



PerfectSync

Fire Audio Perfected



PerfectSync[®] Fire Audio Perfected

The way people react during the earliest stages of a fire is the most important factor in determining survival.

Audio systems are proven to reduce reaction times, but they can only be truly effective if the messages they transmit are clear and understandable.

PerfectSync is the only system available that guarantees complete, super-fast synchronization of audio messages, alarms, strobes and paging across entire fire networks of up to 150 nodes.



Total Synchronization for Maximum Intelligibility

PerfectSync Exceeds the Standards

The current standards require intelligibility and a degree of synchronization:



- NFPA72-13 section 18.4.10 requires that: “voice communication systems shall reproduce pre-recorded, synthesized, or live messages with voice intelligibility”.



- Section 33.3.3 of the UL864 10th Edition requires that audio tones (standard alarm evacuation signal consisting of the three-pulse temporal pattern) as detailed in the National Fire Alarm Code (NFPA 72) be synchronized on defined ‘notification zone(s)’

However, PerfectSync guarantees unrivaled intelligibility thanks to perfectly synchronized audio messages over networks of up to 150 nodes with 2,300 amplifiers.

Occupant safety is ‘job one’.

Performance far beyond regulatory requirements sets PerfectSync apart from other audio systems.

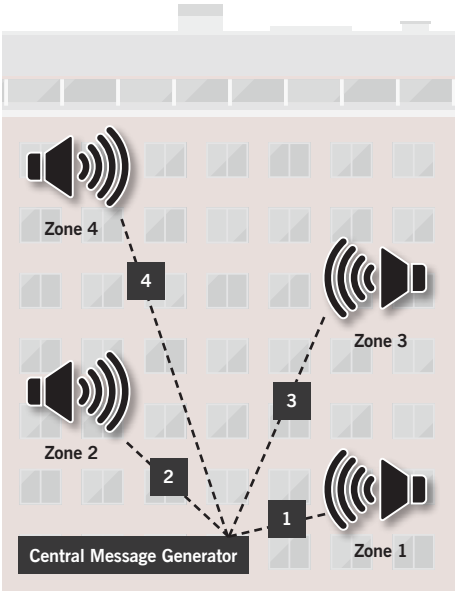
By intelligently reacting as conditions alter, PerfectSync rapidly re-synchronizes messages across multiple audio/evacuation zones, even on the largest networked systems.

Centralized Voice System Installed

Centralized message generators can fail, creating an inherent weak point in the system. Furthermore, they do not cater for dynamic, spreading fire situations.



In spreading fire situations, centrally generated messages can sometimes start part way through, leading to confusion

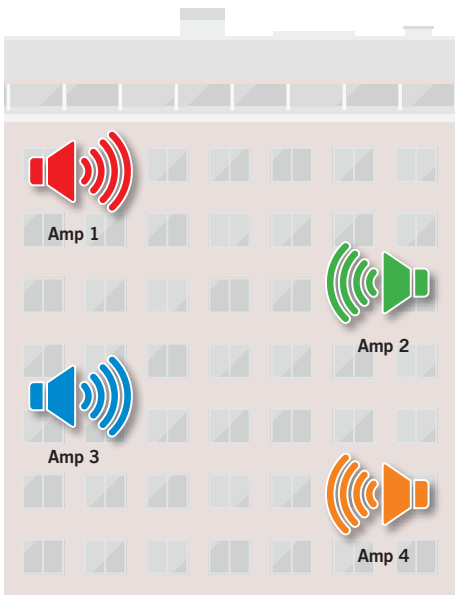


Distributed Voice System Installed

Although messages are generated at each amp, if they are not synchronized, notifications become hard to understand.



Amps 1, 2, 3 and 4 activate in random order. Messages are not synchronized, leading to confusing notification

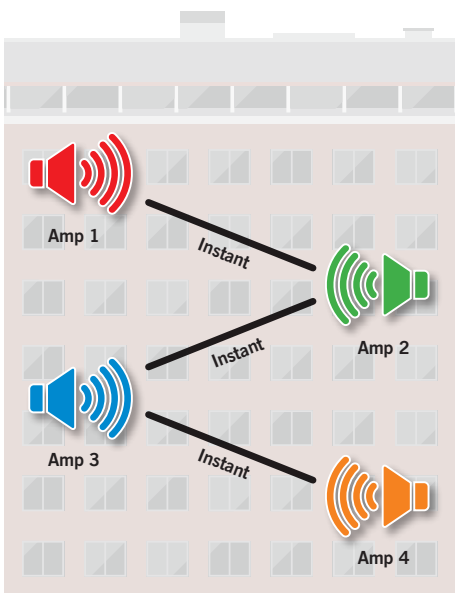


PerfectSync Installed

With PerfectSync, all voice messages, fire alarm signals and strobes switch on at exactly the same time. They remain in sync – even during spreading fires and live voice notification – ensuring non-confusing notification.



Amps 1, 2, 3 and 4 activate simultaneously ensuring total message clarity



Why is PerfectSync so effective?

PerfectSync operates using Advanced's ultra high-speed, fire system-specific protocol.

This means that:

- Audio signals are immediately activated and synchronized with other identical messages across the entire network – regardless of its size.
- All strobes are completely synchronized, network-wide.
- Total synchronization is achieved even if the same message is played from different panels and/or amplifiers on a large network.



- The maximum time to re-activate any speaker output following a change in message never exceeds 5 seconds.
- PerfectSync ensures that recorded messages always start from the beginning (to avoid confusion).
- Stored digital messages can be re-activated within less than 5 seconds following release of any pager function and are quickly re-synchronized with other identical messages across the entire network.
- In a spreading fire, alert messages are automatically halted and switched to an evacuation message within 5 seconds, then quickly synchronized with other identical messages across the entire network.

*Typical time – dependent on message length and local code requirements.

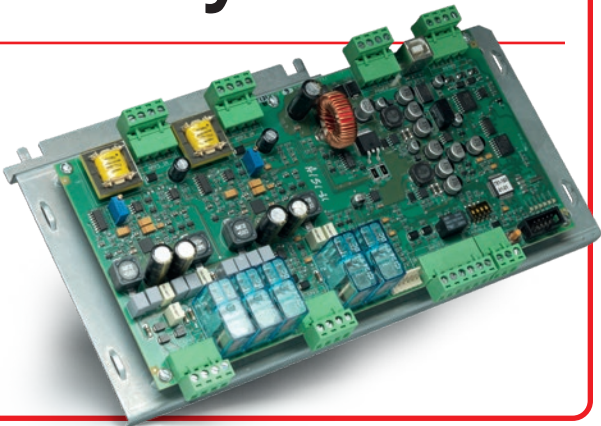


True Distributed Audio

- You can house our compact, efficient amplifiers in panels and command centers or in standalone units across each floor of a building.
- A unique option allows each amplifier to play messages from a fire panel or emit its own individual message so you have total control.
- Distributing amplifiers gives you greater design flexibility and ensures optimum performance.

Performance and Reliability

- Some audio systems have just one message generator – a weak point that can cause the entire audio system to malfunction.
- PerfectSync supports up to 2,300 independent amplifiers per 150-node network. Each has its own power supply and digital voice message generator – for total synchronization and peace of mind.
- Each amplifier has two 40W output channels that connect to 25V RMS speakers. A conversion kit is available for 70V RMS speakers.
- Amplifiers can be configured as 40W amps with backup. Should an internal trouble/fault on the amplifier occur, the backup amp will take control and maintain system integrity.



More Audio Options

There are many PerfectSync options to meet your needs:

- Up to 16 digital pre-recorded messages per amplifier.
- Individual message prioritization helps to achieve phased evacuation in larger buildings.
- A unique audio engineering test feature, accessed via the fire panel, confirms which amps are active, what message is playing, and allows you to select and play a message in a specific area.



Simple Setup

As you'd expect from Advanced, setup and configuration are straightforward:

- Amplifiers are pre-wired into Advanced command centers, which means minimal additional cabling.
- From the simplest to the most sophisticated – cause and effect is easy to program via a series of dropdown menus in the Amplifier Tool within our software.
- Options within the software make it easy to configure multiple command centers for peer-to-peer or master/slave control of the system.





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