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 200 nodes.

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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 33.3.2 of the UL864 standard requires that audio tones (ANSI S3.41 tone) be synchronized on defined ‘notification zone(s)’.

However, PerfectSync guarantees unrivalled intelligibility thanks to perfectly synchronized audio messages over networks of up to 200 nodes with 3,200 amplifiers. Occupant safety is 'job one'.

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

PerfectSync simplifies the work of the AHJ in insuring compliance with local codes. By intelligently reacting as conditions alter, PerfectSync rapidly re-synchronizes messages across multiple audio/evacuation zones, even on the largest networked systems.

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.
- Total synchronization is achieved even if the same message is played from different panels and/or amplifiers on a large network.
- All strobes are completely synchronized, network-wide.

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.

Distributed Voice System Installed

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

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.

True Distributed Audio

- You can house our compact, efficient amplifiers in panels and command centers in stainless steel cabinets across each floor of a building.
- A unique option allows each amplifier to play messages from a fire panel or from an independent message source that you have total control.
- Distributing amplifiers gives you greater design flexibility and ensures optimum performance.

More Audio Options

There are many PerfectSync options to meet your needs:

- Up to 16 digital pre-recorded messages per amplifier.
- Individual message prioritization via our DynamixTools software helps to achieve phased evacuation in larger buildings.
- A simple three-channel audio option for less complex environments lets you broadcast pre-recorded audio and announcements to live paging.
- A unique audio engineering test feature, accessed via the fire panel, confirms which amps are active, what message is in play, 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 drop-down menus in the Amplifier Tool within our DynamixTools software.
- Options within the DynamixTools software make it easy to configure multiple command centers for peer-to-peer or master/slave control of the system.

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 3,200 independent amplifiers per 200-node network. Each has its own power supply and digital voice message generator – for total synchronization and peace of mind.
- Each amplifier hosts two 40W output channels that connect to 25V RMS speakers. A separate kit is available for 70V RMS speakers.
- Amplifiers can be configured as 40W amps with backup. Should an internal trouble/silence occur on the amplifier, the backup amp will take control and maintain system integrity.
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