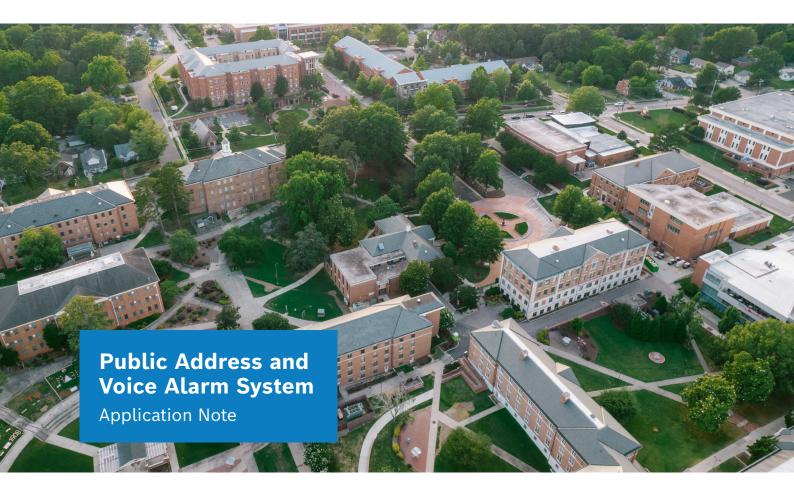**BOSCH**

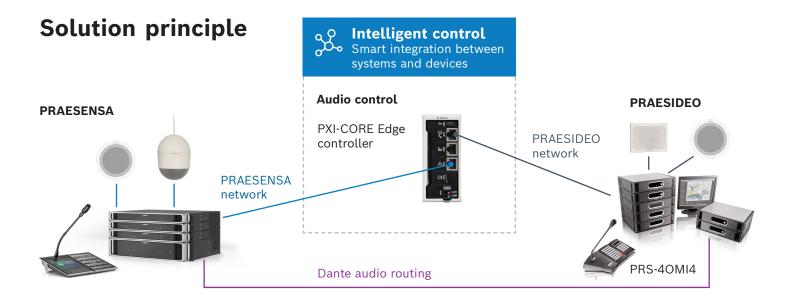**Public Address and Voice Alarm System**
Application Note

Multi-site location

Intelligent control – making it easy to migrate from PRAESIDEO to PRAESENSA

Intelligent control by Bosch allows users to extend the investment value of their existing PRAESIDEO components while expanding the size and functionality of their public address and voice alarm system with the latest PRAESENSA components. This makes a phased migration to the future-ready features and flexibility the all-IP-based PRAESENSA system possible. Advantages include the routing of calls and background music over the complete system, and flexible backwards system compatibility based on peer-to-peer IP communication between systems.

Our solution
The Intelligent control application runs on the PXI-CORE Edge controller. Combined this offers a supervised interface allowing PRAESIDEO and PRAESENSA system components to connect, communicate and manage action triggers and commands in both directions. PRAESIDEO fault status can be transmitted to the PRAESENSA system and vice versa. The intuitive Intelligent control interface is a web-based client that allows the configuration of logic and/or rules for audio control, with no programming skills required. Separate Dante audio routing ensures the highest sound quality with the lowest latency.

Solution principle

Intelligent control
Smart integration between systems and devices

PRAESENSA

Audio control

PXI-CORE Edge controller

PRAESIDEO

PRAESENSA network

PRAESIDEO network

PRS-4OMI4

Dante audio routing

Application areas

Installed PRAESIDEO installations requiring extension with PRAESENSA via a direct peer-to-peer, system-to-system interface

- Office buildings and hotels
- Schools and universities
- Shopping malls
- Transportation such as airports, metros and railways
- Exhibition centers

Use cases:

1. **As a system operator** I can make business calls from PRAESENSA to PRAESIDEO on zone, zone group or system level.
2. **As a system operator** I can make business calls from PRAESIDEO to PRAESENSA on zone, zone group or system level.
3. **As a business owner** I can play background music from an audio source connected to a PRAESIDEO system on a zone, zone group or system level of the PRAESENSA system.
4. **As a business owner** I can play background music from an audio source connected to a PRAESENSA system on a zone, zone group or system level of the PRAESIDEO system.
5. **As an engineer** I can interface PRAESIDEO and PRAESENSA systems based on a fully IP-based connection for audio and audio control.
6. **As an engineer** I am informed about faults on the PRAESIDEO system in the PRAESENSA system.

The benchmark in public address and voice-alarm

PRAESENSA is the standard for quality, security and reliability in public address and voice alarm systems. With all system components fully IP-networked, PRAESENSA offers straightforward and seamless integration with maximum flexibility for all kind of mission-critical environments, no matter the size. Together with the user-friendly and powerful BIS management software from Bosch, it is possible to perform all actions or define automated jobs for multiple alarm systems under one convenient graphical user interface.

Main benefits

For the system integrator/installer:
- Extension of existing PRAESIDEO installations and opportunity to migrate into PRAESENSA
- Easy-to-configure web based interface without programming skills – any technician can do it
- Flexibility due to virtually unlimited amount of logic rules for trigger and action
- Full Bosch public address and voice alarm solution
- PRAESENSA devices are constantly monitored for faults or trouble. Bosch Intelligent control receives information from the PRAESIDEO network controllers about faults
- Supervised interface towards the PRAESIDEO and PRAESENSA system

For the owner:
- Extension of existing PRAESIDEO with the new fully IP-based PRAESENSA platform
- Future-ready
- Protection of earlier investment
- Routing of business calls and background music across the entire system

For the operator:
- PRAESENSA's intuitive user interface to manage calls on the whole PA system
- A single call station to page into the entire system