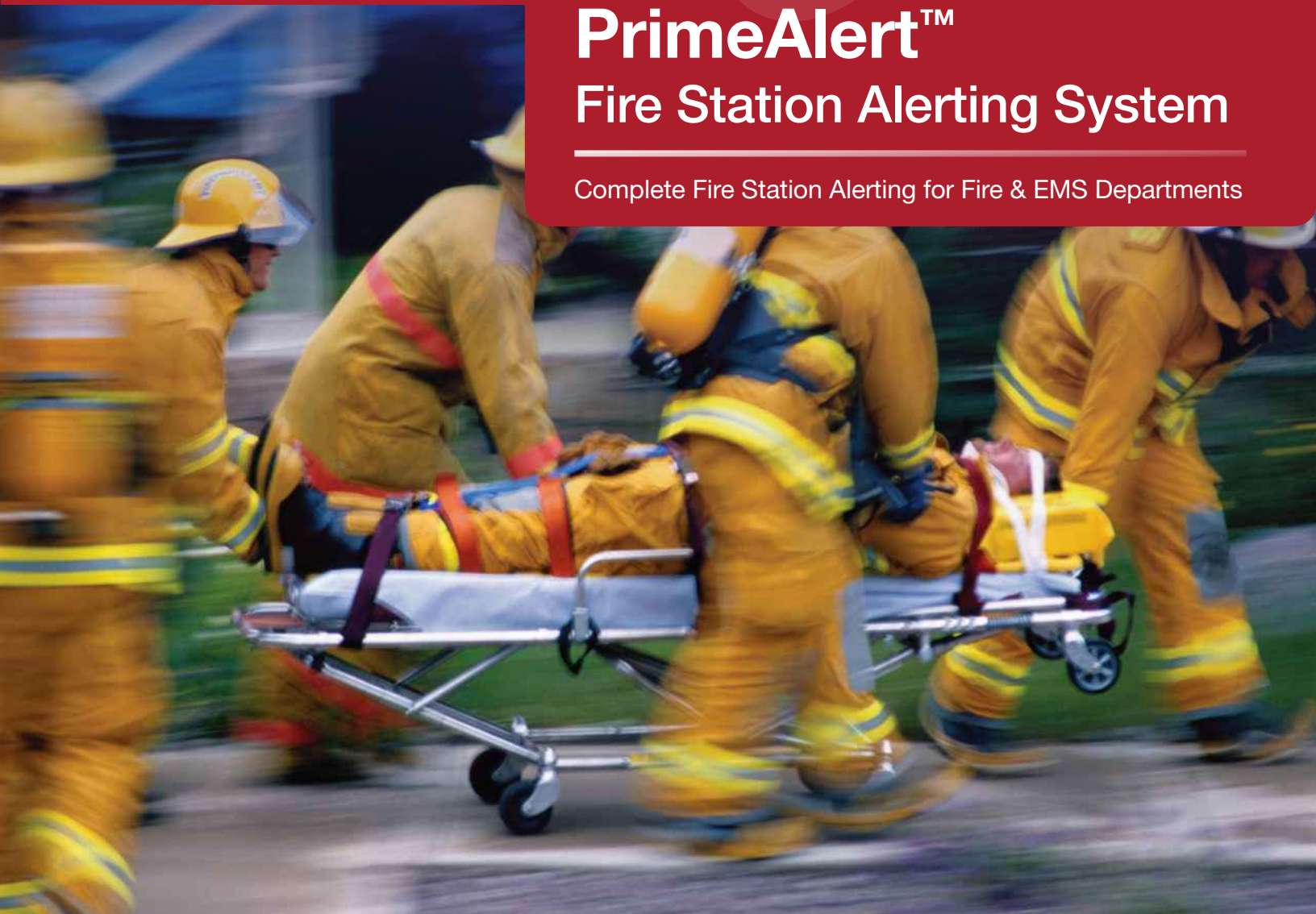


# **Locution** SYSTEMS INC.

Celebrating 20 Years of  
Fire Station Alerting Innovations

## **PrimeAlert™** Fire Station Alerting System

Complete Fire Station Alerting for Fire & EMS Departments





# 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 and fire station alerting technology! 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

The **PrimeAlert™ Fire Station Alerting System from Locution Systems** offers a modular and comprehensive fire station alerting system, including:

- Voice Alerting
- Audio Alerting
- Visual Alerting
- Zoned Alerting
- Mechanical Control of Station Appliances & Devices

The **PrimeAlert™ Fire Station Alerting System from Locution Systems** is proven in the field, and is currently serving and protecting over 30 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

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](http://www.locution.com) or 303.301.7300**

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# System at a Glance

```
graph TD; CAD[SUPPORTED CAD SYSTEMS] --- OS[OPERATING SYSTEMS]; OS --- VOICE[VOICE ALERTING OPTIONS]; VOICE --- ALERT[ALERTING DISTRIBUTION OPTIONS]; ALERT --- CAD;
```

## SUPPORTED CAD SYSTEMS

- Alert
- EmergiTech
- EnRoute
- Interact
- Intergraph
- Motorola Premier
- Motorola Premier 1
- New World
- Nortel/PEC Solutions
- PSSI
- Sungard-HTE
- Sungard-OSSI
- Tiburon
- Trittech

More CAD interfaces in development

## OPERATING SYSTEMS

- Windows
- Linux (station only)

## ALERTING DISTRIBUTION OPTIONS

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

## VOICE ALERTING OPTIONS

- **Complete Human Voice (CHV)** – Voice alerting technology that provides a factory-delivered automated voice that delivers a clear, natural sound, 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.



## STANDARD GLOBAL FUNCTIONS

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

## MECHANICAL CONTROL OPTIONS

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

## VISUAL ALERTING OPTIONS

- Ramped, switched LED Lighting Systems
- LED monitors
- Multi-color LED indicator devices
- Reader boards
- Response timers

## AUDIO ALERTING OPTIONS

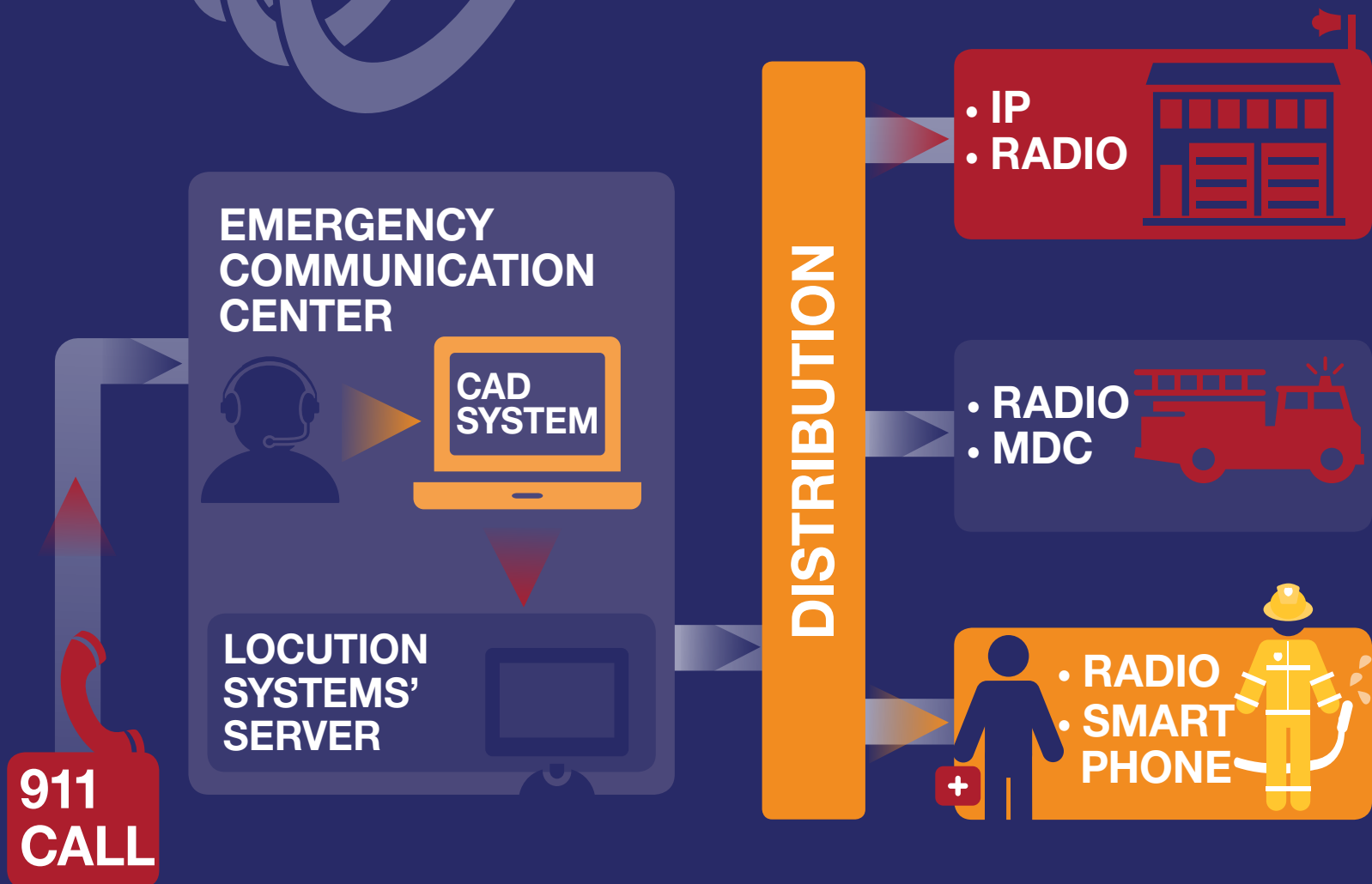
- Amplifiers
- Speakers (various options for ceiling & wall)

## ZONED ALERTING OPTIONS

- 3-area zoned alerting
- IP zoned alerting
- Multi-zone alerting



# 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 Locution Fire Station Alerting System takes over and automatically routes the dispatch information to the responding stations/unit(s).





## VOICE ALERTING OPTIONS

- **Complete Human Voice (CHV)** – Voice alerting technology that provides a factory-delivered automated voice that provides a clear, natural sound, 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.

## ZONED ALERTING OPTIONS

- 3-area zoned alerting
- IP zoned alerting
- Multi-zone alerting

## MODULAR FIRE STATION ALERTING OPTIONS

### VISUAL ALERTING OPTIONS

- Ramped, switched LED Lighting Systems
- LED monitors
- Multi-color LED indicator devices
- Reader boards
- Response timers

### MECHANICAL CONTROL OPTIONS

- Acknowledgement buttons/Door bells

Automated Control of:

- Apparatus bay doors
- Traffic lights
- Gates
- Gas stoves

### AUDIO ALERTING OPTIONS

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

## 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

Locution Systems’ Fire Station Alerting System offers a modular array of options for:

- Voice Alerting
- Visual Alerting
- Audio Alerting
- Zoned Alerting for multi-unit stations
- Automated Mechanical Control of various appliances and devices in and around the fire/EMS station

A photograph of two firefighters in full protective gear, including helmets and oxygen tanks, working at a fire scene with large flames in the background. A large, semi-transparent '0' logo is overlaid on the left side of the image.

# Comm Center Hardware

## What's at the Comm Center?

The “brains” of Locution Systems’ **PrimeAlert™** Fire Station Alerting System resides in the emergency communications center. The **PrimeAlert™** System Controller Software (SCS) resides on an industry-standard (non-proprietary) computer server (virtual servers supported).

In the hierarchy of technology within an emergency communications center, the Computer-Aided Dispatch (CAD) system is king. Locution Systems’ **PrimeAlert™** Fire Station Alerting System rides one level below the CAD system, and relies on dispatch information from the CAD system to operate. Once a dispatcher commits the responding unit(s), the CAD system sends a data burst to the Locution Systems computer server in the communications center. PrimeAlert™ takes over and automatically routes dispatch and alerting information to the responding stations and unit(s), whether they’re at a fire station, or out in the field.



## Supported CAD Systems

Locution Systems already has interfaces with the following CAD Systems, and more CAD interfaces are placed in development as Locution Systems receives requests for a new CAD interface. Here’s a look at the CAD systems we currently support (and more are in development):

- Alert
- EmergiTech
- EnRoute
- Interact
- Intergraph
- Motorola Premier
- Motorola Premier 1
- New World
- Nortel/PEC Solutions
- PSSI
- Sungard-HTE
- Sungard-OSSI
- Tiburon
- Trittech





## PrimeAlert™ Radio Console

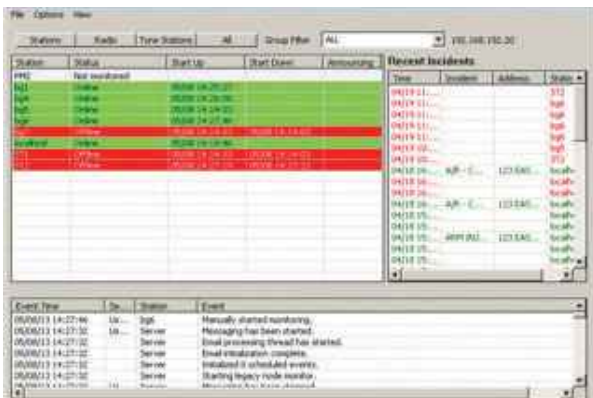
For fire/EMS departments that choose to deploy PrimeAlert™ Radio, their emergency communications center radio console would have additional equipment from Locution Systems. Extra equipment to run a radio deployment of the PrimeAlert™ Fire Station Alerting System – either as a primary or secondary alerting path – will include a small-form-factor personal computer added to the radio console area, along with additional software.



An affordable, off-the-shelf, small-footprint PC loaded with PrimeAlert™ Fire Station Alerting System radio software is connected to the emergency communications center's radio console.

## PrimeAlert™ System Administration Interface

The graphical user interface for Locution Systems' PrimeAlert™ Fire Station Alerting System is a user-friendly, industry-standard interface that's color-coded, and features pull-down menus, and click-boxes.



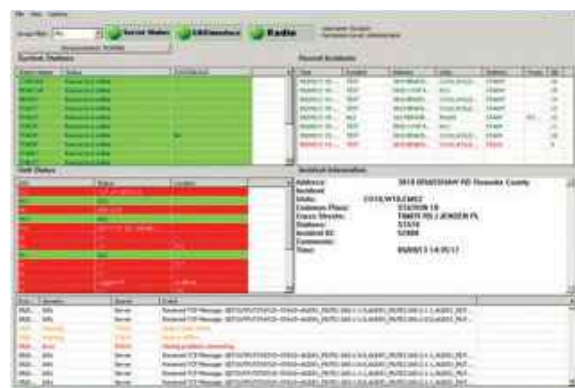
The PrimeAlert™ Fire Station Alerting interface for system administrators features a familiar, easy-to-use, graphical user interface.



## User Interfaces

### PrimeAlert™ Dispatcher Interface

The dispatcher graphical user 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.

# What's 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.*

## Ultra-Small-Form-Factor Personal Computer

An ultra-small-form-factor PC (small footprint) is 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.*





# Station Hardware

## 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).



*Locution Systems' PrimeAlert™ Station Control Unit balances audio signals within the fire station, provides audio test capabilities, and has four built-in relays for controlling station devices.*

## 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.



*Locution Systems' PrimeAlert™ Intelligent Audio Switch provides intelligent detection of audio coming through, and intelligent muting functions so tones can sound before automated voice alerting of dispatch information commences.*

## 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™ PLCs are used for mechanical control of appliances and devices in fire stations.*

# Two Product Options

## Two Main Product Options:

- 1) **PrimeAlert™ STATION**
- 2) **PrimeAlert™ RADIO**

Locution Systems' **PrimeAlert™ Fire Station Alerting System** offers two complementary products, along with a variety of specific offerings in voice alerting, audio alerting, visual alerting, zoned alerting & mechanical control technologies. 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™ STATION** (IP-based alerting)

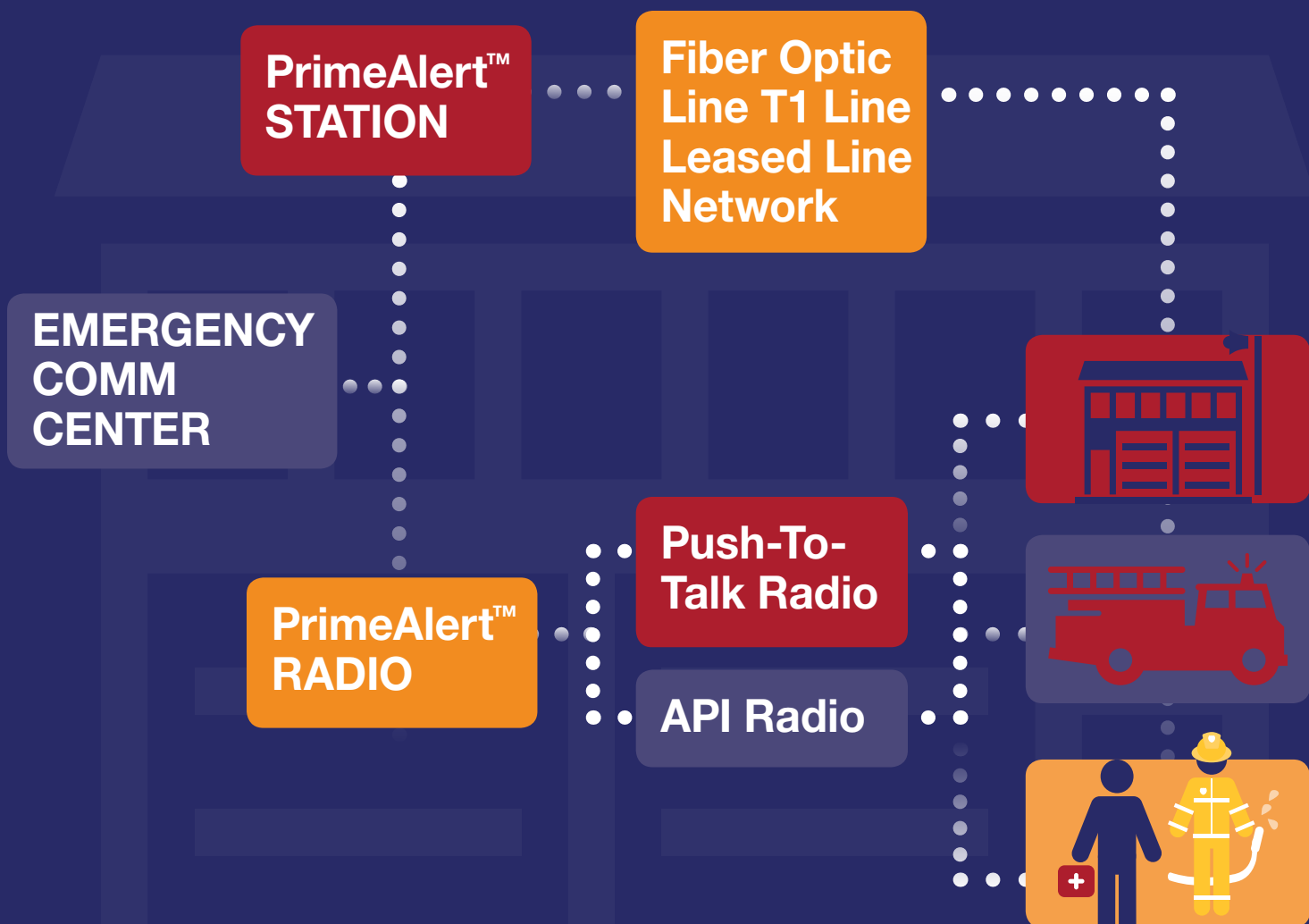
**PrimeAlert™ STATION** is Internet Protocol (IP) Network-based alerting. Dispatch and alerting information travels along a high-speed IP network to the station, where a variety of alerting functions take place. As IP-based alerting, **PrimeAlert™ STATION** often serves as the primary alerting path for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

### 2) **PrimeAlert™ RADIO** (Radio-based alerting)

Locution Systems' **PrimeAlert™ RADIO** is available in two options: **1) Push-to-Talk radio alerting**, and **2) Application Program Interface (API)-based 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.



# PrimeAlert™ Communication Paths



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.

## 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. station number, 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?

Locution Systems' **PrimeAlert™ Fire Station Alerting System** can send multiple dispatches simultaneously. This technology significantly improves response times!

## PrimeAlert™

### Automated Voice Alerting Overview

Locution Systems' **PrimeAlert™ Fire Station Alerting System** offers both types of automated voice alerting technology presently available in the market.

#### 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 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





# Automated Voice Alerting

## 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

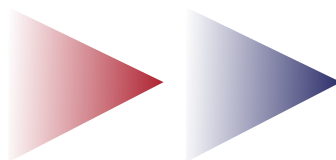
Once received by the radio or the fire/EMS station PC, an automated voice dispatch is created. The IP version of the system is capable of simultaneous dispatching, i.e. the system can send multiple dispatches to multiple fire/EMS stations in fractions of seconds.





# Fire 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 mechanical 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



### 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, New Britain & Palm Beach); the Midwest (Chicago, Indianapolis); the south (Austin, Dallas, Fort Worth, Mobile); as well as the expansive regions of Canada (from Vancouver in the west to Toronto in the east).





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



## Automatic Shut-off of Gas Stoves



## Automatic Control of Gates

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

### 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



### Near-field Speaker

**What Is It?** These wall-mount baffle speakers provide superior sound quality and highly understandable audio with sound that washes 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



### 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)





# Audio Alerting

## Horn Speakers

**What Is It?** Exterior speaker for audio alerting outside the fire station. Weatherproof for indoor or outdoor applications.

**Location:** Outside the fire station



## Audio Attenuator

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

**Location:** Anywhere a speaker is located



## DSP (Digital Signal Processing) 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



## 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



## Doorbell/Acknowledgement Buttons

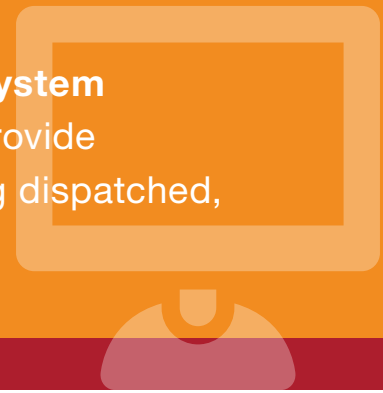
**What Is It?** A variety of buttons tied to specific functions, including a doorbell and dispatch acknowledgment buttons.

**Location:** Station entrances (for doorbells); apparatus bay (for "ack" buttons)



## 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

## LED 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



## Response Timer

**What Is It?** Digital timer that displays the length of time it takes a unit to turn out. Available in Double-digit, or Triple-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



## LCD Monitor

**What Is It?** Large-screen LCD with multiple content display options. Can display dispatch and unit status information, maps, traffic, weather, hydrant location & notes.

**Location:** Common areas of the fire station, areas of natural traffic such as near stairs





# Visual Alerting – Visual Displays

## Zoned Alerting Touchscreen

**What Is It?** Touchscreen used with Locution Systems' **PrimeAlert™ ZoneTracker™**. Responders use the touchscreen to “tell” the **PrimeAlert™ Fire Station Alerting System** the dorm in which they'll be sleeping. Can be configured for different user levels.

**Location:** Officer's quarters and common areas of the fire station



## High-speed 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.



# Visual Alerting – Lighting



## Fire Station Alerting Lighting for Illumination

### Night-Vision Illuminator – Wall Mount

**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



### Night-Vision Illuminator – Ceiling Mount

**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.

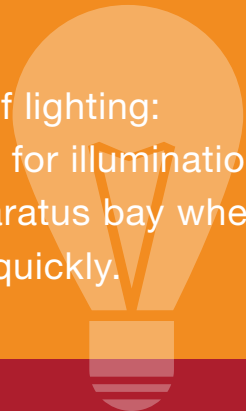
**Location:** Bunk rooms, hallways, fire pole areas



*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.*



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 cue responders quickly.



# Fire Station Alerting

## Lighting for Alerting

### Unit Indicator Light – Flush 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



### Unit Indicator Light – Stacked

**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



### 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, outdoor patio areas



### 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, outdoor patio areas





# Zoned Alerting

## Fire Station Alerting ZoneTracker™ Zoned Alerting

### What is Zoned Fire Station Alerting?

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

### What Are The Benefits of ZoneTracker™ Zoned Fire Station Alerting?

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

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.*

**ZoneTracker™** is the zoned alerting component of **Locution Systems' PrimeAlert™ Fire Station Alerting System**. **Locution Systems' ZoneTracker™** provides a variety of options for zoned fire station alerting at multi-unit fire stations.

## Fire Station Alerting

### ZoneTracker™ Zoned Alerting

**3-area Zoned Alerting:** A simplified, base-level version of zoned alerting that can route the dispatch and alerting functions to three areas of the station. This option does not provide true zoning capabilities, nor can it make use of the “absolute quieting” technology. A basic way to route dispatches to three designated areas within the station.

**IP Zoned Alerting:** An innovative way to provide zoned alerting in older stations where the wiring requirements for zoned alerting are not feasible. Instead, this approach involves setting up an affordable, off-the-shelf, small-form-factor PC in each dorm room with its own IP address. Ideal for departments on a budget, or where retro-fitting wiring would be difficult.

**Multi-zone Alerting:** Multi-zone alerting is the most sophisticated zoned alerting option offered by **Locution Systems' PrimeAlert™ Fire Station Alerting System**. Multi-zone alerting is ideal for multi-unit stations with more than six bunks, and for stations with multiple types of responding units (Engine, Ladder, HazMat, Medic). Multi-zone alerting requires extensive wiring & the ideal time to implement this technology is for new stations.



### 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.





# Fire Station Schematic



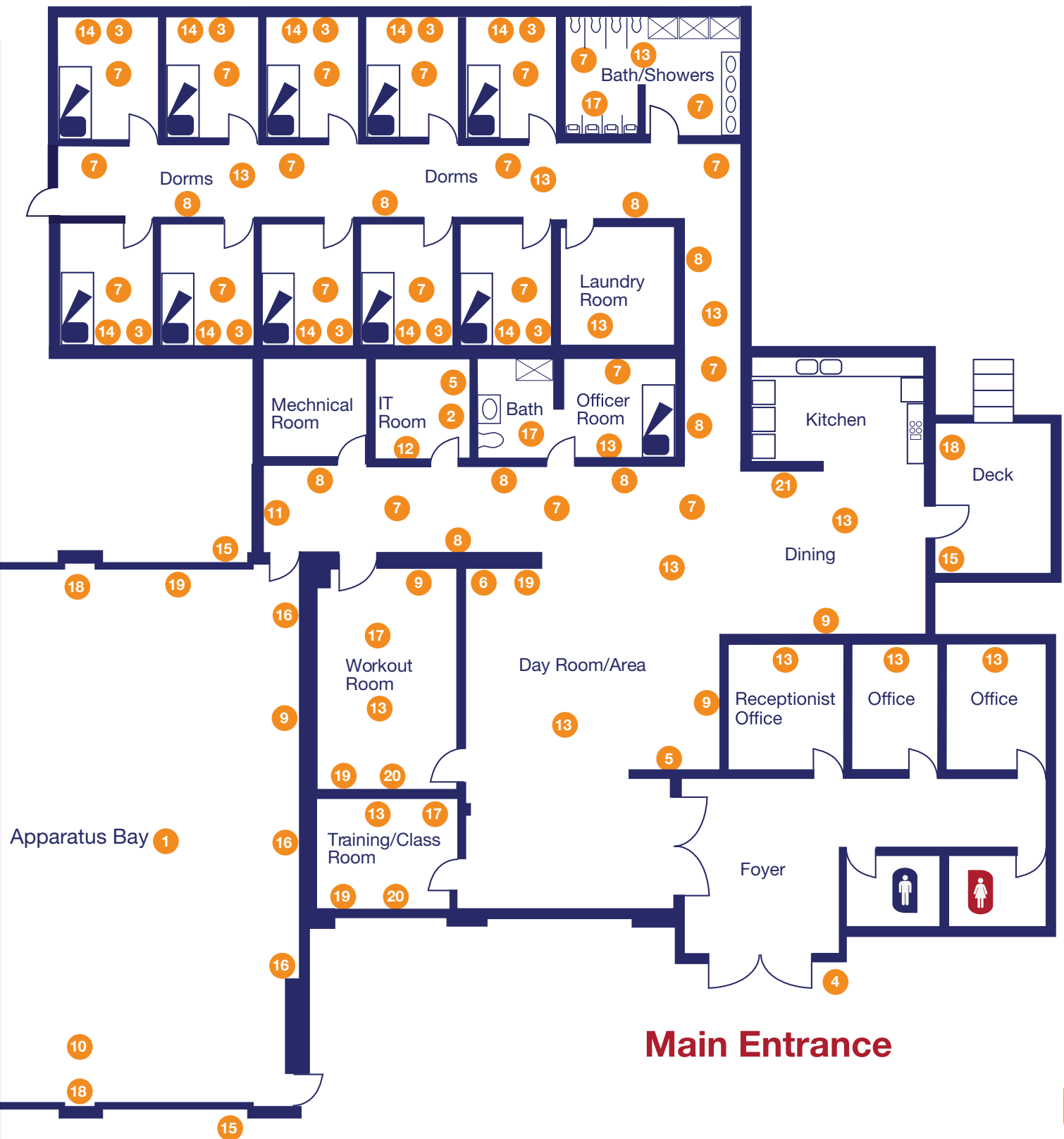
- 1 Ambient Noise Sensor
- 2 Amplifier-DSP
- 3 Audio Attenuator
- 4 Doorbell
- 5 Intelligent Audio Switch
- 6 LCD Monitor
- 7 Night Vision Illuminator-Ceiling Mount
- 8 Night Vision Illuminator-Wall Mount
- 9 Reader Board
- 10 Response Timer
- 11 Rip & Run Printer
- 12 System Enclosure
  - Station Control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


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1





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 COMPLETE 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 (148 stations)

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.

4

### PROVEN IN THE FIELD

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

- Currently serves and protects over 30 million people throughout North America (US & Canada)





# Why Locution?

## 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

### TWO OPTIONS FOR 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 two 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; or
  - > **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.

## 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 minutes.

## 9

### LOCUTION = REDUCED STRESS FOR DISPATCHERS

Locution Systems' PrimeAlert™ Fire Station Alerting System:

- Locution FSA technology:
- 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)



# 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 well for small, medium & large fire/EMS departments and is serving and protecting over 30 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 brainstorming.

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.

## Our Customers Include:

- ALAMEDA, California
- ALAMEDA COUNTY, California
- AMARILLO, Texas
- AMES, Iowa
- ANCHORAGE, Alaska
- AUSTIN, Texas
- BAYSIDE, Wisconsin
- BELLEVUE, Washington
- **CALGARY, Alberta, Canada**
- CHICAGO, Illinois
- CLARK COUNTY, Nevada
- CLARK COUNTY, Vancouver, Washington, USA (CRESA)
- COLUMBUS, Ohio
- DALLAS, Texas
- DEKALB COUNTY, Georgia
- DURHAM, North Carolina
- **EDMONTON, Alberta, Canada**
- FREMONT, California
- FORT WORTH, Texas
- HENDERICKS COUNTY, Indiana
- INDIANAPOLIS, Indiana
- JOHNSON COUNTY, Kansas
- LAS VEGAS, Nevada
- **LETHBRIDGE, Ontario, Canada**





- LOS ANGELES, California
- LOVELAND-SYMMES, Ohio
- MILWAUKEE, Wisconsin
- MOBILE, Alabama
- NASHVILLE, Tennessee
- NEW ALBANY, Ohio (MECC)
- NEW BRITAIN, Connecticut
- NEWARK, New Jersey
- NORCOM, Washington
- OCEANSIDE, California
- PALM BEACH COUNTY, Florida
- PLANO, Texas
- ROANOKE, City of, Virginia
- ROANOKE COUNTY, Virginia
- ROGERS, Arkansas
- SEATTLE, Washington
- SPOKANE, Washington
- **TORONTO EMS, Ontario, Canada**
- Town of PALM BEACH, Florida
- UNION CITY, California
- **VANCOUVER, British Columbia, Canada**
- 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.





# About Locution Systems

## Locution Systems Celebrating 20 Years of Fire Station Alerting Innovations!

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

Our “prime” directive is to provide technologies to fire and 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 80-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](http://www.locution.com)**. We look forward to working with you!






# PrimeAlert™ Quick Facts



## Locution Systems' PrimeAlert™ Fire Station Alerting System:

A complete & modular fire station alerting system offering:

- AUTOMATED VOICE ALERTING
- AUDIO ALERTING
- VISUAL ALERTING
- ZONED ALERTING
- MECHANICAL CONTROL OF APPLIANCES & DEVICES AT THE STATION



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

Serving and protecting over **30 million people** throughout the United States and Canada

The PrimeAlert™ system is NFPA 1221 compliant!



▶ **Improve  
Response Times**

**Reduce Stress  
for Dispatchers**

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



**Locution**  
SYSTEMS INC.

[www.locution.com](http://www.locution.com)