



Importance of Public Address and Voice Alarm solutions

A traditional fire alarm system uses a bell and/or sounder to provide evacuation. This expects the people in the building, including a visitor, to have knowledge of any emergency exits. Also, regardless of the location, everyone is going to hear the same bell sound. This can lead to confusion and panic in the event of an evacuation.

A voice assisted evacuation system, such as Voice alarm systems (VAS); however, can effectively communicate information with clear voice messages to a large area or building in an emergency. Research* has shown that verbal messages elicit a response more than **five times faster** than traditional bells and sounds. With the possibility to customize voice messages, including localization, a voice-assisted evacuation system can dispatch location-specific messages, guiding individuals to the closest emergency exits during a phased evacuation.

This help to reduce confusion and panic, thereby yielding a faster evacuation compared to legacy systems.


When these two systems are integrated (i.e, fire alarm and voice alarm), they can automatically broadcast a voice alarm to endangered areas, thereby reducing response time.



*) Reference: [NRC Publications Archive/Archives des publications du CNRC](https://www.nrc.gov/publications/Archives/publications/Archives%20des%20publications%20du%20CNRC)

Even though at its core, a PAVA system is primarily designed to offer emergency evacuation messages, given today's demand to deliver a unified and cost-effective solution, a PA/VA system can also be multi-functional, addressing a wide range of communication needs:

Voice Alarm & Life Safety Announcement



Beyond fire emergencies, a PAVA system is key in other emergency situations such as terrorist attacks, school lockdowns, natural disasters, gas leaks in an industrial plant, etc. In those cases, PAVA paging announcements help keep staff informed of emerging situations, ensuring they can respond appropriately. Voice alarms, Evacuation messages, and Mass notification content can be triggered to direct people away from hazards and to the nearest safe zone. Emergency services and first responders can use emergency mics to send prioritized calls over the PA, which will override non-essential calls to maximize the efficiency of the emergency response.

Security Announcement

From the control-centre staff can trigger pre-recorded warning messages or send direct instructions via a live announcement to a specific area in stores, parking lots, and more, where a potential security risk is present. By being able to interact remotely, security system owners can reduce the need for physical intervention, while also reducing response time.

Operational Broadcast

Another key use case for PAVA is the broadcast of daily operational messages to staff and visitors to keep everyone informed. This could include security reminders for passengers at an airport or platform announcements at a train station.



Background Music

PAVA systems can also be used for playing background music (BGM) to areas such as retail stores at a train station. PAVA systems are built to deliver clear and intelligible audio, ensuring that background music is of high quality and evenly distributed throughout the area. By being able to centrally manage, yet locally control, a PAVA system allows each outlet owners to select and control the background music locally to suit the vibe of their outlet. The PAVA system manages announcement priorities, silencing BGM in the event of an emergency.

A multi-functional PAVA system helps reduce the number of audio systems by merging operational, life safety, and infotainment communication systems into a single platform. This not only makes it cost-effective but also reduces the maintenance and upkeep required for several disparate audio systems.

How to select your Public Address and Voice Alarm Solutions?



A well-balanced PAVA system provides compliance with all local, national, and regional certification requirements for emergency use, while maintaining the high acoustic performance demanded by background music, operational, and security announcements.



1

Compliance to the necessary standards

Zenitel's Public Address and Voice Alarm solutions are designed for high availability and 10-year operating lifespans. They meet rigorous safety standards including EN 54-16, UL and CSA certifications.

2

Deliver highly intelligible audio

Zenitel is recognised globally as an audio expert. Our solution comes with advanced audio-processing capabilities to deliver crystal clear, highly intelligible audio for messages and background music in all kinds of environments. Whether it is a noisy stadium, bustling railway station, or a busy shopping mall or office building, you will benefit from the increased safety and security that comes with the use of high-quality audio.



3

Fully scalable solution

The design of Zenitel's Public Address and Voice Alarm Solutions gives you all the options you need without any compromise on performance. The solution enables you to choose between centralised and decentralised architectures and rackmount or wall mount installation, coupled with dynamic configuration options for zones and amplifier power. Thanks to a design with multiple levels of redundancy, the solution is highly robust and offers high serviceability.

4

High-quality and proven solutions

Zenitel is recognised world-over as a quality provider of critical communication solution. You can introduce our Public Address and Voice Alarm solution to your facility with a confidence that it will deliver what its designed for, every time and in all situations. In addition, the solution has already been deployed and is operational in many demanding environments globally with great customer feedback.

5

Seamless Integrations

Benefit from an end-to-end critical communication solution from Zenitel, thanks to the addition of networkable Public Address and Voice Alarm solutions. Its seamless integration with other Zenitel solutions such as intercoms and IP speakers improves security team's response times. Its excellent interoperability with other business services and systems such as VMS, PABX, DECT/Radio and more reduces the complexity of your integrations between subsystems.

Why Zenitel?

Zenitel is well positioned to drive the future of intelligent critical communication solutions. Through our portfolio of IP products and solutions, with built-in intelligence and a focus on cybersecurity, we provide organisations with superior, scalable security and flexibility. Zenitel is the proven, preferred choice for environments requiring crystal-clear audio to ensure the protection of human life, property, assets and the management of critical activities. With interoperability at all levels, we seamlessly integrate with access control, video management and security platforms.