



Keltron Life Safety Event Management Systems for Multi-Building Environments

*Keltron provides solutions for
multi-building facilities that
enable overall situational
awareness and the fastest,
most accurate response
to fire, life safety, and
security incidents.*

Meeting A Facility's Life Safety Challenge

Keltron systems combine advanced technologies with existing systems to provide a cost-effective solution for significantly improving situational awareness and facility-wide life safety. Keltron offers fire and security alarm monitoring systems for facilities that monitor their own alarms and/or employ off-site, commercial alarm monitoring service companies. Our systems unify within a single operator view:

- *Multiple models and brands of alarm panels*
- *Multiple alarm signaling technologies*

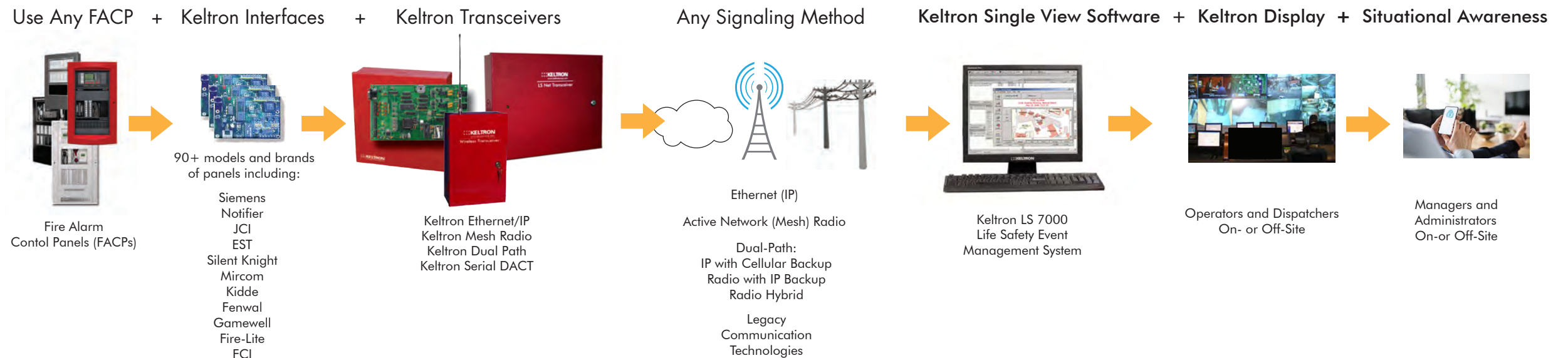
In combination with Keltron alarm management software that is optimized specifically for campus and multi-building facilities, a Keltron system provides an integrated system of fire and security alarm monitoring, dispatching, reporting, and overall situational awareness.



The Keltron Advantage: Universal Compatibility

Keltron Solutions – How They Work

This diagram represents how Keltron's systems interface with, transmit, and receive point-addressable signals such as device type, device location and type of event. Our systems are compatible with more than 95% of the models and brands of FACP's and transmit alarms over most standard communications technologies into a single, facility-wide alarm monitoring, dispatch and reporting system.



Keltron's Universal Compatibility

To centralize life safety event management at multi-building facilities, Keltron's systems interface with a wide range of:

Fire alarm control panels (FACPs)

Provide point-addressable information from more than 90 different brands and models of FACPs

Alarm signaling technologies

Use Ethernet (IP), active network radio (RF), dual-path IP/cellular or radio/IP, telephone lines, and other legacy signaling technologies

The Benefits of Universal Compatibility

Keltron enables customers to provide more effective monitoring, dispatching and reporting services, and to use their operating cost savings to fund their investment in Keltron solutions:

Situational Awareness

Provides single view of entire system in real time

Choice

Allows flexibility to choose and use the most optimal FACPs

Efficiency

Leverages existing FACPs, communications infrastructure and personnel

Savings

Can eliminate monthly communications charges and third-party alarm monitoring fees

Speed

Provides fast information delivery with the most efficient signaling technologies and alarm monitoring software

Reliability

Ensures 24/7/365 availability using supervised, fully redundant systems

Accuracy

Provides operators and dispatchers with event-specific information

MULTI-BUILDING ENVIRONMENTS

EDUCATION – College, University and School Campuses

INDUSTRIAL – Heavy Industry and Manufacturing

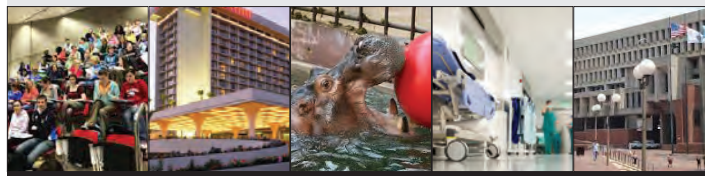
COMMERCIAL – Lodging and Retail Chains

HEALTHCARE – Campus and Regional Hospitals

CULTURAL – Museums, Zoos and National Parks

GOVERNMENT – City, State and Federal Facilities

MILITARY – Land, Air and Sea Bases



Keltron Customers

Keltron's unique ability to interface to an unparalleled variety of legacy systems reduces our customers' capital expense and increases ROI. Keltron's life safety event management systems provide fire and life safety at hundreds of multi-building educational, industrial, commercial, military facilities and municipal, state and federal government complexes worldwide.

Find a partial list of Keltron's customers and case studies at www.keltroncorp.com/markets.

Major Components of Keltron's Solutions

Keltron Alarm Monitoring, Dispatching, and Reporting Software

The Keltron LS 7000 life safety event management system is a suite of software applications for receiving, monitoring and managing life safety incidents in a multi-building facility. It enables the fastest and most reliable response.

The Keltron LS 7000 system includes servers and workstations that provide operators with accurate event information and even suggest appropriate incident response strategy. The system's unique and innovative features include:

- Multiple operating modes to manage and prevent operator overload
- Event segregation that routes different signals to different departments (e.g. fire, police, maintenance)
- Comprehensive history tracking and reporting
- Extensive graphics capability and intuitive user interface
- Overall situational awareness of activity in real time and in a consistent, single view
- Redundant server options and emergency operations centers



Keltron FACP Interfaces

Part of the universal compatibility Keltron offers is its systems' ability to transmit specific, point-identifiable (Point ID) information from FACPs including device type, device location and type of event. Keltron Ethernet transceivers and Keltron DataTap™ with DataText™ FACP interfaces for radio transceivers currently support and interface with over 90 different new and legacy brands and models of addressable FACPs. Keltron customers benefit by being able to:

- Provide all FACPs' information to the operator in a single, unified presentation
- Leverage existing investments in equipment
- Select FACPs that best meet the facility's needs

Alarm Signaling Communications

Reliance on telephone lines and old wiring to transmit fire and security information is becoming increasingly costly and unreliable. Keltron's systems' can simultaneously receive signals using both new and legacy signaling technologies.

Newer technologies

Ethernet (IP) and active network (mesh) radio provide faster, more reliable communications. For facilities that need extra reliability and redundancy, we offer dual-path transceivers: IP with a cellular back-up path, radio with IP back-up path and hybrid radio.

Legacy communications

Keltron's systems combine legacy technologies such as telephone lines and direct wire with new technologies to enable phased-in transition within time and budgets.

Keltron Signaling Systems

Keltron Single/Dual-Path Ethernet (IP) Signaling System with Cellular Backup

The unparalleled availability and reliability of current Ethernet (IP) networks provides an excellent solution for reliable alarm transmission with an optional cellular backup path.

- Leverages the existing LAN/WAN network, easy to install
- Minimizes bandwidth utilization with small packet, event-driven, on-demand protocols
- Provides robust security with closed architecture and password protection
- Interfaces with more than 85 brands and models of FACP's
- Provides redundancy with optional cellular back up path



Keltron Single and Dual-Path Active Network Radio Signaling System with IP Backup

Keltron's mesh radio systems offer superior levels of reliability, speed, independence, and cost savings.

- Transmits signals using either radio frequency or IP technology
- Two-way signaling ensures signal receipt and overall reliability
- Multi-path capability eliminates need for towers and repeaters
- 2 watt power provides long range and facilitates building penetration
- No monthly communications cost
- Optional DataTap/DataText interfaces for point ID information.



Keltron Legacy Communications Systems – Providing a Path to Upgrade

A range of Keltron alarm receivers enable upgrades from existing legacy communications to fit the budget, time frame and operating needs of multi-building facilities:

- Enables phased-in upgrades when time and budgets allow
- Combines both legacy and modern communications systems in a single alarm monitoring system
- Uses one or more signaling systems from different facilities into one facility-wide alarm monitoring system
- Re-transmits alarm data to a city fire department or a third-party monitoring center as required



Keltron's systems are UL listed, compliant with NFPA 72 and CSFM and NYFD approved.



Working with Keltron

A trademark of Keltron is our consultative approach to designing optimal solutions for our customers. We work with a variety of entities to design, specify and implement our life safety event management systems including specifying engineers, fire and security dealers, systems integrators, and system owners, all of whom are essential to the process.

From our original digital receiving equipment to our current high-tech-oriented, multi-tasking systems we are committed to overall system integrity and to satisfying our customers.

KELTRON

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Keltron Qualifications and Experience

Keltron was founded more than 60 years ago by MIT and Northeastern University engineers and is based in Waltham, Massachusetts, the heart of the Massachusetts high tech region. An early pioneer in the field of municipal alarm receiving systems, the company's core focus today continues to be on designing and manufacturing state-of-the-art life safety solutions that are ISO 9001:2015 certified and made in the USA.

Keltron's long-term relationship with NFPA and Underwriters Laboratories (UL) enables us to participate in industry decision-making and maintain product relevance. Keltron's products are UL listed to rigorous UL requirements and Keltron contributes to fire code development on the NFPA 72 SIG-SSS committee.

