



BOSCH

Invented for life

The Right Combination
for Ultimate Safety.

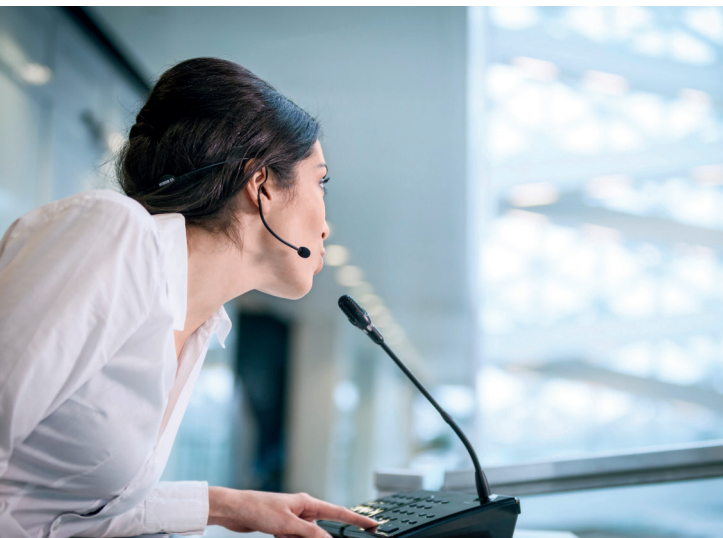
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Interfaced Fire Detection
and Voice Alarm.

All-in-one Protection

Interfaced Voice Alarm and Fire Detection

Having the right building protection system gives everyone peace of mind – from property owners and security personnel to employees and visitors. When safety is at stake, the system has to respond immediately with accurate, cutting-edge performance and with clear messages that keep everyone calm, no matter what. Bosch takes an interfaced approach to building protection, offering a combination of proven systems that delivers the ultimate in safety.



- ▶ Wide range of products from one supplier
- ▶ Supports projects of all types and sizes
- ▶ Outstanding operational security
- ▶ Intuitive handling
- ▶ Best in class fire detection performance
- ▶ Crystal clear voice messages
- ▶ Multi stage evacuation
- ▶ Reliable and secure interface between fire detection and voice alarm systems

Smart Safety Link

for Supreme Performance at any Size

The Advantage of Smart Safety Link

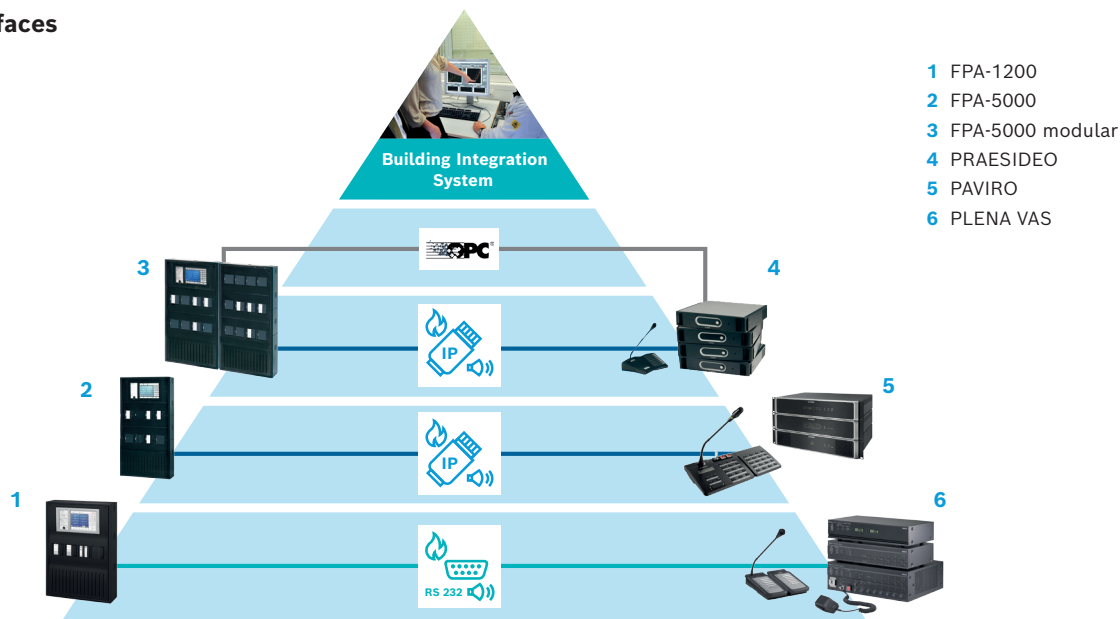
Smart Safety Link is the most reliable and secure way to combine fire detection and voice alarm. The supervised two-way communication ensures that each single-voice evacuation zone is controlled by the fire panel in case of a fire. Each system meets the highest standards for quality, safety and functionality and offers exceptional flexibility and options for expandability.

The result is a future-proof installation supported by a world leader in fire detection and voice alarm. The activation of each evacuation zone is completely monitored by the fire panel and is clearly displayed on the user interface as well. Smart Safety Link easily supports multi-stage evacuation which ensures a highly effective approach to emergency situations.

One link for every occasion

Choice of interfaces

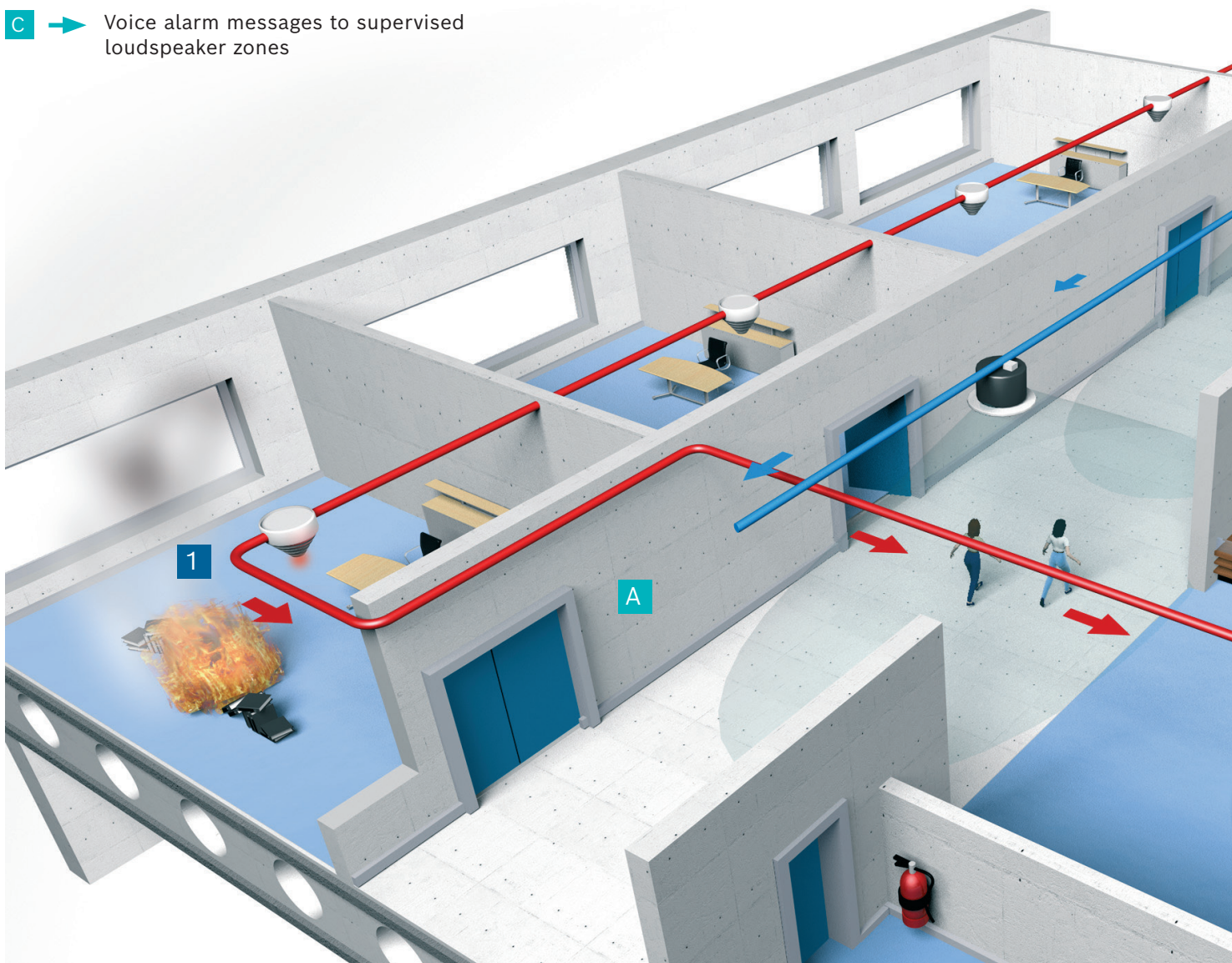
- OPC Ethernet
- IP Ethernet
- RS 232



Solution overview by size of application, determining the number of detectors, channels and zones

Size of application	Typical Bosch Safety solution
Large & complex site e.g.: event hotel, airport, event hall, shopping mall, university	Networked Modular Fire Panel 5000 Series - >2000 detectors Praesideo System - 28 channels and high number of zones Both can be connected to a building management system
Medium site e.g. hotel, office, school, hyper market	Modular Fire Panel 5000 Series – up to 2000 detectors PAVIRO System - 4 channels, 12 up to 492 zones
Small site e.g. retail shop, department store, super market	Fire Panel 1200 Series – up to 254 detectors Plena VAS – 1 channel up to 6 zones

- A → Detector signals to fire panel
- B → Smart Safety Link between fire panel and voice alarm system
- C → Voice alarm messages to supervised loudspeaker zones

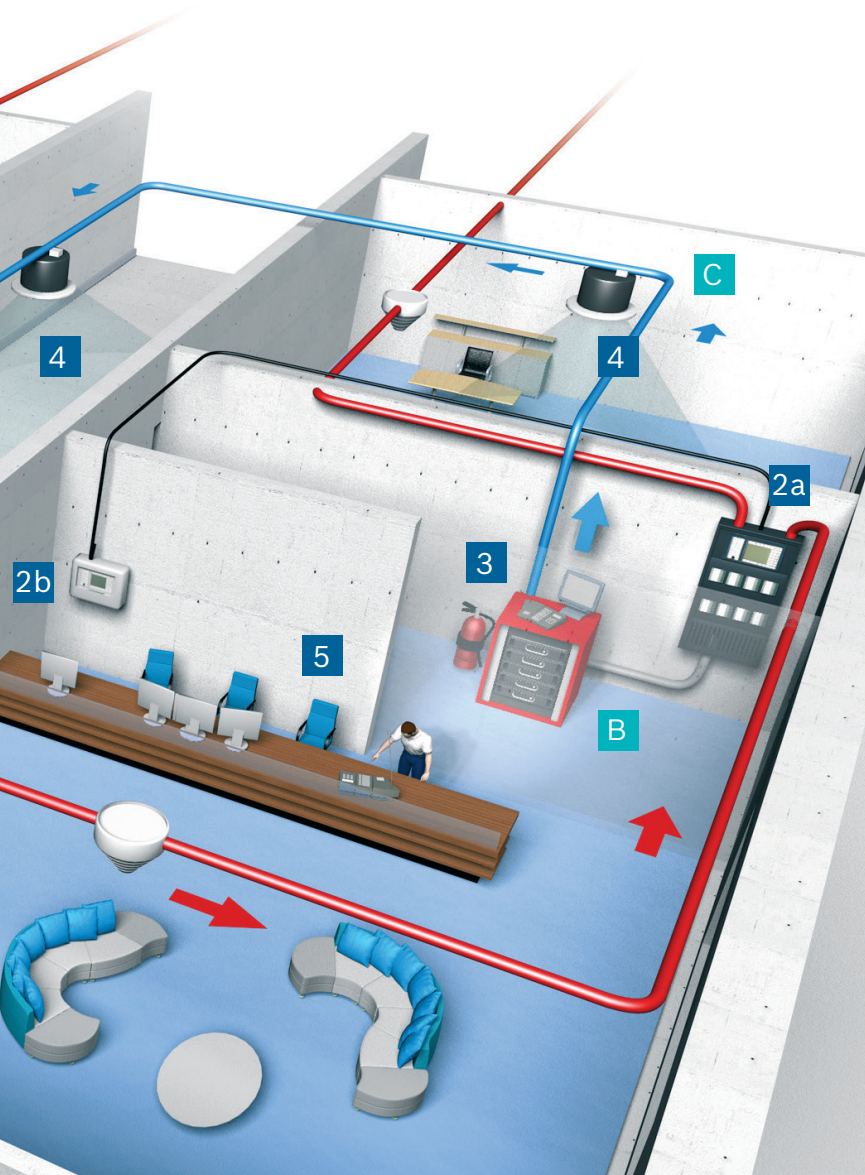


Effective Fire Safety

The addressable fire alarm system includes high-quality panels and peripherals designed for earliest detection. Advanced detectors, interface modules, manual call points, sounders and other peripherals add flexibility and support special applications. Maintenance is easy, with permanent supervision of all system functions and peripherals for added reliability. For smaller venues, the Fire Panel 1200 Series supports up to 254 peripherals, and, in medium-sized and in large facilities, either a single panel or a networked solution with the Modular Fire Panel 5000 Series can accommodate up to 32,000 peripherals.

Advanced Voice Alarm

Bosch includes everything required for an advanced voice alarm system. The system can route prerecorded voice messages and signals and can provide background music and commercial announcements during everyday operation. Permanent supervision of system functions and loudspeaker lines adds extra reliability. The Plena Voice Alarm System supports small applications up to 6 zones. PAVIRO is the leading choice for medium-sized venues with up to 492 zones, while Praesideo is ideal for larger buildings and complex configurations. The voice alarm systems provides the advantage of significantly reducing installation and maintenance times. Bosch offers complete range of certified speakers for playing voice messages with an excellent speech intelligibility applicable in various acoustical environments.



Safety chain

- 1) Fire detector detecting fire hazard
- 2) a) Fire panel
b) Remote keypad
- 3) Voice alarm system
- 4) Loudspeaker zones with pre-recorded alarm messages
- 5) Security room (sample setup)
 - ▶ Remote keypad
 - ▶ Call station for live messages
 - ▶ Building management system

Bringing It All Together

The fire panel offers high flexibility in terms of project design and it allows for customer-specific and complex evacuation rules to be programmed. The whole system, which is completely EN certified, can be interfaced easily without having to install complex cabling, which leads to time and cost savings during installation and wiring. At the same time, the risk of incorrect cabling is eliminated, since only one Ethernet connection is required as opposed to multiple-cable connections in the past. The extensive diagnostic functions enable fast, continuous analysis of the connection state, resulting in clear feedback.

Smart Safety Link for Every Project

In small applications, Plena Voice Alarm System can be connected with the Modular Fire Panel 1200 Series via a RS-232 interface. In mid- and big-sized projects, PAVIRO and Praesideo interface with the Modular Fire Panel 1200 or 5000 Series by using the Smart Safety Link over IP Ethernet. The Modular Fire Panels and Praesideo can additionally be connected to a superior Building Management System via OPC or by using an SDK (Software Development Kit).

A Tradition of Quality and Innovation

For over 125 years, the Bosch name has stood for quality and reliability. Bosch is the global supplier of choice for innovative technology, backed by the highest standards for service and support. Bosch Building Technologies proudly offers a wide range of security, safety, communications and sound solutions that are relied upon every day in applications around the world, from government facilities and public venues to businesses, schools and homes.

Bosch Building Technologies

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