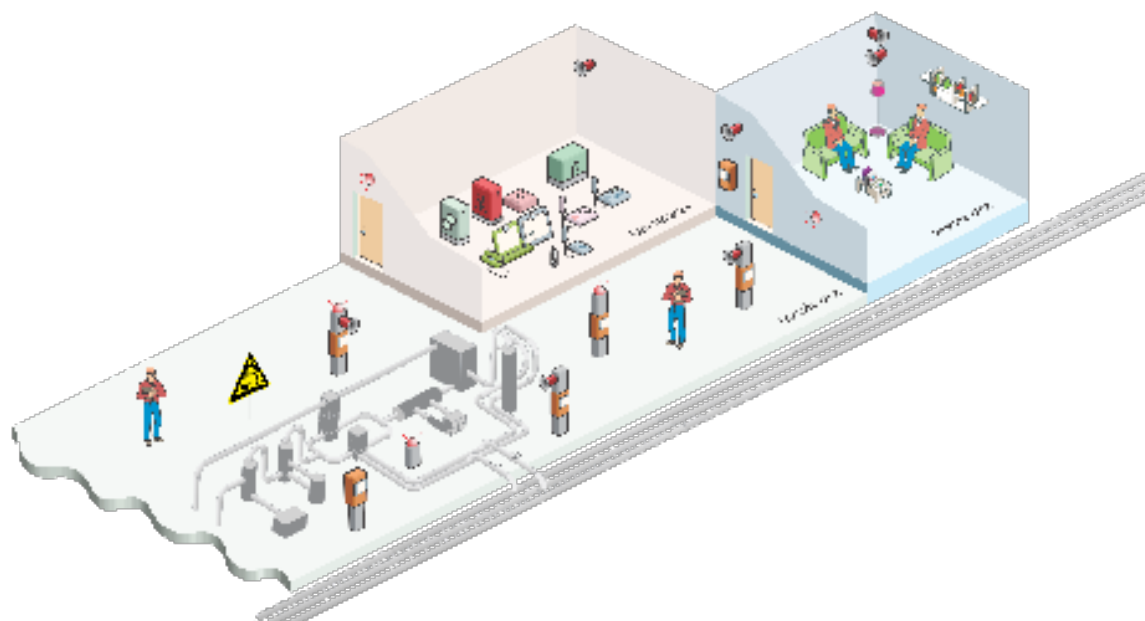
SUITABLE FOR FUTURE ENHANCEMENTS

Iskratel's solution is modular and easily configurable. It fulfils the present and future demanding requirements 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 bandwidths, constant recording and location-based services. The Iskratel platform is open to support any new value-added services.

PNS customer benefits:

- Flexible equipment options ensure adaptation to every operator's working environment
- High availability is achieved by redundant configurations
- Solution tailored to customer requirements



Dispatcher benefits:

- Simplified working process using high-end features
- Dispatcher terminals with durable, bright, touch-screen LCD
- Easy to use terminals to ensure safe and reliable dispatcher communication
- Speaker Box for hands-free usage

SOLUTION HIGHLIGHTS

Intelligent, managed end units provide VoIP audio-stream announcements in multiple areas, and also take into account the priorities and alarms. They cover the diagnostics of a full audio path, and can trigger the redundancy system 1+1 or N+1 configuration.

The digital acoustic echo eliminator and powerful noise-cancelling algorithms provide intercom personnel hands-free full-duplex usage operation in environments where the noise level exceeds 100dB.

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

Powerful diagnostic supervision and priority-level handling on all solution equipment can be carried out from a central location.

Wide range of handling and controlling audio events such as live notifications,

messages, external signals and pre-recorded announcements.

SIP-controlled intercom stations with the ability to enable additional self-powered loudspeakers for ensuring normal operations in high-noise environments.

High availability with full redundancy of the central server.

With fewer physical elements and a modular structure, the Iskratel Personnel Notification System is easy to operate, maintain and troubleshoot.

The solution offers dispatcher services on a common control center for communicating, controlling and monitoring all the end devices in high-risk environments where the safety levels of personnel must be the first concern.

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