



Locution
SYSTEMS INC.

Celebrating 20+ Years of
Fire Station Alerting Innovations

▶ **Improve
Response Times**

**Reduce Stress
for Dispatchers**

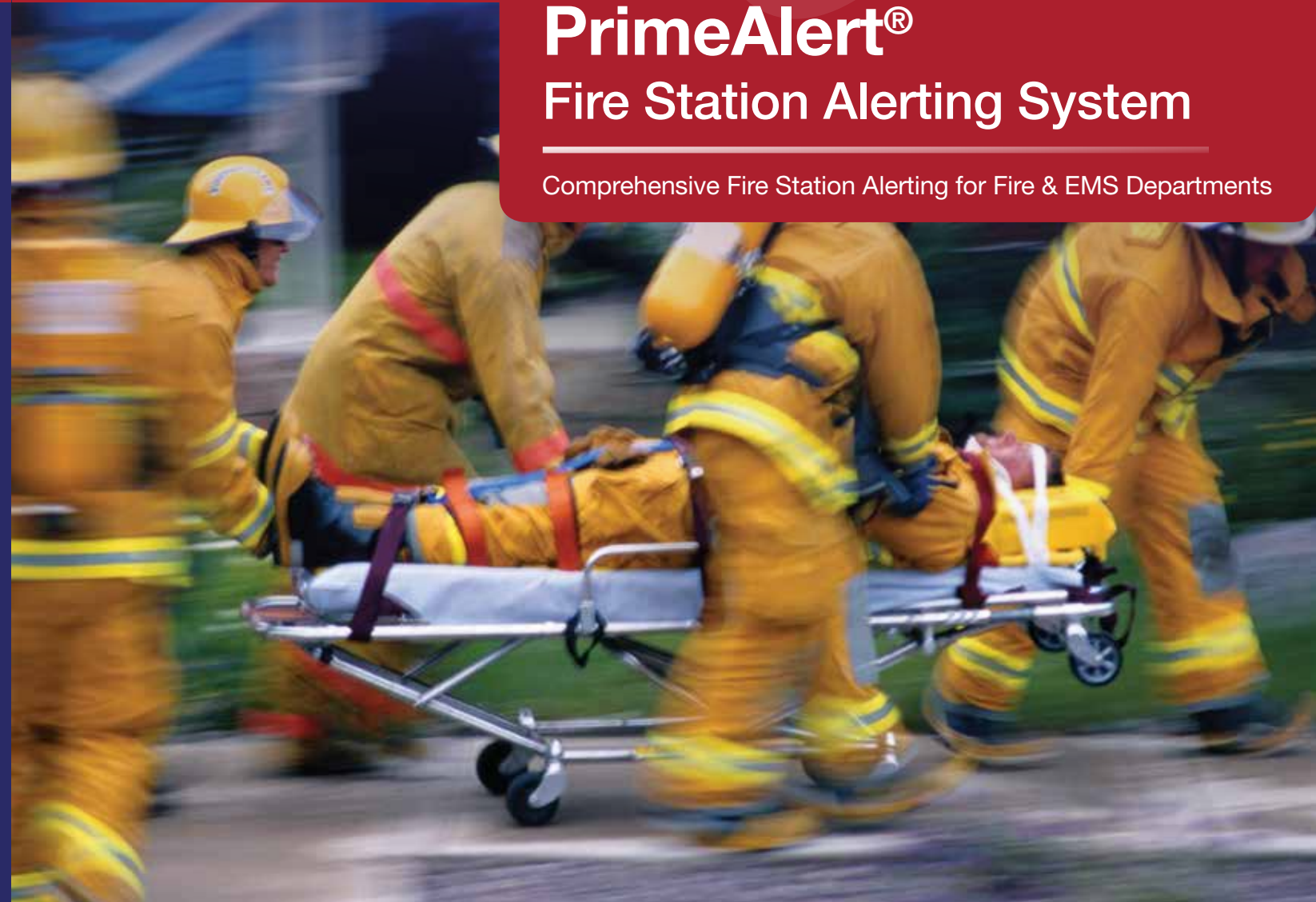
▶ **Reduce Stress &
Sleep Deprivation
for Responders**



Locution
SYSTEMS INC.

PrimeAlert® Fire Station Alerting System

Comprehensive Fire Station Alerting for Fire & EMS Departments



www.locution.com

Introduction

PrimeAlert® Fire Station Alerting System from Locution Systems, Inc.

Welcome to this overview of the **PrimeAlert® Fire Station Alerting System from Locution Systems, Inc.** We are experts and specialists in fire station alerting. Formally incorporated in 1993, Locution Systems has developed one of the most modular, flexible, and powerful fire station alerting systems on the market today.

The **PrimeAlert® Fire Station Alerting System from Locution Systems** is a modular station alerting system, so fire-EMS departments can pick and choose station alerting devices, and add more as time and budget allow.

PrimeAlert® offers:

- Automated Voice Alerting
- Visual Station Alerting (devices & lighting)
- Automated Mechanical Station Controls
- Zoned Station Alerting
- Audio Alerting (Zoning required)
- Maps & Apps

The **PrimeAlert® Fire Station Alerting System from Locution Systems** is proven in the field, and currently is serving and protecting more than 34 million people in the United States and Canada!

The benefits of the **PrimeAlert® Fire Station Alerting System from Locution Systems** are:

- Faster Response Times
- Reduced Stress for Dispatchers
- Reduced Stress & Reduced Sleep Deprivation for First Responders

**The PrimeAlert®
Fire Station Alerting System:
Comprehensive & Modular Station Alerting**

We welcome your questions, and would be happy to schedule an interview with our team of engineers & project managers, or a site visit. Contact Locution Systems at:
www.locution.com or 303.301.7300



Did you know?

The PrimeAlert® Fire Station Alerting System from Locution Systems is a comprehensive & modular station alerting system. Pick and choose the functions & devices that solve your most pressing problems.



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System at a Glance

CAD INTERFACES

- Alert CAD
- Caliber Computer Aided Dispatch
- CISCO Global CAD
- CMI Authority Safety CAD
- EmergiTech
- EnRoute
- Hexagon Computer Aided Dispatch
- Motorola Premier
- Motorola Premier 1
- New World
- Pro-Phoenix CAD
- PSSI
- Spillman Technologies, Inc.
- SunGard ONESolution Computer Aided Dispatch
- Trittech

OPERATING SYSTEMS

- Windows
- Linux (station only)

ALERTING DISTRIBUTION OPTIONS

- IP Network
- Radio (Standard or EMS-enhanced)
- Telephone
- Email
- Paging

AUTOMATED VOICE ALERTING OPTIONS

- Complete Human Voice (CHV)
- Approximated Human Voice (AHV)
- CHV-AHV Hybrid Voice

GLOBAL FUNCTIONS

- Call Categorization
- Greater Alarm
- Tone Management (includes Custom, HeartSaver & Ramped Tones programmable to unit or incident)
- User Management

STATION CONTROLS

- Automated Control of:
- Acknowledgement buttons/Doorbells
 - Apparatus bay doors
 - Gas stoves
 - Gates
 - Traffic lights

AUDIO ALERTING OPTIONS

- (Zoning required)
- Amplifiers
 - Speakers (various options for ceiling & wall)

VISUAL ALERTING OPTIONS

- Ramped, switched LED lighting systems
- LED monitors
- Multi-color LED indicator devices
- Reader boards
- Response timers

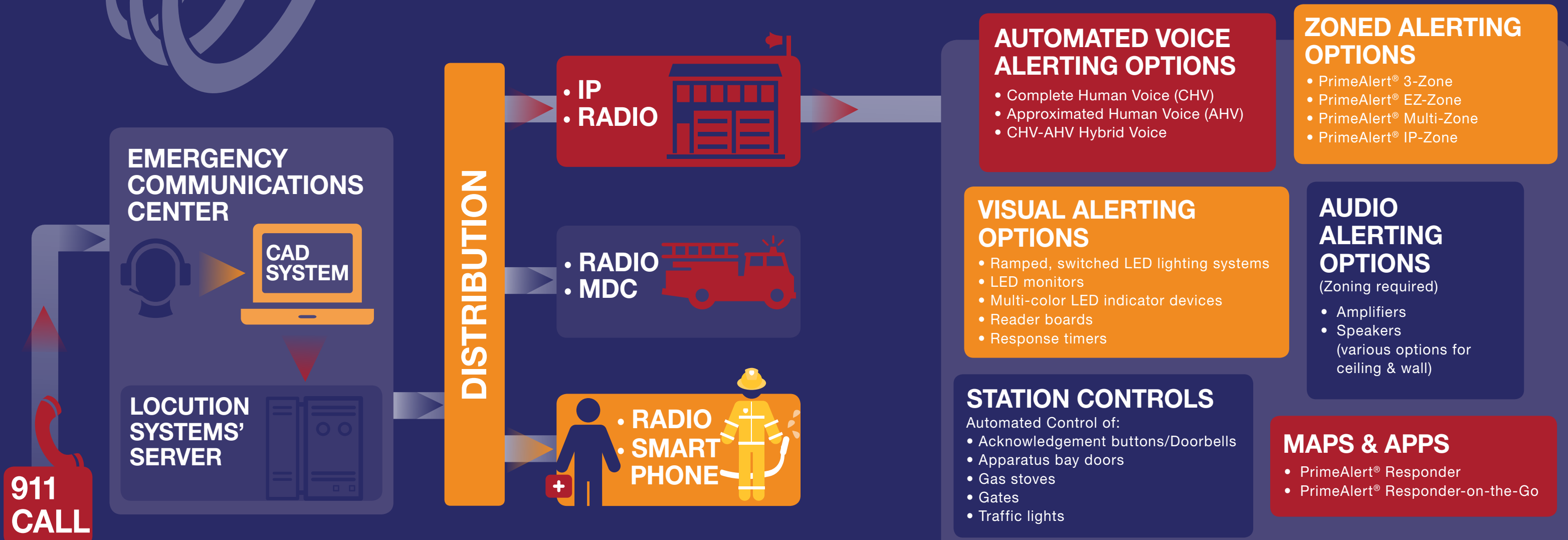
ZONED ALERTING OPTIONS

- PrimeAlert® 3-Zone
- PrimeAlert® EZ-Zone
- PrimeAlert® Multi-Zone
- PrimeAlert® IP-Zone

MAPS & APPS

- PrimeAlert® Responder
- PrimeAlert® Responder-on-the-Go

Fire Station Alerting Process



STEP 1

- The emergency communications center receives an emergency call (fire, EMS, accident, HazMat, etc.)

STEP 2

- A call taker or dispatcher enters the information into the department's Computer-Aided Dispatch (CAD) system.
- The CAD system recommends the best unit(s) to respond.
- The dispatcher reviews and commits the responding unit(s).

STEP 3

- Once the dispatcher has committed the responding unit(s), the CAD system sends the dispatch information to the Locution computer server in the emergency communications center.
- The PrimeAlert® Fire Station Alerting System takes over and automatically routes the dispatch information to the responding stations/units.

STEP 4

- Dispatch information can be routed to:
- Fire Stations (by IP or Radio)
 - Units in the Field (by Radio or MDC)
 - Individual Responders (by Radio or Smartphone)

STEP 5

- The PrimeAlert® Fire Station Alerting System offers a modular array of options for:
- Automated Voice Alerting
 - Visual Station Alerting
 - Station Controls
 - Zoned Station Alerting
 - Audio Alerting (Zoning required)
 - Maps & Apps

Two Product Options

Two Main Product Options:

- 1) PrimeAlert® IP
- 2) PrimeAlert® RADIO

Locution Systems' PrimeAlert® Fire Station Alerting System offers two complementary products, along with a variety of specific offerings in Automated Voice Alerting, Visual Station Alerting, Station Controls, Zoned Station Alerting, and Audio Alerting (Zoning required). Even before those technologies are considered, fire-EMS departments may opt for one or both of the core products, depending on the communication path they prefer, and how much system redundancy they want to deploy.



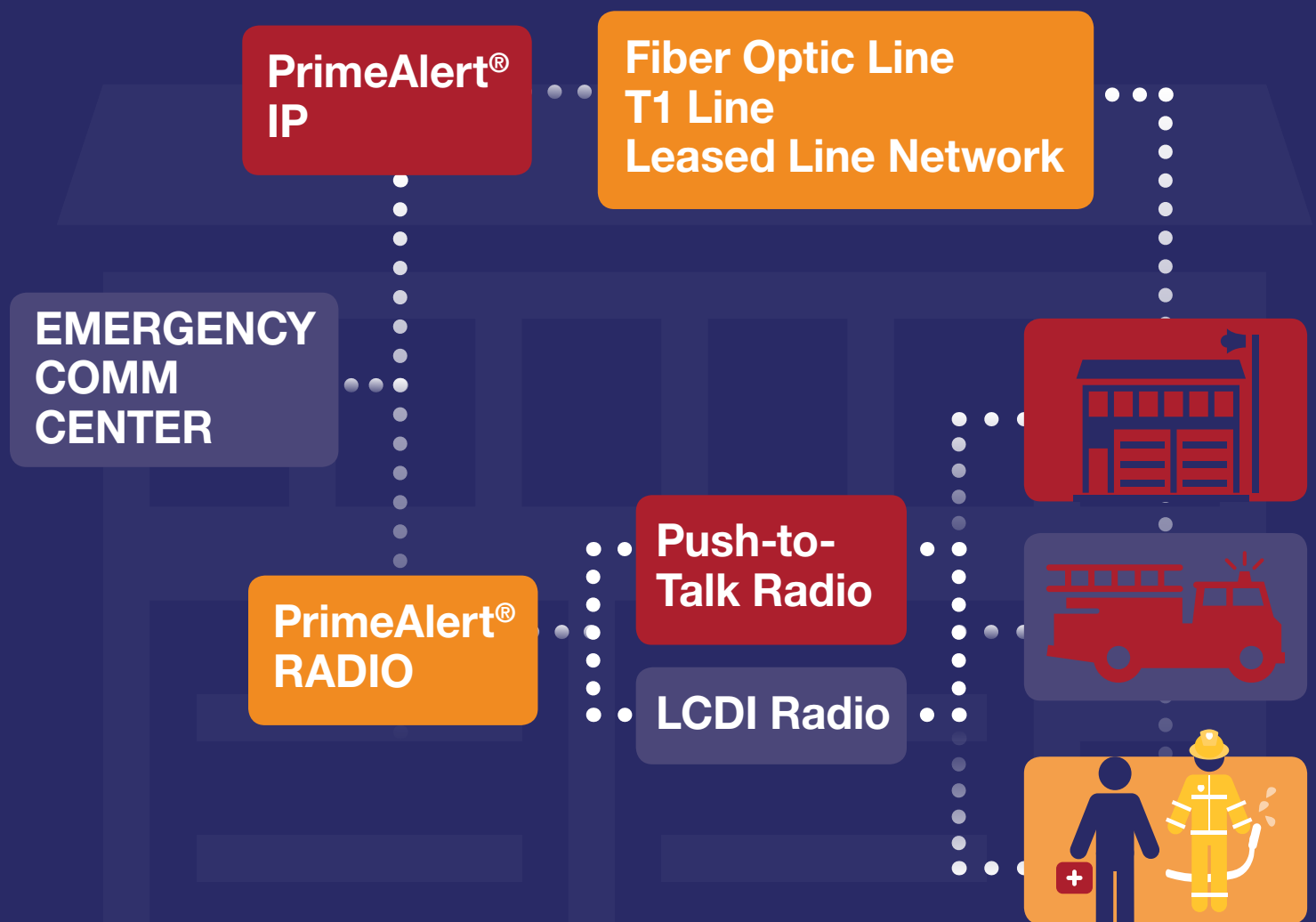
1) PrimeAlert® IP (IP-based station alerting)

PrimeAlert® IP is Internet Protocol Network-based alerting. Dispatch and alerting information travels along a high-speed IP network to the station, where a variety of alerting functions take place. PrimeAlert® IP often serves as the primary alerting path for dispatch & alerting information to the station.

2) PrimeAlert® RADIO (Radio-based station alerting)

Locution Systems' PrimeAlert® RADIO is available in two options: 1) Push-to-Talk radio alerting, and 2) PrimeAlert® LCDI Radio (Locution Console Data Interface) radio alerting. fire-EMS departments may use PrimeAlert® RADIO in either of two ways: **Primary Alerting Path, or Secondary Alerting Path.** Locution Systems has many deployments where the fire-EMS department uses PrimeAlert® RADIO as their primary alerting system. However, the most highly used deployment is using our PrimeAlert® IP-based alerting as the primary alerting path with PrimeAlert® RADIO as a secondary (redundant) alerting path to stations, and for units in the field. In addition, when departments use only one distribution method (IP or Radio alerting), a redundant alerting path must be added to ensure full NFPA 1221 compliance. PrimeAlert® RADIO interfaces with Motorola Gold Elite, MCC7500, and Harris radio systems.

Communication Paths





Comm Center Hardware

What's at the Comm Center? Server Hardware & Virtual Server

The “brains” of the **PrimeAlert®** Fire Station Alerting System is located in the emergency communications center, on an industry-standard computer server. (Virtual servers also supported.)

In the hierarchy of technology within an emergency communications center, the Computer-Aided Dispatch (CAD) system is king. The **PrimeAlert®** Fire Station Alerting system rides one level below the CAD system and relies on dispatch information from the CAD system to operate. Once an incident has been committed, the CAD sends dispatch information to **PrimeAlert®**, which automatically routes dispatch and alerting information to the responding unit(s).



PrimeAlert® Radio Console

For fire-EMS departments that deploy **PrimeAlert®** Radio, their radio console would have additional equipment from Locution Systems, including a small-footprint PC and additional software.



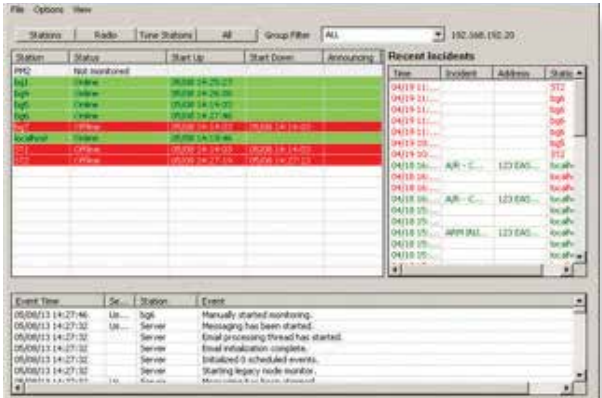
Two User Interfaces for PrimeAlert® Station Alerting

PrimeAlert® offers two main user interfaces: **PrimeAlert®** Administrator (for system administration by technical staff) and **PrimeAlert®** Dispatcher (for use by dispatch managers and dispatchers).

User Interfaces

PrimeAlert® Administrator – System Administration Interface

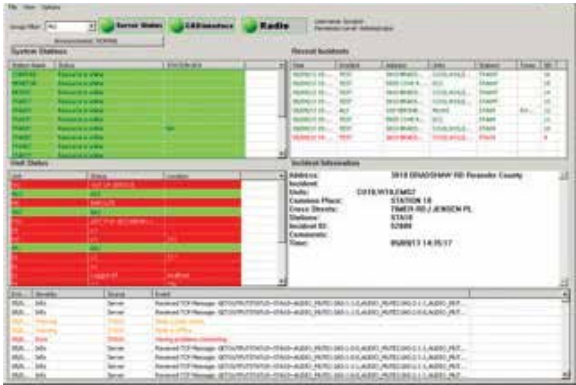
The system administration interface for Locution's **PrimeAlert® Fire Station Alerting System** is a user-friendly, industry-standard interface that features color-coding, pull-down menus, and click boxes.



The PrimeAlert® Fire Station Alerting interface for system administrators features a familiar, easy-to-use, graphical user interface.

PrimeAlert® Dispatcher – Dispatcher Interface

The dispatcher interface for the **PrimeAlert® Fire Station Alerting System** from Locution Systems features a user-friendly interface with color-coding, pull-down menus, click boxes, and other standard navigation features. In addition, many dispatch centers simply run the dispatcher interface in “background mode,” i.e. they don’t watch the screen. This is because the **PrimeAlert® Fire Station Alerting System** will automatically activate the screen and show a pop-up message if a dispatcher needs to take a specific action.



The dispatcher interface of the PrimeAlert® Fire Station Alerting System is easy to use, color-coded, and features standard navigation including pull-down menus and click boxes.

Hardware at the Station

The core (basic) system of **Locution Systems' PrimeAlert® Fire Station Alerting System** at fire-EMS stations includes the system enclosure; an off-the-shelf, small-footprint PC; Station Control Unit; Intelligent Audio Switch; and relay PLCs. Beyond the core system, departments can choose additional options in Audio, Visual & Zoned Alerting, plus fire station control technologies.



PrimeAlert® System Enclosure

The hardware that drives the **PrimeAlert® Fire Station Alerting System** at the fire station is contained in enclosures that can be locked. A core (basic) system uses one enclosure. The addition of zoned alerting functionality requires an additional enclosure. These fire station alerting enclosures can be wall-mounted or rack-mounted.



Locution Systems' sturdy metal enclosures for fire station alerting hardware can be wall mounted or rack mounted. Enclosure dimensions are 24" tall x 16" wide x 6 1/2" deep.

Small-Footprint Personal Computer

A small-footprint personal computer serves as the "brains" of the **PrimeAlert® Fire Station Alerting System** at fire stations. This small-footprint PC resides in the system enclosures, along with other equipment. These PCs are standard, off-the-shelf, small-footprint PCs roughly the size of a shoebox. Of note, 85% of the hardware used to drive **Locution Systems' PrimeAlert® Fire Station Alerting System** is affordable, off-the-shelf hardware. This emphasis on using off-the-shelf hardware whenever possible makes the **PrimeAlert® Fire Station Alerting System** a cost-effective choice for fire-EMS departments.



Affordable, off-the-shelf, small-footprint PCs serve as the "brains" of the PrimeAlert® Fire Station Alerting System at fire stations. This small-form-factor PC fits inside the PrimeAlert® System Enclosure.



PrimeAlert® Station Control Unit (SCU)

This compact dedicated hardware unit balances fire station audio. In addition, SCU hardware provides the capability of conducting in-station audio tests with the press of a button. The SCU also provides four relays, and controls the Intelligent Audio Switch (IAS).



PrimeAlert® Station Control Unit. SCU not shown to scale; SCU fits inside the PrimeAlert System Enclosure.

PrimeAlert® Intelligent Audio Switch (IAS)

The **PrimeAlert® Intelligent Audio Switch (IAS)** provides supplemental audio control capabilities that many amplifiers can't perform. The **PrimeAlert® Intelligent Audio Switch** has three main functions:

1. Muting of up to 3 audio channels when Locution audio is providing voice alerting.
2. Automatic detection of pre-existing external tones that are sounding and then waiting until the tones are done before vocalizing the voice alert.
3. Additional relays control appliances and devices in the station, if they are not needed for additional control of audio.



PrimeAlert® Intelligent Audio Switch. IAS not shown to scale; IAS resides with amplifier at the station.

PrimeAlert® Programmable Logic Controller (PLC)

These cost-effective, off-the-shelf Relay PLCs automatically open and close apparatus bay doors and gates, turn on/off lights, control traffic signals, turn off gas stoves, activate fans, and monitor station devices such as acknowledgement buttons, still alarm controls, test buttons, door bells, fire alarms, and CO sensors.



PrimeAlert® PLC. PLC not shown to scale; PLC fits inside the PrimeAlert System Enclosure.

Global Functions

The **PrimeAlert® Fire Station Alerting System** offers powerful, standard global functions including Call Categorization, Greater Alarm, Tone Management & User Management.

PrimeAlert® Call Categorization

Call Categorization is a feature within the **PrimeAlert®** system that allows for special dispatch announcement ordering, tone creation, and message routing based upon a particular categorization of the call. Dispatch messages can be categorized based upon specific incident types, priority, alarm level or any other field of information received from CAD into the PrimeAlert® system.

An example is a call for a **Structure Fire**. When a call with this incident type is received, the announcement order can be changed, such as moving the incident type to the beginning of the announcement to signify this is a more urgent event than normal.

Another example is a call for a **Dangerous Building**. When this type of call comes in, an additional phrase such as 'Warning — this is a dangerous building' is added to the end of the dispatch message.

Sensitive calls are also supported with **Call Categorization**, where call types such as 'Bomb Threat' and 'Terrorist Threat' can automatically be dropped so that dispatchers can alert the emergency personnel in a less broadcasted methodology.

PrimeAlert®
Global Functions
Call Categorization

PrimeAlert® Greater Alarm

PrimeAlert® Greater Alarm Notification function provides a way to notify fire stations and responding teams that are not on the immediate dispatched call, usually for purposes for warning or assistance.

Though this can be used for any incident type, the most common instance where this is used is on **Structure Fires**, especially when escalated. As an example, when a structure fire occurs, the main dispatched stations receive their normal dispatch announcement, and the system can be setup so that all other stations or stations in the immediate area get an announcement alerting them, such as 'Notification: Structure Fire has been dispatched for 123 S Main'. Though these additional stations may not currently be dispatched on this call, they may be added to this call in the near future.

Additionally, stations and announcement alterations can be made upon each escalation. For instance, it may be decided that no notification announcement be made on the first escalation of alarm level, but must be made on all subsequent escalations.

Another example of where this function can be used is if a station is understaffed (**Station 9 in this example**). When Station 9 is dispatched, the adjacent stations are always notified with a special message, such as 'Station 9 is dispatched on a call to 123 S Main for a Cardiac Arrest.' This allows the adjacent stations to decide whether or not to assist or to know there may be a later need for them to respond.

PrimeAlert®
Global Functions
Greater Alarm

PrimeAlert® Tone Management

PrimeAlert® Tone Management allows **fire-EMS** departments to pre-define which alerting tones will correspond with specific incidents, units, special tones for sensitive dispatches, and other station alerting needs.

Station alerting tones available through the **PrimeAlert® Fire Station Alerting System** include:

- Locution-defined standard tones, including many heart-saver/ramped tones
- Custom tones (any non-copyrighted tone that can put into wav file structure can be created and used)

PrimeAlert® Tone Management can be organized according to each **fire-EMS** department's preferences and operational protocols based upon information received from CAD. The most common use of Tone Management is to differentiate between Fire calls and Medic calls. Any other information, such as unit type, can be used to differentiate alert tones, and as many tone categories as needed can be defined.

PrimeAlert®
Global Functions
Tone Management

PrimeAlert® User Management

The purpose of **PrimeAlert® User Management** is for **PrimeAlert®** system administrators to define permission levels for **PrimeAlert®** system users. The permission level defines control capability that **PrimeAlert®** system users can have, and secures access to the **PrimeAlert®** system.

Once **PrimeAlert®** system users have their roles and control capabilities defined by system administrators, they have specific system control capabilities that will be defined by their user name, nickname, password, and password confirmation.

Four Levels of PrimeAlert® User Management

- **Administrator** – An Administrator designation is for **PrimeAlert®** technical administrators. This type of user has access to system configuration and system management functions.
- **Supervisor** – A Supervisor designation is the second highest level of system access.
- **Dispatcher** – A Dispatcher designation is for dispatchers to control basic system functions needed in the role of dispatching, including switching between Normal or Abridged mode for radio dispatching, manual voice announcements, updating unit status, and more.
- **Guest** – A Guest designation is able to observe the **PrimeAlert®** system but not control the system.

PrimeAlert®
Global Functions
User Management



Ramped Lighting & Tones

PrimeAlert® Ramped Lighting & Tones

Ramped fire station lighting and alerting tones from the

PrimeAlert® Fire Station Alerting System help preserve the health and well-being of emergency responders. Ramped fire station lighting and ramped alerting tones start with low-intensity light and/or low volume, and slowly ramp up to brighter light and increased volume for audio alerting. The goal of this fire station alerting technology is to wake responders gently without putting them into heart-pounding, adrenaline-surging, fight-or-flight mode.

It's now known that the piercing klaxons and bright lights that were traditionally used to wake up emergency responders are harmful. Chronic exposure to fight-or-flight stress results in many health problems for first responders. When this fight-or-flight response is initiated again and again, night after night, the human body experiences health problems.



PrimeAlert® Global Functions Ramped Lighting & Tones

Medical research shows that the effects of chronic, intermittent stress cause the following health issues:

- Increased heart rates & heart disease
- Increased blood pressure
- High cholesterol (from cortisol overload)
- Reduction in size of the hippocampus area of the brain (learning & memory center)

Ramped fire station lighting and ramped alerting tones available through the **PrimeAlert® Fire Station Alerting System** are designed to reduce stress for first responders, and help maintain their health and wellness.



The **PrimeAlert® Fire Station Alerting System** offers many extra features and functions, including Ramped Lighting & Tones, and Mobile Interfaces.

Maps & Apps

PrimeAlert® Fire Station Alerting Maps & Apps

PrimeAlert® mapping and mobile app technology extends the power of **PrimeAlert®** station alerting. With this mapping and mobile app technology, first responders can receive emergency dispatch information via their smartphones and tablets, as well as have access to at-a-glance mapping information in fire stations.

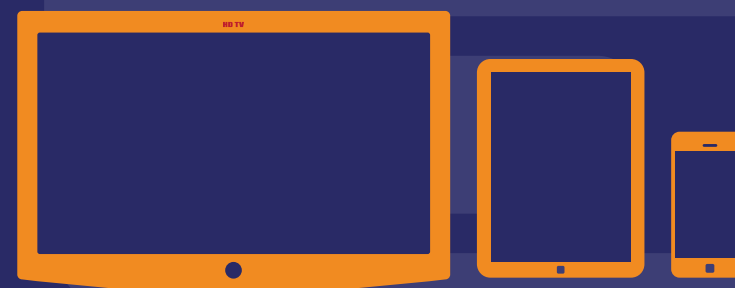
PrimeAlert® Responder and Responder On-The-Go both provide precise location information to responders in a very intuitive satellite or map format. Each new dispatch that comes in smoothly transitions the display from the present dispatch location to new dispatch location showing all geographic information as the change in position occurs.

PrimeAlert® Responder

PrimeAlert® Responder provides at-a-glance dispatch and mapping information on monitors mounted in the station. All dispatch information, incident location on the map,



PrimeAlert® Extras PrimeAlert® Responder



and location street view are displayed together on the screen for each new dispatch. Incident location on the map can be displayed in either satellite imagery or map imagery, and any number of monitors can be placed in the station, based on your department's preferences.

PrimeAlert® Responder On-The-Go

PrimeAlert® Responder On-The-Go is the mobile app version of the **PrimeAlert®** Responder application working both on smart phones and tablets. In this version, a very intuitive swipe interface is used to transition between the latest and prior dispatches, as well as one touch operation to use your device's location application for driving directions between your current location and the dispatch location.

One touch buttons allow for satellite imagery vs map imagery, initial zoom into higher zoom and back, street view image of the structure/location, and ability to save a dispatch for later review.

This app also provides a list view of prior dispatches displayed one-by-one, and has a search function where dispatches can be searched by various field options.



PrimeAlert® Extras PrimeAlert® Responder On-The-Go

The **Locution Systems PrimeAlert® Fire Station Alerting System** offers the most advanced, automated public safety voice alerting on the market today. Locution Systems was founded as a station alerting technical consulting firm in 1986, culminating in providing one of the first, off-the-shelf station alerting systems for Las Vegas. In 1993, Locution Systems incorporated and introduced its advanced automated voice alerting technology.



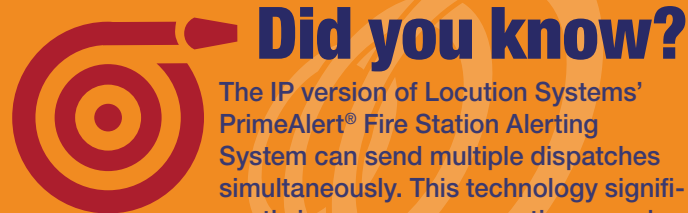
Automated Voice Alerting

What is Automated Voice Alerting?

Automated voice alerting for public safety separates the vocalization of the dispatch from the 911 dispatchers. Instead, the **PrimeAlert® Fire Station Alerting System** uses a clear and understandable automated human voice to vocalize dispatches to alert responding fire-EMS units. The **PrimeAlert®** system vocalizes the FULL dispatch, i.e. unit number, incident type, full street address, and nearby landmarks.

Benefits of Automated Voice Alerting

- Reduced stress for emergency communication center dispatchers
- Ability to handle more call volume with the same dispatching staff during normal volume, and times of high call volume
- Dispatchers/Call Takers are freed up from repetitive tasks to handle other critical responsibilities such as staying on the phone with distraught callers and conferring with responders during emergencies



Did you know?

The IP version of Locution Systems' PrimeAlert® Fire Station Alerting System can send multiple dispatches simultaneously. This technology significantly improves response times, and can dramatically reduce call stacking during times of high call volume.

1) PrimeAlert® — CHV (Complete Human Voice)

- The clearest, most understandable voice alerting technology on the market today
- Uses a pre-recorded, word/phrase audio database with built-in inflection for a natural sound
- Provides a highly understandable automated voice at time of delivery
- This voice technology has been developed specifically for public safety voice alerting applications
- This technology is ONLY available through Locution Systems

2) PrimeAlert® — AHV (Approximated Human Voice)

- A pliable, trainable alerting voice that approximates a human voice using a collection of small human vocal elements trained by your department, and for your department's needs
- Provides an unlimited number of sound combinations
- Does not require voice talent for additional recordings to update the audio database
- The **PrimeAlert®** AHV Voice Editor allows for pronunciation or accent updates

3) PrimeAlert® — CHV-AHV (Hybrid Voice)

- **PrimeAlert®** CHV-AHV Hybrid Voice is automated voice alerting technology that combines the clarity of the CHV voice with the flexibility of the AHV voice.

How PrimeAlert® Automated Voice Alerting Works

Three Simple Steps

1

Once the dispatcher has committed a unit, the CAD system sends the dispatch data to the Locution Systems **PrimeAlert®** Server in the emergency communications center.

2

The **PrimeAlert®** System Controller Software takes over and routes the dispatch information via a high-speed IP network, or via the department's radio system. Dispatch information is routed in text form to keep the data packet size small, which results in a very fast transmission.

3

Once received by the radio or the fire-EMS station PC, an automated voice dispatch is created. The IP version of the system is capable of simultaneous dispatching, i.e. the system can send multiple dispatches to multiple fire-EMS stations in fractions of a second.



Did you know?

Locution Systems' PrimeAlert® Radio can automatically abridge radio dispatches when the dispatch queue hits a pre-specified threshold to get the dispatches out faster. When the queue has emptied, PrimeAlert® Radio can automatically switch back from abridged to full dispatch mode.

Locution Systems' PrimeAlert® Fire Station Alerting System offers an array of visual alerting devices. These devices provide immediate visual cues as to specific responding unit being dispatched, before or as the vocalized dispatch is coming through.



Fire Station Alerting Visual Display Devices

PrimeAlert® Reader Board

What Is It? LED Reader Board that can be configured to display and scroll dispatch information, unit status, and response timer information.
Location: Common areas of the station, workout rooms, apparatus bay



PrimeAlert® Response Timer

What Is It? Digital timer that displays the length of time it takes a unit to turn out. Available in 2-digit or 3-digit models. Ambient light correction capabilities (gets brighter in bright light situations for maximum visibility). Can be synchronized with audible progress tones. Configured to count up or count down, with or after the dispatch.
Location: Apparatus bay



PrimeAlert® LCD Monitor

What Is It? Large-screen LCD for the PrimeAlert® Responder interface. Displays dispatch information & mapping information.
Location: Common areas of the fire station, areas of natural traffic such as near stairs



Visual Alerting – Displays



PrimeAlert® ZoneTracker™ Touchscreen

What Is It? Touchscreen used with PrimeAlert® zoning. Responders use the touchscreen to “tell” the PrimeAlert® Fire Station Alerting System the dorm where they’ll be sleeping. Can be configured for different user levels.
Location: Officer’s quarters and common areas of the fire station



PrimeAlert® Rip & Run Printer

What Is It? High-speed thermal printer capable of printing at speeds of 300mm per second. Can be configured to print any information in the PrimeAlert® dispatch.
Location: Hallway leading to apparatus bay



Did you know?

Locution Systems' PrimeAlert® Fire Station Alerting System serves the busiest fire station in the nation: the Clark County Fire Station 18 that serves the Las Vegas Strip.



When it comes to fire station alerting, there are two distinct types of lighting:
1) lighting for illumination, and **2) lighting for alerting**. Lighting for illumination is purely to help responders navigate safely and quickly to the apparatus bay when going on calls after dark. Lighting for alerting is to quickly cue responders.

Visual Alerting – Station Lighting

Fire Station Alerting Station Lighting for Illumination

PrimeAlert® Night-Vision Illuminator – Wall Mount (NVI)

What Is It? Wall-mounted red LED light that can be either switched or ramped and is network addressable. These ultra-high-efficiency, wall-mounted lights illuminate hallways and egress areas after dark. Monochromatic red lights preserve night vision.
Location: Bunk rooms, hallways, fire pole areas

PrimeAlert® Night-Vision Illuminator – Recessed (NVR)

What Is It? Ceiling-mounted monochromatic red light that can be either switched or ramped and is network addressable. Preserves night vision. Helps responders navigate to the apparatus bay quickly and safely.
Location: Bunk rooms, hallways, fire pole areas



Locution Systems' PrimeAlert® Fire Station Alerting System Night-Vision Illuminator lights "wash" the entire hallway with monochromatic red light for optimal visibility after dark while preserving night vision.



Fire Station Alerting Station lighting for Alerting

PrimeAlert® Multi-Unit Indicator Light – Wall Mount

What Is It? A unit color indicator device that is wall mounted. Provides 180 degrees of visibility. Available in 3-, 4- or 5-color models. Provides an immediate visual cue, by color, for which unit is being dispatched.
Location: Day rooms, common areas, workout rooms, areas with high noise where a visual cue is needed



PrimeAlert® Multi-Unit Indicator Light – Ceiling Mount

What Is It? A unit color indicator device that is ceiling mounted. Displays colors in a stacked cylinder. Available in 3-, 4- or 5-color models. Provides an immediate visual cue, by color for which unit is being dispatched.
Location: Day rooms, common areas, workout rooms, areas with high noise where a visual cue is needed



PrimeAlert® Strobe Light – Wall Mount

What Is It? Wall-mounted strobe light. Available in indoor & outdoor models. Manually adjustable candela intensity levels.
Location: Indoor fire station areas with high-noise levels



PrimeAlert® Strobe Light – Ceiling Mount

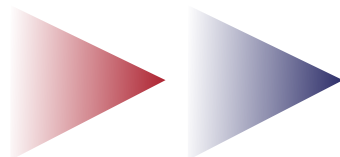
What Is It? Ceiling-mounted strobe light. Available in indoor & outdoor models. Manually adjustable candela intensity levels.
Location: Indoor fire station areas with high-noise levels





Station Controls

Locution Systems' **PrimeAlert® Fire Station Alerting System** provides an extensive array of fire station control technologies. Control of these devices can be tied specifically to a dispatch, a specific time of day, or some other specific event that requires station controls in the station to respond. Using relays from various **PrimeAlert®** system devices and/or Programmable Logic Controllers, **PrimeAlert®** can automatically control the following appliances and devices in a station.



Automated Control of Traffic Lights Outside the Fire Station



Automatic Opening & Closing of the Fire Station's Apparatus Bay Doors



Automated Station Doorbells & Acknowledgement Buttons



Did you know?

Locution Systems understands the different needs of various regions of North America, with installations in every corner of the U.S. (Seattle, Oceanside, Milford & Palm Beach); the Midwest (Chicago, Indianapolis); the South (Austin, Dallas, Nashville & Mobile); as well as the expansive regions of Canada (from Vancouver in the west to Toronto in the east).



Automatic Shut-Off of Gas Stoves



Automatic Control of Gates



Zoned Fire Station Alerting

PrimeAlert® Zoned Fire Station Alerting provides multiple options for zoned dispatching and alerting within fire stations, for the purpose of reducing sleep deprivation for first responders.

Zoned Fire Station Alerting Minimizes Sleep Deprivation

What is Zoned Fire Station Alerting?

Zoned alerting occurs when the fire station alerting system routes dispatch information and alerting functions directly to and only to the responding unit — allowing other responders in the station to sleep through the night.

What are the Benefits of PrimeAlert® Zoned Fire Station Alerting?

The main benefit of zoned fire station alerting is to mitigate the negative effects of sleep deprivation for first responders.

Medical research from one of the most respected medical research databases in the United States revealed the following negative effects of sleep deprivation:

- General decreased brain activity
- Impaired working memory
- Higher risk of errors
- Impaired learning ability
- Impaired immune system
- High blood pressure
- Depression & heightened anxiety
- Impaired cardiovascular & endocrine system function
- Genetic damage in blood and brain cells
- Accelerated cellular aging
- Sudden cardiac death

Medical research also shows that the longer you go without sleep, the harder it is to return to normal sleep patterns. Locution Systems’

PrimeAlert® zoned alerting technologies are designed to mitigate sleep deprivation for first responders.



A chronically exhausted first responder is more prone to illness, according to many medical studies.

Four Options for PrimeAlert® Zoned Fire Station Alerting

PrimeAlert® Zoned Alerting

PrimeAlert® 3-Zone: A simplified, base-level version of zoned alerting that routes the dispatch and alerting functions to three designated areas within the station. This option does not provide true zoning capabilities, nor can it make use of the “absolute quieting” technology.

PrimeAlert® EZ-Zone: PrimeAlert® EZ-Zone zoned alerting offers more zoned positions than 3-Zone, with up to 12 positions available for zoning within fire stations. PrimeAlert® EZ-Zone features a streamlined design that requires only one PrimeAlert® System Enclosure in each fire station.

PrimeAlert® Multi-Zone: PrimeAlert® Multi-Zone is the most high-capacity zoned alerting option offered by Locution Systems. PrimeAlert® Multi-Zone provides up to 24 different positions for standard zoned control within fire stations.

PrimeAlert® IP-Zone: PrimeAlert® IP-Zone is a unique, cost-effective approach to zoning that can be deployed for aging fire stations, or in situations where just one more zone is needed. IP Zoning utilizes individual PCs with IP addresses per bunk area, which eliminates the extensive wiring requirements for a more traditional zoned station alerting system design.



Did you know?

The negative effects of sleep deprivation range from impaired immune, cardiovascular & endocrine systems to impaired brain function and accelerated aging of cells.

Locution Systems offers a variety of audio alerting for fire stations, and the audio systems can be deployed in three ways: **1)** Use the station's existing PA system; **2)** Use a **Locution Systems PrimeAlert® Audio System** built from the ground up for the station; or **3)** Use a hybrid sound system with existing audio equipment and new equipment from Locution Systems.



Locution Systems' PrimeAlert® Fire Station Alerting System offers the latest technology in digital signal processing, which means amplifiers have remote access for diagnostics, maintenance, and control.

Locution Systems' audio offerings also have “absolute quieting” — a critical technology that eliminates clicks, pops & hisses from the speaker.

Fire Station Alerting Audio Equipment

PrimeAlert® Focused Speaker

What Is It? A focused speaker that provides individually controlled, directional audio. Locution Systems' focused speaker is the premier speaker for zoned alerting because it can focus audio alerting in specific areas.

Location: Dorm rooms



PrimeAlert® Near-Field Speaker

What Is It? These wall-mount baffle speakers provide superior sound quality and highly understandable audio by washing a specific area with sound. These speakers work equally well for indoor or outdoor use. Available in black or white.

Location: Apparatus bays, poor acoustical environments, outdoor patios



PrimeAlert® Ceiling Speaker

What Is It? Round speakers recessed into the ceiling. These speakers provide excellent sound quality. Optional volume control available.

Location: Egress areas (hallways, stairways, dorm rooms)



PrimeAlert® Horn Speaker

What Is It? Exterior speaker for audio alerting outside the fire station. Weatherproof.

Location: Outside the fire station



PrimeAlert® Volume Control

What Is It? A volume control that can be connected to speakers to provide individual volume control of speakers in the fire station.

Location: Anywhere a speaker is located



PrimeAlert® DSP Amplifier

What Is It? An amplifier that provides 2 x 120-watt channels, and eight inputs with configurable priority muting. Provides ambient noise sensing, computer control & monitoring, and configurable volume control. Many other amplifiers available.

Location: IT room at fire station



PrimeAlert® Ambient Noise Sensor

What Is It? An audio sensing device tied to speakers that can sense ambient noise and then automatically adjust the speaker volume.

Location: Apparatus bays & other noisy environments



Fire Station Schematic

- 1 Ambient Noise Sensor
- 2 Amplifier-DSP
- 3 Volume Control
- 4 Fire Station Doorbell
- 5 Intelligent Audio Switch
- 6 LCD Monitor
- 7 Night Vision Illuminator-Ceiling Mount
- 8 Night Vision Illuminator-Wall Mount
- 9 Reader Board
- 10 Response Timer
- 11 Rip & Run Printer
- 12 System Enclosure
 - Station Control Unit
 - Programmable Logic Controller
- 13 Ceiling Speaker
- 14 Focused Speaker
- 15 Horn Speaker
- 16 Near-Field Speaker
- 17 Strobe-Ceiling Mount
- 18 Strobe-Wall Mount
- 19 Multi-Unit Indicator-Ceiling Mount
- 20 Multi-Unit Indicator-Flush Mount
- 21 ZoneTracker™ Touchscreen





Customer List

Locution Systems has been in business since 1993, and we have amassed a wide array of customers throughout the United States and Canada.

The **PrimeAlert® Fire Station Alerting System** works equally well for small, medium & large fire-EMS departments and is serving and protecting more than 34 million people.

24/7 Tech Support is Standard

Locution Systems also provides excellent support for our customers. We provide technical support to these customers 24 hours a day, 7 days a week as our standard practice.

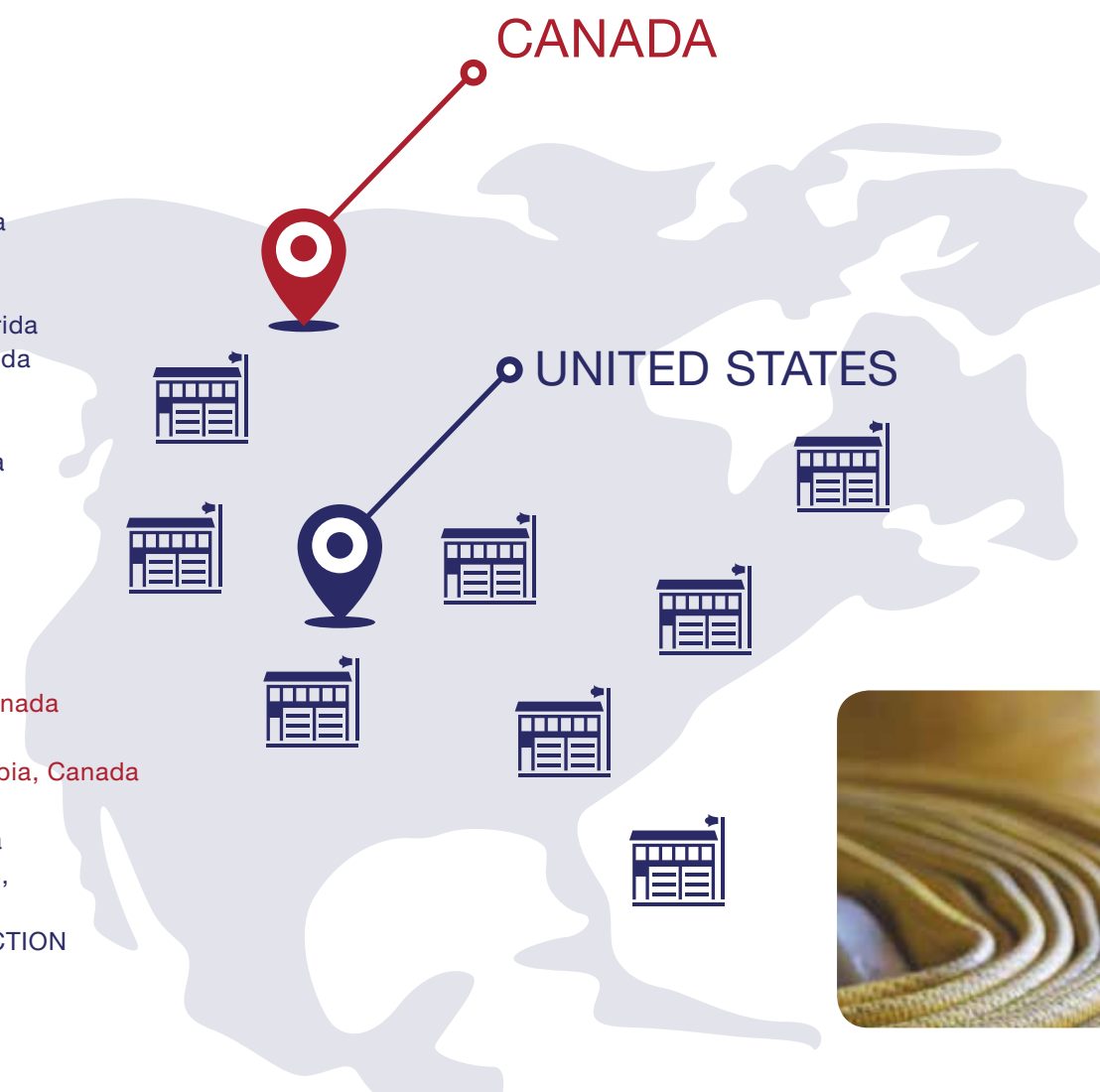
Our Customers are our Partners

We also see our customers as partners in developing helpful new features and functions to enhance the **PrimeAlert® Fire Station Alerting System**. In fact, there are quite a number of new features and functions now incorporated into our fire station alerting system that either came from customer requests, or customer suggestions and brainstorm.

We welcome new customers into the Locution Systems family every year, and we strive to take care of all of them, new or long-time customers, with a passion for excellence, and a passion for helping save lives & property, and keeping dispatchers and responders healthy.

Customer Highlights:

- ALAMEDA COUNTY, California
- AMARILLO, Texas
- AMES, Iowa
- ANCHORAGE, Alaska
- AUSTIN, Texas
- BAYSIDE, Wisconsin
- BELLEVUE, Washington
- BURLINGTON, Ontario, Canada
- CALGARY, Alberta, Canada
- CHICAGO, Illinois
- CLARK COUNTY, Nevada
- CLARK COUNTY, Washington (CRESA)
- COLLIER COUNTY, Florida
- CORAL GABLES, Florida
- COLUMBUS, Ohio
- DALLAS, Texas
- DURHAM, North Carolina
- EDMONTON, Alberta, Canada
- FORT WORTH, Texas
- FORT SMITH, Arkansas
- GAHANNA, Ohio (MECC)
- HUBER HEIGHTS, Ohio
- INDIANAPOLIS, Indiana
- JOHNSON COUNTY, Indiana
- JOHNSON COUNTY, Kansas
- LAKE COUNTY, Indiana
- LAS VEGAS, Nevada
- LETHBRIDGE, Alberta, Canada
- LOS ANGELES, California
- LOVELAND-SYMMES, Ohio
- MEMPHIS, Tennessee
- MILFORD, Connecticut
- MILWAUKEE, Wisconsin
- MOBILE, Alabama
- NASHVILLE, Tennessee
- NEWARK, New Jersey
- NORCOM, Washington
- NORTH LAS VEGAS, Nevada
- OAK CREEK, Wisconsin
- OCEANSIDE, California
- PALM BEACH COUNTY, Florida
- PALM BEACH, Town of, Florida
- RICKENBACKER ANG, Ohio
- ROANOKE, City of, Virginia
- ROANOKE COUNTY, Virginia
- ROGERS, Arkansas
- SEATTLE, Washington
- SEYMOUR JOHNSON AFB, North Carolina
- SNOPAC, Washington
- SPOKANE, Washington
- TORONTO EMS, Ontario, Canada
- TORRANCE, California
- VANCOUVER, British Columbia, Canada
- WESTCOM, Iowa
- WEST PALM BEACH, Florida
- WAKE COUNTY FIRE & EMS, Raleigh, North Carolina
- WEST METRO FIRE PROTECTION DISTRICT, Colorado



Did you know?

Locution Systems provides its customers with 24/7 support as its standard.



Why Locution?

There are **MANY** reasons why Locution Systems is the premier fire station alerting system in the industry, and why we think you should choose our solution. We've outlined 10 of the most compelling reasons why the **PrimeAlert® Fire Station Alerting System** from Locution Systems is the best choice for your fire station alerting needs.

1

WE'RE SPECIALISTS & EXPERTS IN FIRE STATION ALERTING

- Fire station alerting is Locution Systems' specialty.
- We've offered fire station alerting systems since 1993, and fire station alerting is all we do.
- As a result, we approach fire station alerting technologies with a single-minded focus that's not diluted by product sales or technical consulting in other areas that are not relevant to fire station alerting.

2

PRIMEALERT® SYSTEM: A COMPREHENSIVE FIRE STATION ALERTING SYSTEM

Locution Systems' **PrimeAlert® Fire Station Alerting System** is a complete FSA system that offers:

- Automated voice alerting at fire stations & in the field
- Audio & visual alerting in fire stations
- Automated mechanical control of devices in fire stations (bay doors, gates, stoves, traffic lights by the station, etc.)
- Zoned alerting for multi-unit fire stations

3

SERVING SMALL, MEDIUM & LARGE FIRE-EMS DEPARTMENTS

Locution Systems' **PrimeAlert® Fire Station Alerting System** is currently operating in small, medium & large fire-EMS departments throughout North America. Examples include:

- Ames, Iowa (3 stations)
- City of Toronto, Canada EMS (48 stations)
- Chicago, Illinois (103 stations)

4

PROVEN IN THE FIELD

Locution Systems' **PrimeAlert® Fire Station Alerting System**:

- Currently serves and protects more than 34 million people throughout North America (US & Canada)

5

BASED ON 25+ YEARS OF RESEARCH AND DEVELOPMENT

- Locution Systems has been in business under that name since 1993.
- These technologies were under development prior to the formal incorporation of Locution Systems.
- We're constantly doing R&D to improve the system as technologies advance.

6

A COST-EFFECTIVE FIRE STATION ALERTING SOLUTION

Locution Systems' **PrimeAlert® Fire Station Alerting System** offers cost savings to fire departments in the following ways:

- Use of off-the-shelf components
- Open-platform design for easier migration & expansion
- Modular fire station alerting system (allows departments to buy a basic system first, and enhance it as desired over time)
- Software-centric fire station alerting system design yields efficiencies such as remote upgrade abilities

7

AUTOMATED VOICE ALERTING

- Locution Systems' automated voice alerting technology offers the most advanced speech technology on the market today for fire station alerting.
- **PrimeAlert®** offers three voice technology options:
 - > **Complete Human Voice (CHV)** – Voice alerting technology that provides a factory-delivered automated voice that provides a clear, natural sounding, and highly understandable automated voice.
 - > **Approximated Human Voice (AHV)** – Voice alerting technology that provides a pliable, "trainable" alerting voice that approximates a human voice using a collection of small human vocal elements trained by your department and to your department's needs.
 - > **CHV-AHV Hybrid Voice** – Automated voice alerting technology that combines the clarity of the CHV voice with the flexibility of the AHV voice.

8

LOCUTION = FASTER RESPONSE TIMES

- Reviews of log files from many customers proves that Locution Systems' **PrimeAlert® Fire Station Alerting System** significantly improves responses times: by multiple seconds, and by minutes.

9

LOCUTION = REDUCED STRESS FOR DISPATCHERS

- Locution Systems' **PrimeAlert® Fire Station Alerting System**:
- Allows dispatchers to easily handle more 911 call volume with the same staff.
 - Automates a repetitive part of the dispatcher's job.
 - Reduces call stacking, particularly during times of high call volume, which lowers dispatcher stress.

10

LOCUTION = REDUCED STRESS & SLEEP DEPRIVATION FOR RESPONDERS

Locution Systems' **PrimeAlert® Fire Station Alerting System** reduces stress and sleep deprivation for first responders with the following technologies:

- Automated voice alerting: One, clear, consistent alerting voice in the same order and format every time (reduces stress)
- Ramped lighting (reduces stress)
- Ramped tones (reduces stress)
- HeartSaver tones (reduces stress)
- Zoned alerting for multi-unit stations (reduces sleep deprivation)



Quick Facts

About Locution Systems

Locution Systems 20+ years of Fire Station Alerting Innovations

Founded in 1993, Locutions Systems, Inc. is a public safety technology company that offers fire station alerting technologies with the **PrimeAlert® Fire Station Alerting System**.

Our “prime” directive is to provide technologies to fire-EMS departments to help speed up response times to emergencies, and to promote the health & wellness of dispatchers and first responders by reducing stress and sleep deprivation that is so chronic and so detrimental to public safety personnel.

Our corporate headquarters are located in Golden, Colorado – on the west side of the Denver metro area. Our offices are located in a business park known for its groves of 40-foot-tall evergreens and expansive views of the nearby foothills and Rocky Mountains.



In this environment, our tight-knit team of **engineers, project managers, audio specialists, tech support, procurement, logistics, and customer service staff** work together to provide the premier fire station alerting system on the market today.

We are constantly conducting research and development, watching how technologies are evolving, and assessing how that impacts fire station alerting. This is what we do, and we live and breathe fire station alerting.



We invite you to connect with us about your fire station alerting challenges — at industry trade shows, industry conferences, through installation site visits, and direct contact. Please feel free to contact Locution Systems at **303.301.7300** or by visiting: **www.locution.com**. We look forward to working with you!

Locution Systems' PrimeAlert® Fire Station Alerting System:

A comprehensive & modular fire station alerting system that offers:

- AUTOMATED VOICE ALERTING
- VISUAL STATION ALERTING
- STATION CONTROLS
- ZONED STATION ALERTING
- AUDIO ALERTING (ZONING REQUIRED)
- MAPS & APPS

Proven in the field over **20+ years** of operation in small, medium & large fire-EMS departments

Serving & protecting more than **34 million people** throughout the United States & Canada

The PrimeAlert® system is **NFPA 1221 compliant!**