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## Public Address Systems for Large Building Complexes

An integrated solution by Bosch and Sittig

### Challenges

Large building complexes like airports, shopping malls, train stations or industrial facilities face various challenges when it comes to managing the high amount of announcements into a large number of zones across long distances. The bigger the building, the more complex the public address system usually gets. This requires additional functionalities and creates challenges when integrating and controlling the various systems.

#### Market requirements

For flawless 24/7 operation, the entire Public Address System should be able to be monitored and controlled in a smart, easy way from a single point of control. PA systems must be seamlessly integrated into various IT environments comprising a scalable, future-proof technology that offers interfaces to other systems as well as high flexibility for a smooth, cost-effective integration and installation process.

#### Our solution: seamless integration and a wealth of functions

In combination with the Bosch PRAESENSA Public Address and Voice Alarm system, Sittig's IP-based announcement technology offers a wide range of functions for managing manual and automatic announcements of the highest quality – a combined solution that is fully IP-based with a

high automation degree, uniting best public address systems from Sittig and Bosch.

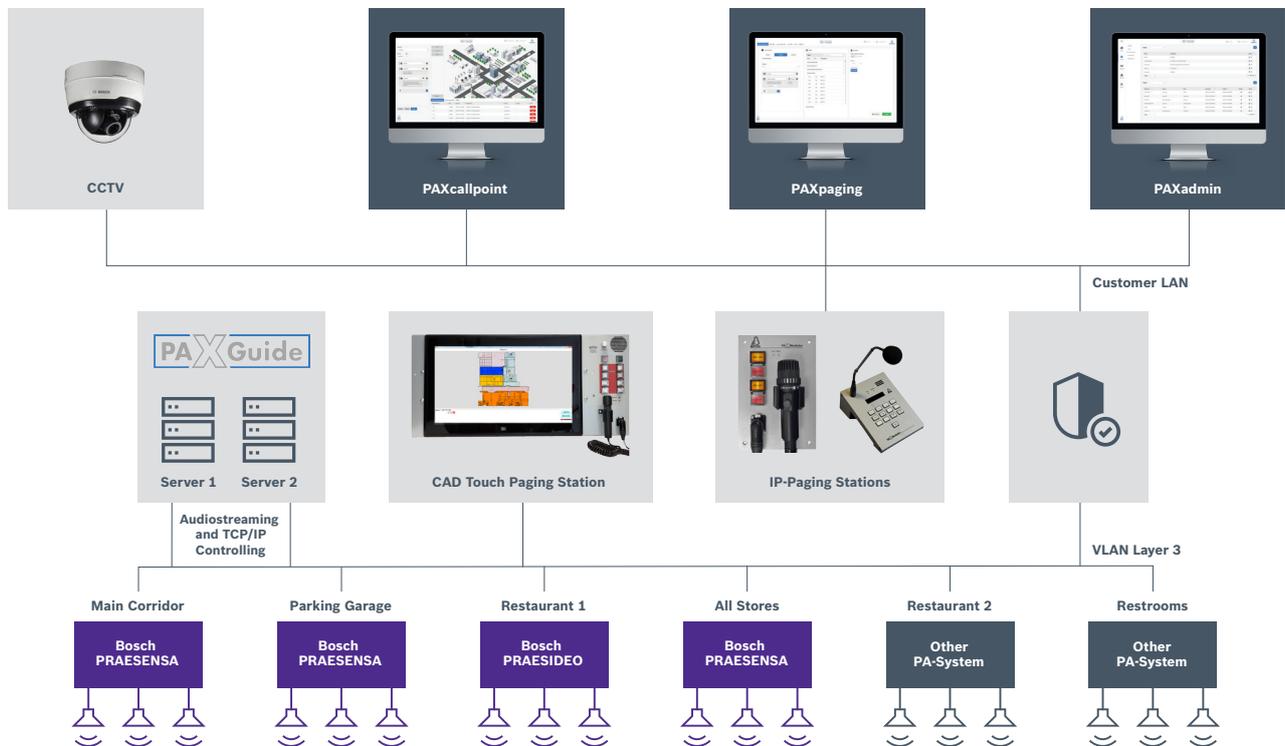
- ▶ Bosch **PRAESENSA** is an IP-based, fully featured public address and voice alarm system. Designed with ease-of-use in mind, PRAESENSA offers straightforward installation and integration, delivering superior audio quality with an easy-to-use interface. The combination of IP-connectivity, a smart power concept and integrated redundancies all give you an extremely cost-efficient solution that is equally suited to centralized and decentralized topologies.
- ▶ **PAXGuide** system by Sittig is a modular approach that perfectly suits many customer needs. A large library of extension modules can be added to



the core system, such as Text-to-Speech, an airport operational database interface, a flight information display system interface, a camera systems interface, a web browser interface, several web user interfaces for

different use cases and many more modules. Sittig also offers a lean, cloud-based automatic announcement system with PAXGuide Cloud – hosted in the Sittig Cloud or in a private cloud at the customer's site.

### System example for shopping malls



#### Benefits for the system integrator/installer:

- ▶ IP-based technology using the existing IT-infrastructure
- ▶ Interfaces to camera systems
- ▶ Interface to several databases (e.g. AODB)
- ▶ Strong integration with the Bosch PRAESENSA system for controlling each loudspeaker line
- ▶ Interconnection of several Praesensa systems
- ▶ Connectivity of the PRAESENSA system with other PA-systems
- ▶ Backward compatibility with Bosch PRAESIDEO systems
- ▶ Multiple web applications designed for different use cases
- ▶ On-premise or cloud hosted

#### Benefits for the operator/owner:

- ▶ User-friendly operation and offers extensive control options (PRAESENSA)
- ▶ Intuitive user interface (PRAESENSA)
- ▶ Cost-efficient, energy-saving solution due to smart power concept (PRAESENSA)
- ▶ Failure-safe solution by integrated redundancies (PRAESENSA)
- ▶ Manual and automatic announcements
- ▶ Text-to-Speech and human prompt voice speech modules

#### Benefits for the end user:

- ▶ Announcements throughout the building with the highest intelligibility

### Bosch Security and Safety Systems

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