



### **Certified solutions**

As part of the Bosch Security Systems commitment to meeting international standards, Praesideo meets legislated requirements for voice alarm systems. Praesideo by Bosch is certified according to EN 54-16, ISO 7240-16, EN 60849 and compliant with BS 5839:8. The system is also certified for many local evacuation standards.

### **Complete security solutions**

Bosch Security Systems offers a wide range of security, safety, and communication solutions that are relied upon every day in applications and places around the world, from government facilities and public venues to businesses, schools and homes.

**For more information about the Praesideo Digital Public Address and Emergency Sound System, please feel free to contact your nearest Bosch representative or visit our website: [www.boschsecurity.com](http://www.boschsecurity.com).**



**EN54-16**

EVAC Certified  
Emergency  
Voice Alarm

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# Praesideo voice evacuation

## Application Note: Public and Office Buildings

- ▶ EN 54-16, ISO 7240-16 and EN 60849 certified
- ▶ Superb sound & speech reproduction
- ▶ Multi-zone functionality
- ▶ Easy-to-use: intuitive user interfaces
- ▶ Extensive integration possibilities



**BOSCH**  
Invented for life



**EN54-16**

EVAC Certified  
Emergency  
Voice Alarm

### Introduction

Today's medium- and large-scale buildings have complex requirements for their voice evacuation systems. To improve safety and reduce response times, the system is often linked to the building's fire detection system. That way, public alarms and voice evacuation programs can be initiated automatically, as soon as a fire is detected. The building is typically divided into several zones, each with specific power requirements, and the

number of PA zones is often the same as the number of fire detection zones. The overall set-up needs to conform with local fire regulations and must comply with various international standards, including EN 54-16, ISO 7240-16 and EN60849. Praesideo by Bosch, with its extensive possibilities for integration, multi-zone functionality, standards compliance, and superb sound and speech reproduction, meets all these requirements.



### Summary of requirements

- ▶ Exceptionally high-quality speech reproduction
- ▶ Graphic User Interface and diagnostics in security center
- ▶ Integrated voice evacuation
- ▶ Background music in offices and reception
- ▶ Interface to fire alarm system
- ▶ EN54-16, ISO7240-16, EN60849 certified
- ▶ BS5839:8 compliant

### Solution

In addition to the evacuation function, the Praesideo system is also used for general paging announcements and routing background music to public areas in the building. The Praesideo system architecture uses a cost-effective “daisy-chain” network topology that allows system units to be connected at any location on the network. Standby and monitoring functions are incorporated in Praesideo. If an amplifier fails, the system switches automatically to a spare amplifier that is kept on continuous standby for this purpose.



- 1 Equipment racks
- 2 Fireman's Panel
- 3 Telephones for announcements
- 4 Call Station + Numeric Keypad

### System description

The Praesideo system is connected to multiple background music sources and the buildings fire detection system. The power requirement for the zones differs from relatively low in working areas to high in the restaurant/canteen or parking garage. Praesideo's "wire-free" loudspeaker line monitoring system operates on the existing 100 V line without the need for additional wiring.

A telephone connected to Praesideo via the telephone system or call station with keypad and located on each floor, can be configured by the tenants to support various functional requirements, such as door release, pre-recorded messages, local music on/off and volume control. The telephone can be replaced with a call station and keypad for same functionality.

When connected to a fire alarm system, the Praesideo system can broadcast pre-recorded messages when triggered by a general or zoned fire alarm. Having a fireman's panel installed at each entrance point makes it possible to manually override an evacuation. In accordance with international standards, if the fire alarm system is combined with a voice evacuation system, the evacuation system can only be reset when the fire alarm system is running back in "non-alarm" status. For day-to-day maintenance and use by the security staff, the Praesideo system is supplied with a software-based PC Call Station plus fault-logging software.