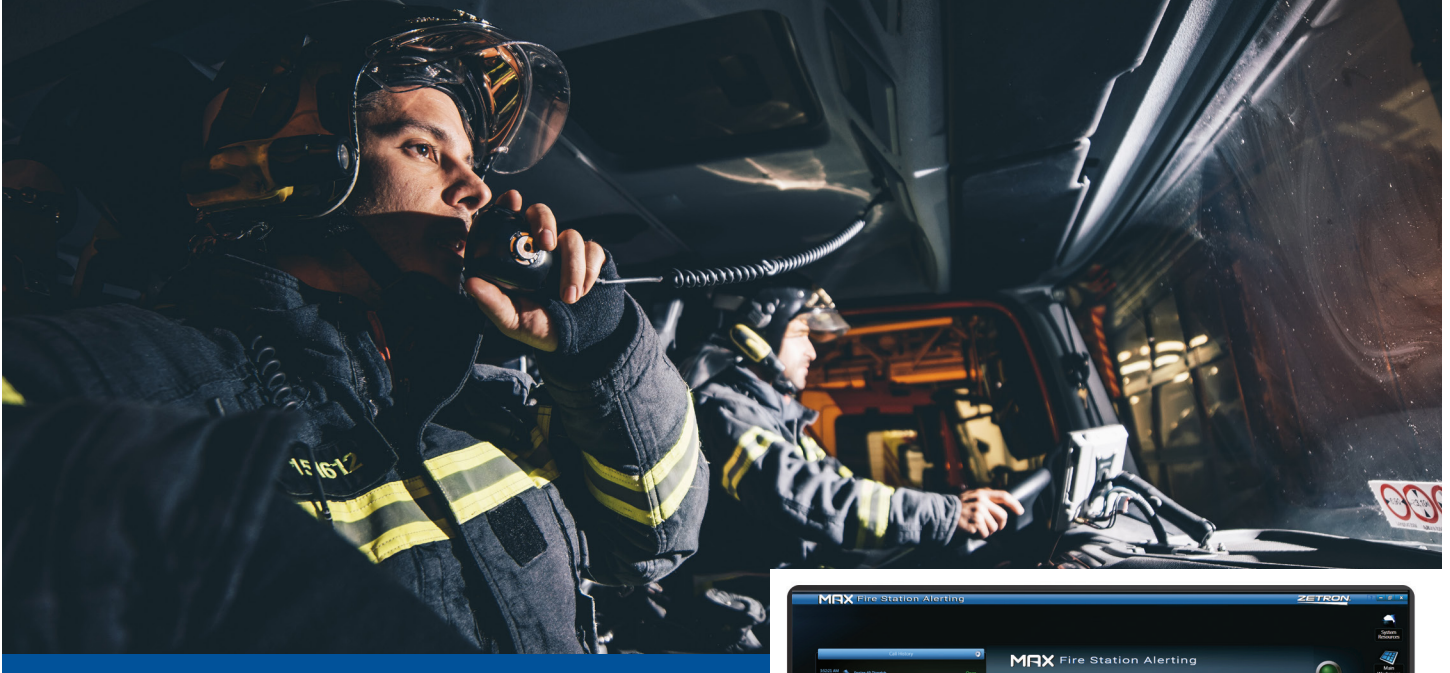# MAX Fire Station Alerting

Zetron's MAX Fire Station Alerting is a purpose-built communications and operational automation solution that can be deployed either standalone or as a component of a fully integrated MAX Systems mission critical communications platform. MAX Fire Station Alerting is IP-based, making it compatible with new construction building management technology systems, yet is equally capable of integrating with existing fire station Auxiliary Input/Output (Aux I/O) infrastructure.

MAX Fire Station Alerting delivers communications from a central site and is designed to support simultaneous multi-station alerting when integrated with any modern CAD system. It supports various communications and control capabilities within individual stations, including:

- Sensing alarm inputs
- Monitoring vehicle status
- Turning lights on/off
- Opening/closing/locking doors
- Turning fans, stoves, and other appliances on/off
- Sending alert tones and broadcasting dispatch messages over public address (PA)

MAX Fire Station Alerting is an innovative and highly configurable solution. With robust functionality and scalability necessary to meet the most complex requirements of metropolitan departments, its affordability and ease of use also make MAX Fire Station Alerting ideally suited for even the smallest single-station rural department applications.

Whether as a standalone alerting and automation solution, or as an integrated component of a full mission critical communications platform, MAX Fire Station Alerting has functionality and power to help emergency services personnel respond faster and arrive smarter.

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CAD Integration

Dispatchers can easily utilize new or existing CAD systems to activate MAX Fire Station Alerting functions. The MAX Fire Station Alerting CAD API makes it possible for users to control alerting functionality automatically and manage station apparatus availability from the same CAD system they're accustomed to navigating. For example, with station input, the CAD system will "know" a truck is out of service and automatically assign an available engine for deployment, freeing the dispatcher to handle other tasks. In addition, the MAX Fire Station Alerting CAD API enables CAD systems to automatically activate schemes based on the time of day or size of the incident.

Multiple Audio Paths

MAX FSA can alert single or multiple fire stations simultaneously through either VoIP, radio, or both, which speeds up the process of getting alerts and important dispatch and situational information out to stations and the first responders being deployed. Flexibility in how critical incident information is disseminated eliminates potential points of communication failure and lessens the impacts of system or device downtime.

Combined Dispatch and Fire Station Alerting

While MAX Fire Station Alerting can be deployed standalone and/or in conjunction with third party dispatch systems, it's seamless integration with other MAX solutions is evidenced in the common user interface and functionality that MAX Dispatch users are already familiar with. Integrating MAX Fire Station Alerting with other MAX Systems saves space and promotes ease of access/use for dispatchers.

Multiple Levels of Redundancy

MAX Fire Station Alerting has dual network connections throughout the system and hot standby capability, providing automatic failover in the event of a hardware failure. Any single point of failure can be eliminated with redundant MAX Central, MAX Radio Gateways (MRGs), and power supplies. MAX Fire Station Alerting can be configured with various levels of redundancy to meet the specific needs of each customer.

Secure Two-way Audio

Using the intercom support option, fire station personnel have a direct two-way audio option with dispatchers. Additional advanced communications capabilities between dispatch and field teams are also available when MAX Fire Station Alerting is used in conjunction with the Zetron CommandIQ™ mobile dispatch unit, which can provide up to full dispatch console functionality with a small portable footprint at stations and enable local control of the station's own Aux I/O controllers for bay doors, fans, lights, etc.

Control and Manage Fire Station Peripherals

Using remote Aux I/O devices with MAX Fire Station Alerting enables dispatch to monitor and poll the status of fire station units and facility controls, including station lighting, doors, appliances and alarm sensor inputs. MAX Fire Station Alerting supports monitoring and control of hundreds of types of I/O devices. In addition, MAX Fire Station Alerting's "Multi-Function Button" permits console positions to create complex Stacked Actions that automatically trigger and execute multiple consecutive commands as part of a standard/routine emergency alert and action sequence. For example, ordering I/O activation, pages, channel selection and channel keying can all be part of a stacked or timed sequence triggered from the MAX Fire Station Alerting console position. This enables fire personnel to get in route faster, and not have to worry about, "Who turned off the stove?"

Voice Logger Interface

The voice logger gateway outputs all activity from MAX Fire Station Alerting into a third party logging recorder for extraction to recreate the event communications later as/when needed. This also permits the auditing of response times as needed for compliance or certification purposes.

Modern User Interface

MAX Fire Station Alerting shares the same ergonomic, intuitive, and user friendly graphical user interface (GUI) as other MAX solutions. Designed specifically for busy multi-tasking communications center personnel, the MAX Systems shared GUI sets the industry standard for dispatcher ease of use and efficiency.

Zone Alerting and Lighting

The zone alerting capability in MAX Fire Station Alerting enables different notifications and information to be communicated to different sections of stations, so especially within large multi-team and/or multi-discipline stations, alerts can be tailored to specific personnel groups. For example, if a nighttime incident requires only EMTs, the dispatcher can notify only the EMT area within the station without disturbing resting personnel in other sections.

Radio Interface Integration

MAX Fire Station Alerting seamlessly interfaces with MAX Dispatch, so communications can occur through any of the major radio interfaces supported, including DMR Tier 2 & 3, P25 Trunked, and conventional. Additionally, linking to Kodiak and ESChat broadband PTT over Cellular applications is supported through the console interfaces of each solution. Many IP-based systems don't have the same ability to communicate over multiple or heterogeneous radio systems. When connected with third party dispatch console systems, MAX Fire Station Alerting has the radio network interface option for basic LMR call functions.

MAX Fire Station Alerting Core Features Include:

- Redundancy – hot standby, dual network connections
- Voice logger interface
- Multiple audio streams
- Programmatic scripting to automate preset sequential alerts as "stacked actions"
- CAD API available for seamless workflows
- Full-featured fire station alerting without CAD option
- Multi-function buttons available to activate fire station remote sensors
- Multiple alerting method options, including tones, pages, radio, prerecorded voice, and live dispatcher instruction
- Ability to connect dispatch center and fire station telephony via VoIP

CAD Interactions

- Support for CAD-controlled operations
- Natural language Text-To-Speech with multiple voice font choices
- Pre-recorded voice announcements
- CAD to station PA via Text-To-Speech CAD API
- CAD API option for CAD-initiated alerting preference
- Third party console audio input via the optional CAD API

MAX Dispatch Customer Benefits

- Guaranteed interoperability
- Available as an add-on feature of MAX Dispatch systems, expanding into full radio system controls

At the Fire Station

- Multiple zone lighting control (fade-in and multiple colors available where supported by lighting controller)
- Alerts with ramp-up tones (sourced from customer WAV files)
- LED reader board displays tones address
- Live voice announcements
- Multiple audio zones
- Garage bay and entry doors control and sensors
- Power controls for appliances
- Additional relay controls available for unique functions (e.g., sensor inputs)
- Day/night operations
- Field configurable with new construction or existing infrastructure
- Emergency notification from fire station occupants directly to dispatchers
- Supports Push-To-Talk (PTT) to station door intercoms and desktop option for self-dispatch of still alarms

MAX Fire Station Alerting is purpose-built on 40 years of Zetron's trusted and proven history as a mission critical solutions leader and is designed specifically to meet the extraordinary demands of modern fire departments of all types and sizes. MAX Fire Station Alerting extends Zetron's robust dispatching and communications capabilities into the fire station with additional alerting, acknowledgement, automation, and auxiliary I/O capabilities and features. Zetron is committed to providing cost effective fire station alerting and dispatching as an integrated, efficient, and interoperable solution.

For more information and to see how MAX Fire Station Alerting helps public safety agencies respond faster and arrive smarter, visit **https://www.zetron.com/mission-critical-solutions/max/fire-station-alerting/**.