NOTIFIER®
by Honeywell

CONNECTED CAMPUS.
CUSTOMIZED SOLUTIONS.

Connected Campus. Customized Solutions.

NOTIFIER's network solutions for multi-building or large scale building applications can be customized to meet the most complex and challenging requirements

- Central, single interface connecting separate, disparate systems giving you **total control over your life safety system, increasing operational efficiency**
- Solutions that allow you to **quickly identify and respond to emergency events** across large, connected campuses
- Highly reliable systems can be **tailored to solve unique detection problems reducing cost of failure**
- Expandable, modular designs compatible with existing technologies and other building management systems, **reducing total cost of ownership**

NOTIFIER®
by Honeywell

SINGLE INTERFACE SOLUTION

Networking is Key to a Single Interface Solution



What is Networking?

- Allows multiple panels/products (referred to as “nodes”) be interconnected together, with the ability for inputs on one node to activate outputs on other nodes
- UL requires there to be at least one network display node that can annunciate all nodes
  - NCA-2, **ONYXWorks®** Workstation, NFS2-3030 in network display mode



NOTIFIER Networking

Value

- **Unified response** - All panels operate independently
- **Enhanced survivability** – communications loss will not compromise life safety
- **Expandable -** Easily accommodates future growth

Solution

- NOTI-FIRE-NET
  - LAN or WAN
  - Connect using wire, fiber or IP (hybrid too!)
- Industry leading network node/panel capacity – up to 200 nodes!
- Network-wide display and control

Key component of emergency communications

ONYXWorks® Single Interface Solution

- ONYXWorks®
  - Monitoring fire and security
  - Custom floor plans pinpoint the exact location of events
  - Control of the system determined by user profiles
  - UL 864 (Fire) and 2572 (Mass Notification) listed
    - 2572 listed Central Control Station



Next generation in life safety and buildings system integration

ONYXWorks®

Graphical User Interface (GUI) software that currently operates on Microsoft Windows 10 that supports the following clients:

- Client Software
  - NOTIFY-IP
  - ONYX-Notify
  - NFN Gateway
    - Standard NFN and High Speed NFN
  - Receivers Gateway
    - Integrate any fire and security system via a DACT (dialer) capable of Contact ID

ONYXWorks® Reduce Response Time with Fast Event Notification

- Centralized monitoring and control of multi-panel / multi-building fire alarm networks
- Intuitive graphical display of emergency events overlaid on the building floor plan
- Pinpoint the exact location of an emergency
- Events are color coded so they can be quickly identified



ONYXWorks® System Integration

- **Full control of fire only or integrated systems**
  - ✓ NOTIFIER systems
  - ✓ Monitoring of third party fire
  - ✓ Monitoring of security systems
- Interoperability of dissimilar systems and allows previously separate systems to be controlled as a single building system
- Provide event or device specific instructions to operators for an informed response
- Network-wide Cooperative Control by Event

ONYXWorks® Simple & Secure

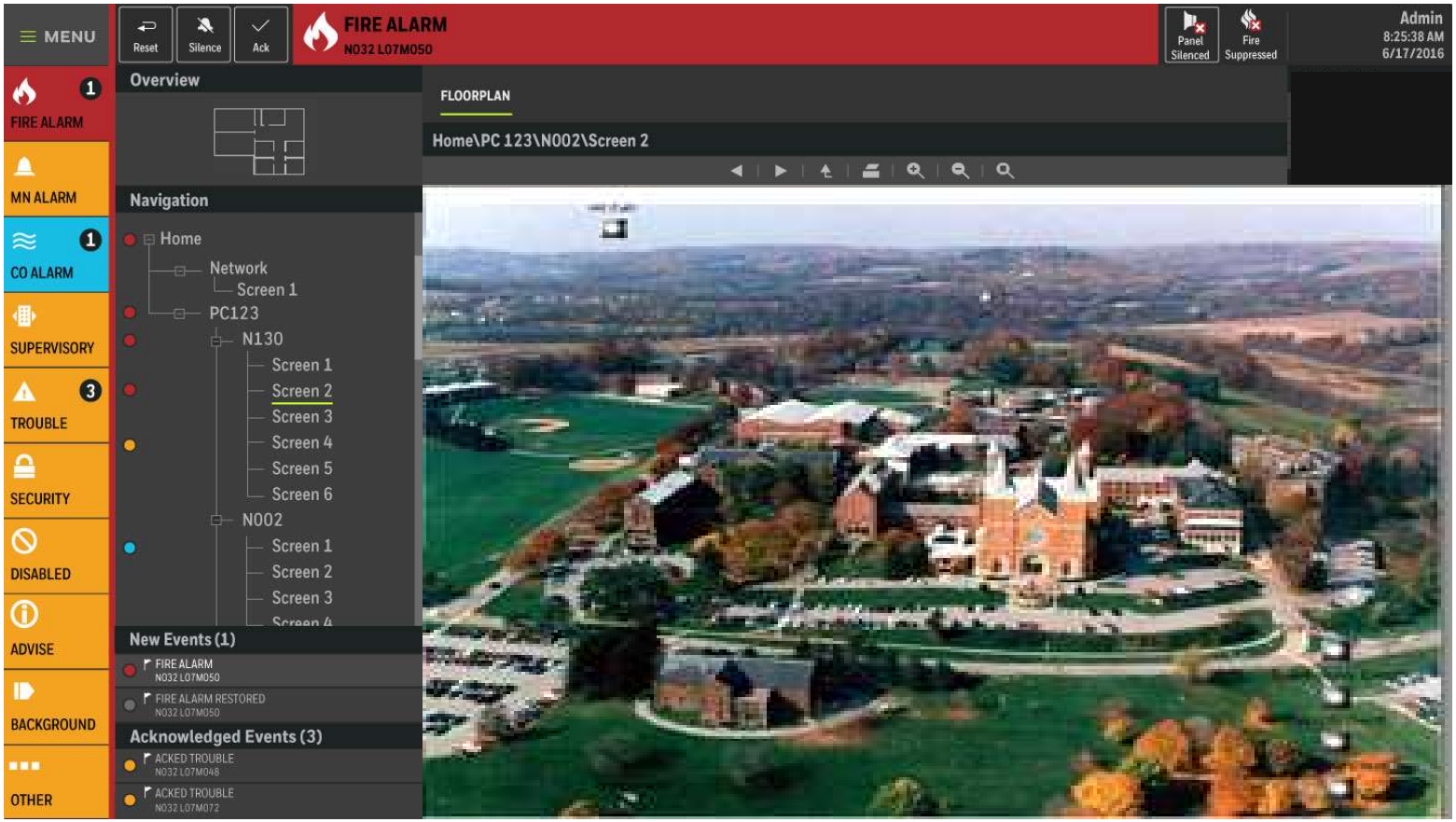
Simple Maintenance

- Reports and flags trouble events on a real-time basis
- Valuable diagnostic tool so maintenance personnel monitoring the system are immediately alerted
- History log allows searching by device to determine if any trouble or maintenance patterns exist
- Minimized operator training

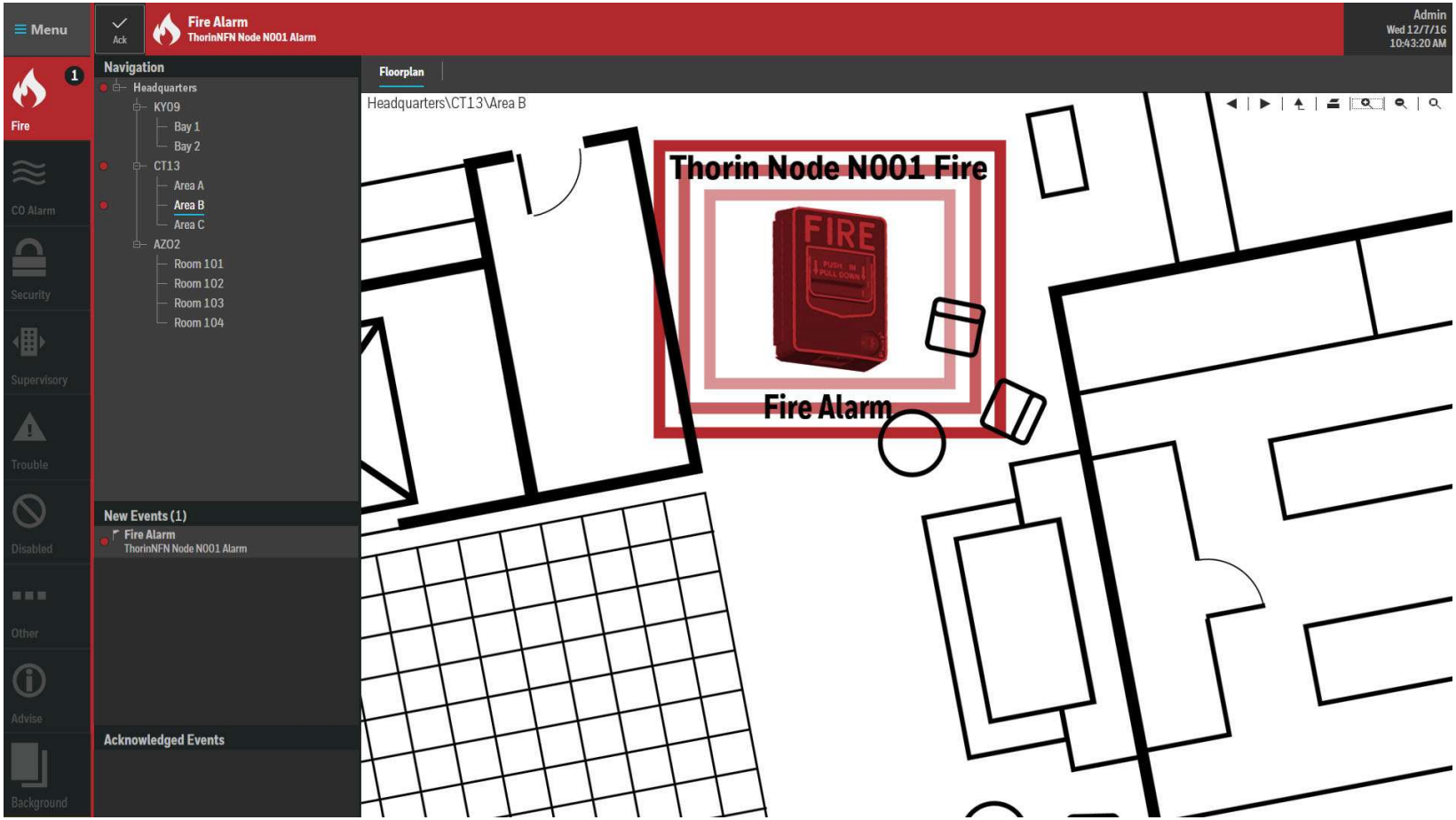
Secure Access

- Operator Login/Logout/Change Password Function
- Only authorized personnel can access the system, providing a safe & secure monitoring workstation

ONYXWorks®– Home Screen

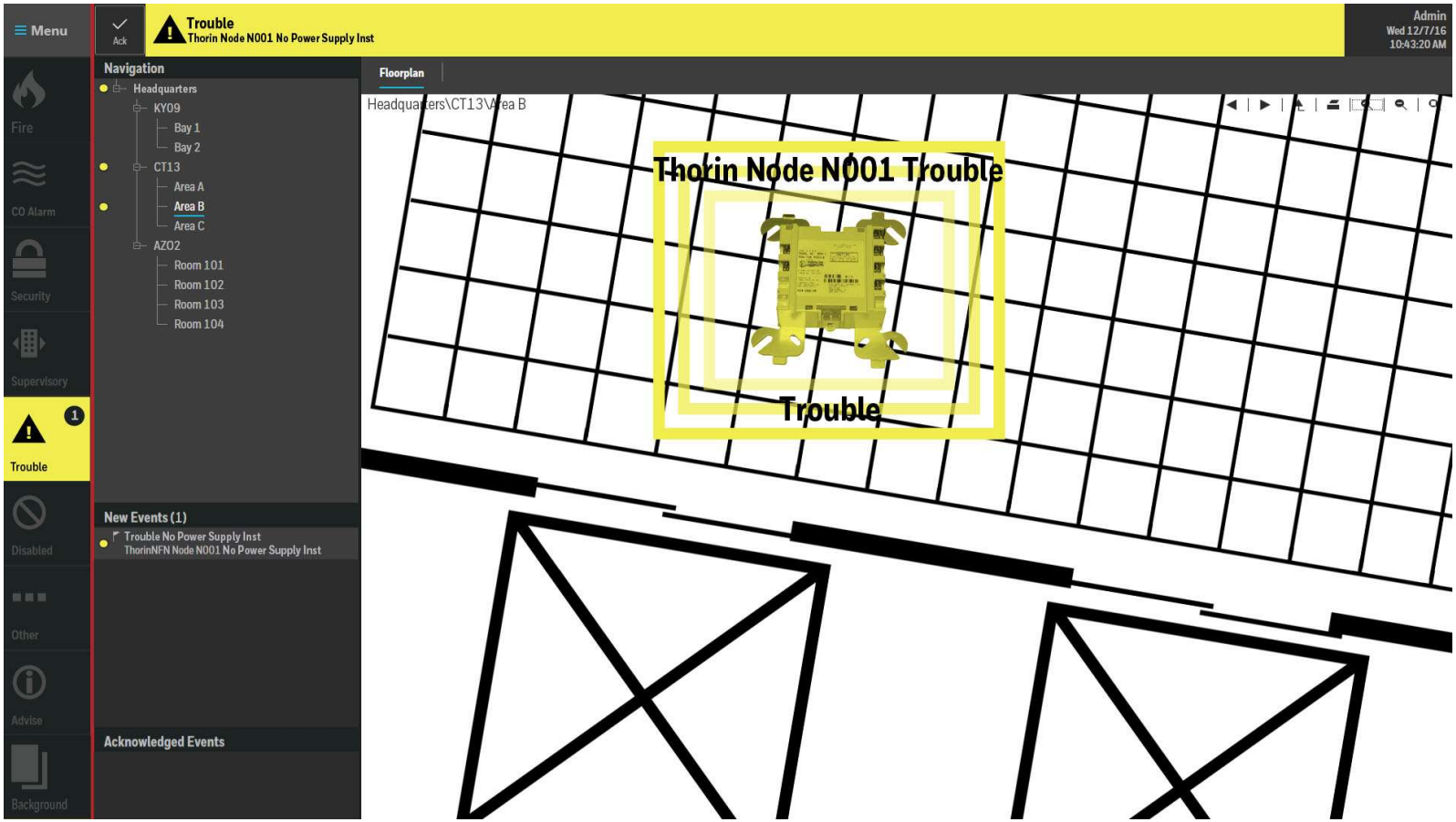


ONYXWorks® - Alarm



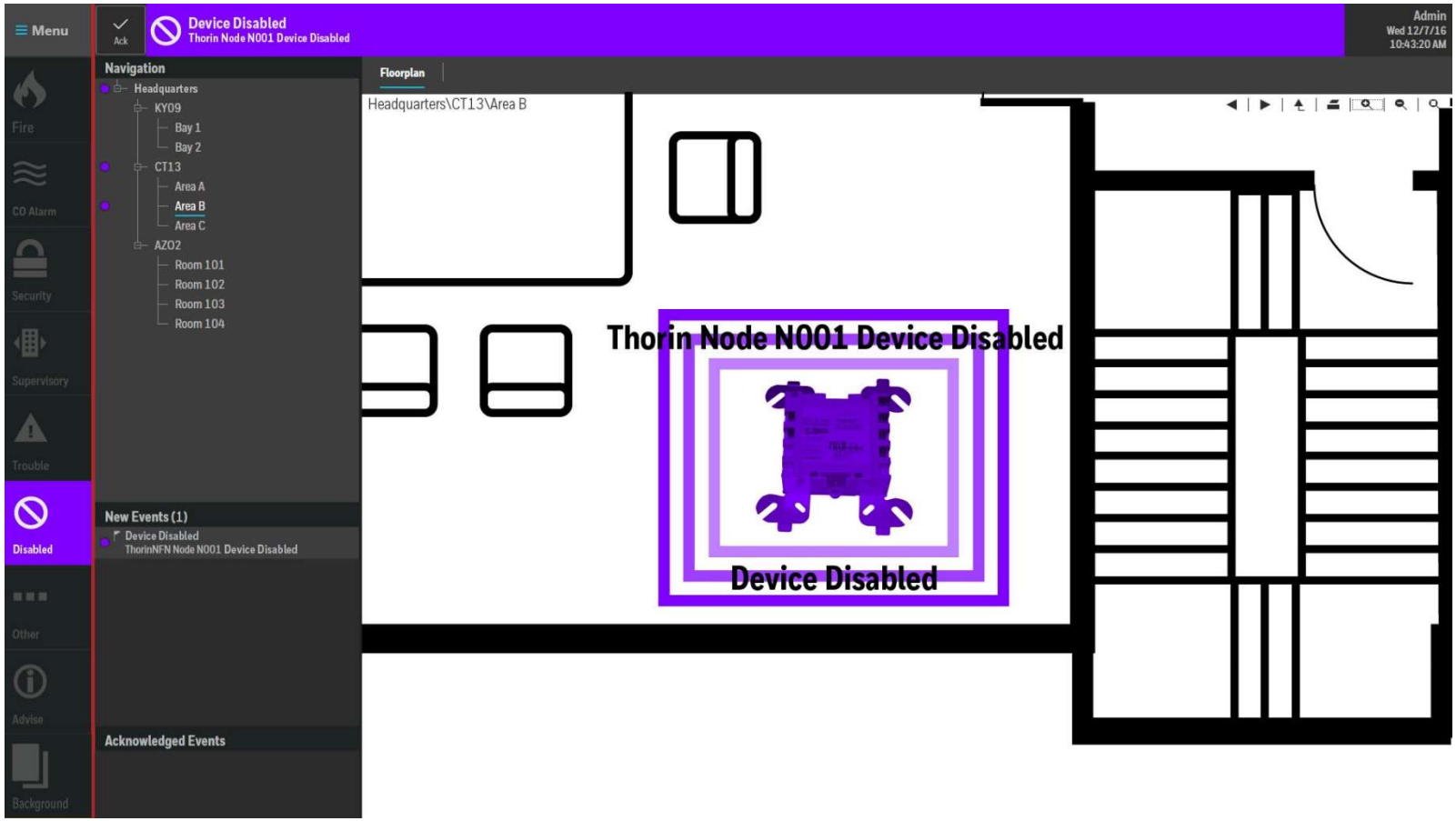
Automatic screen navigation based on event priority

ONYXWorks® – Trouble



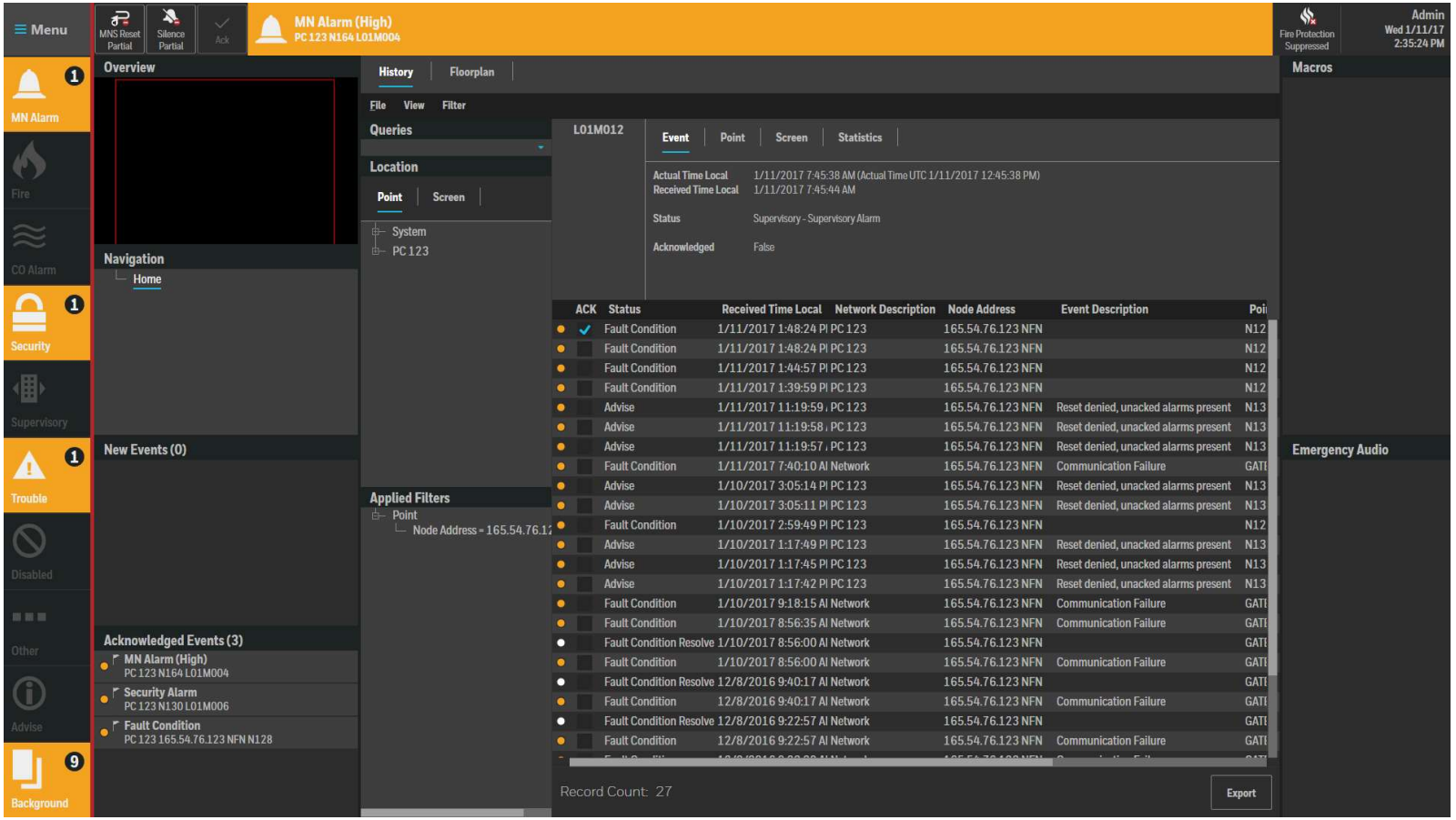
Customizable colors represent each event type

ONYXWorks® - Disable

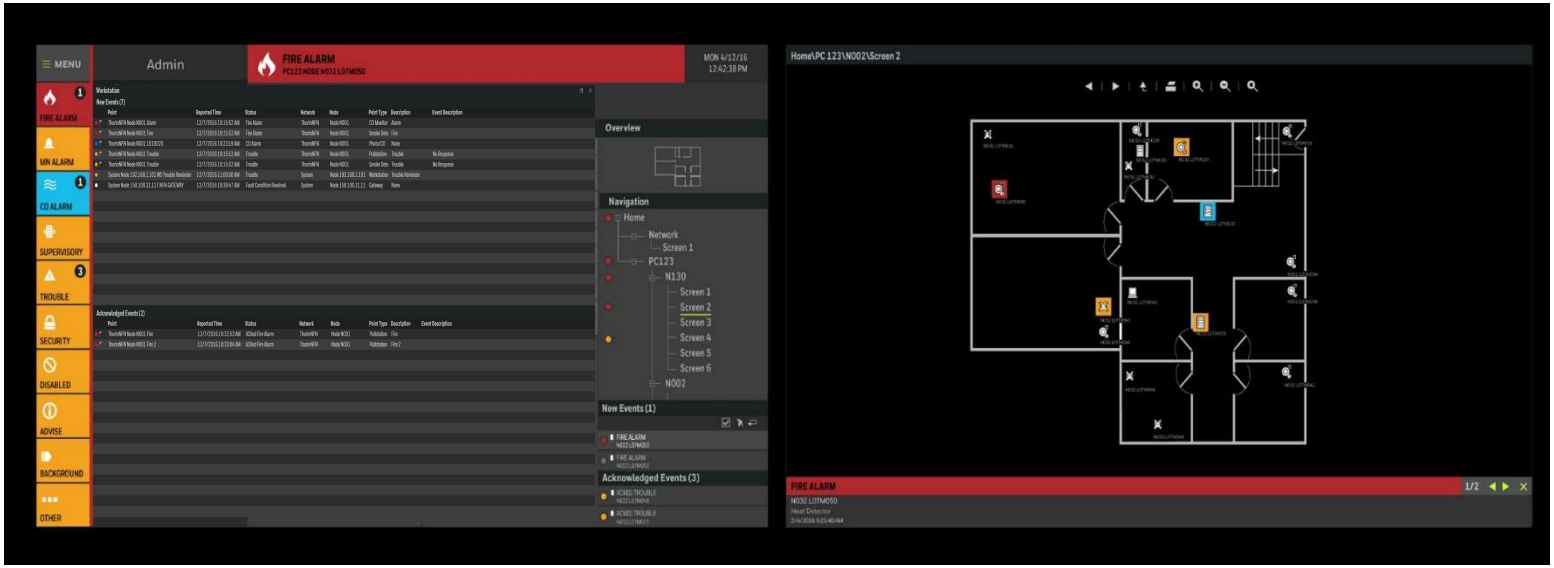


Easy event identification

ONYXWorks® - History Manager



ONYXWorks®

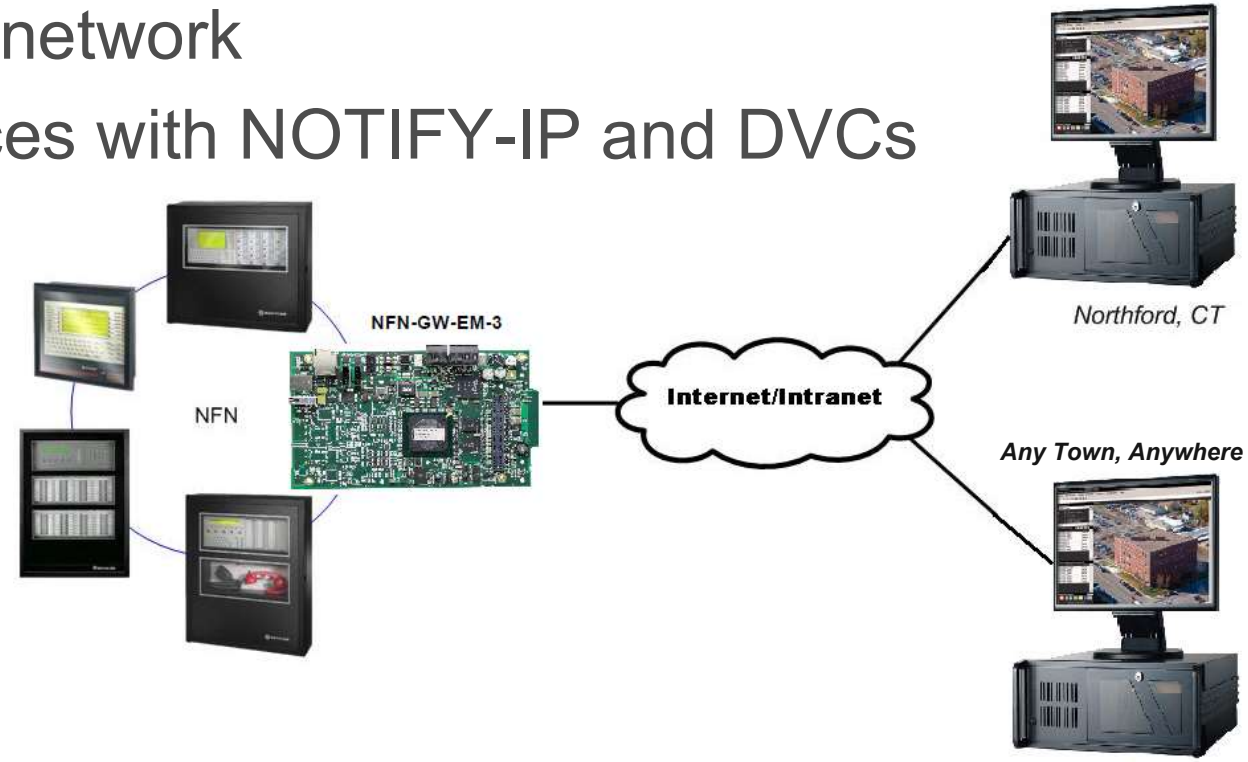


Dual Monitors

Configurable Display for Dual Monitors

ONYXWorks® – Embedded Gateway

- Can be connected via Ethernet IP using the NFN-GW-EM-3 to an entire NOTI-FIRE-NET network
- Ethernet IP connection can be on shared IP or private network
- Interfaces with NOTIFY-IP and DVCs

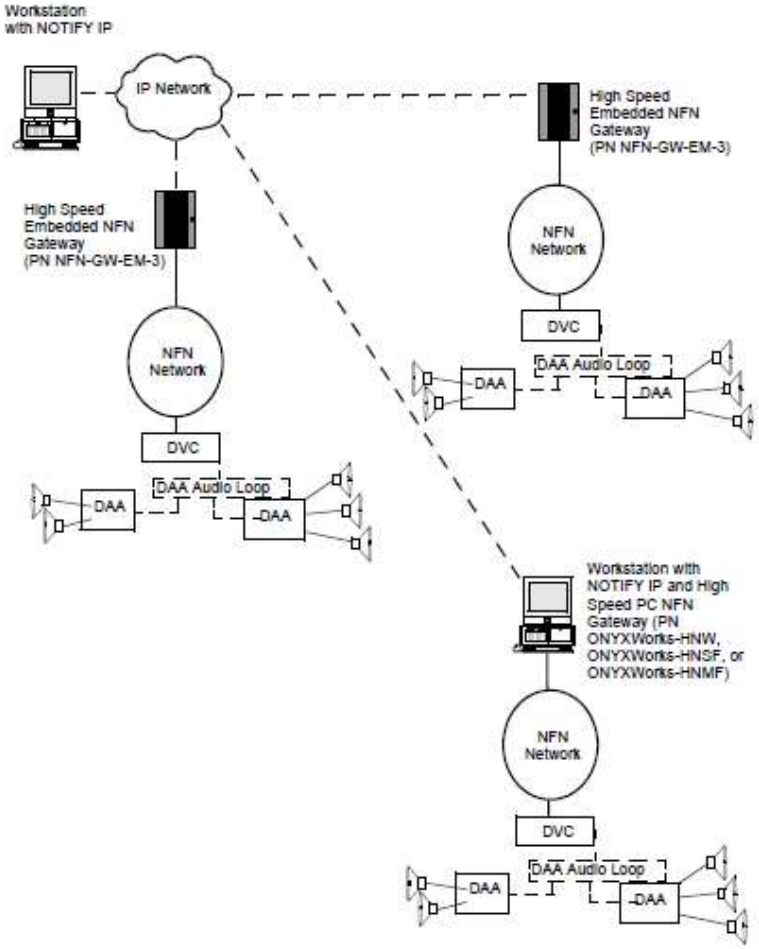


Perfect solution for Wide Area Use

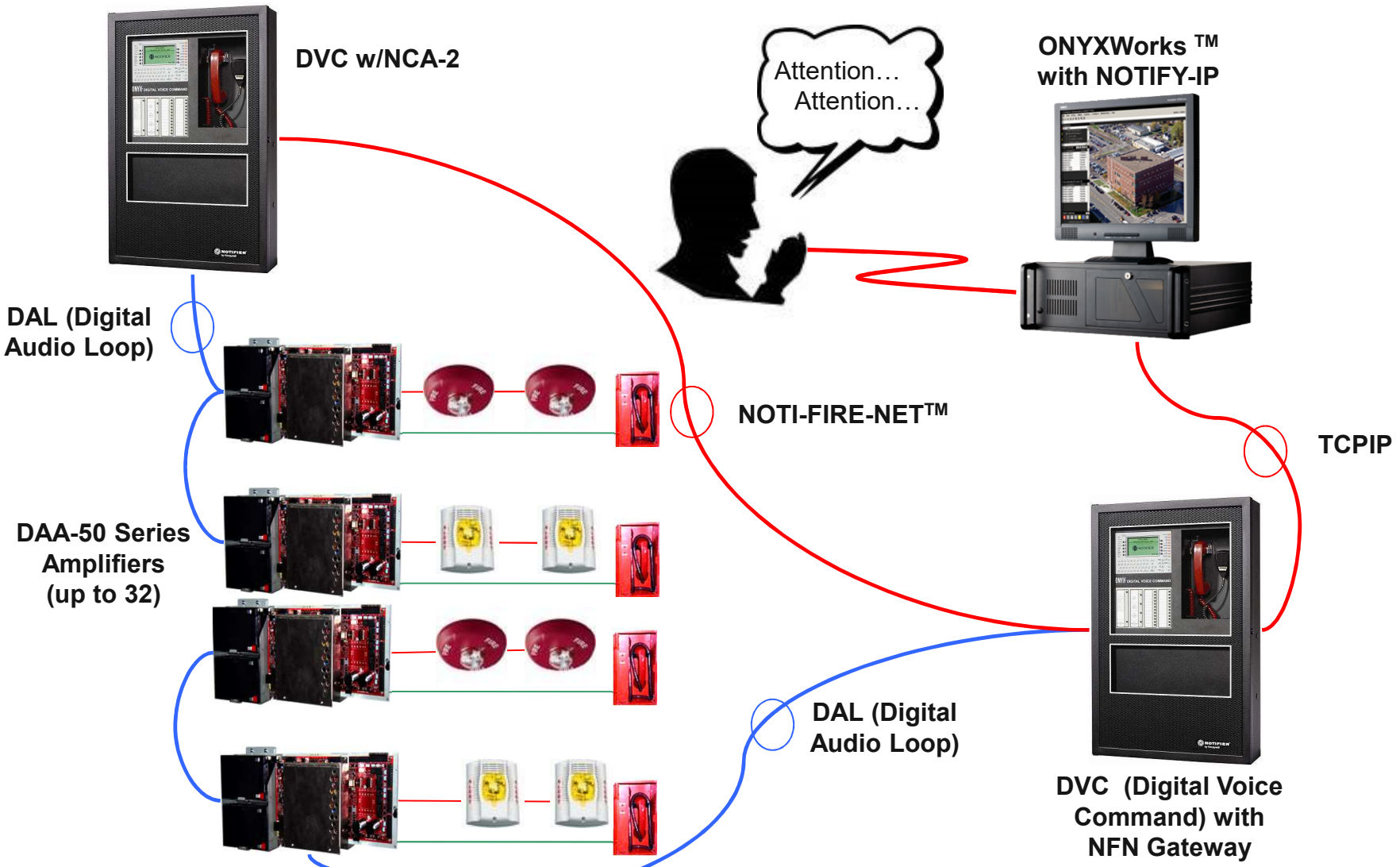
ONYXWorks® – NOTIFY-IP

- System of interconnected software and hardware that broadcasts live or prerecorded voice messages on DVCs

- NOTIFY-IP gives you:
  - Wide Area Capability
    - Country to Country
    - State to State
    - City to City
    - Large Campuses



ONYXWorks® – ECS and NOTIFY-IP



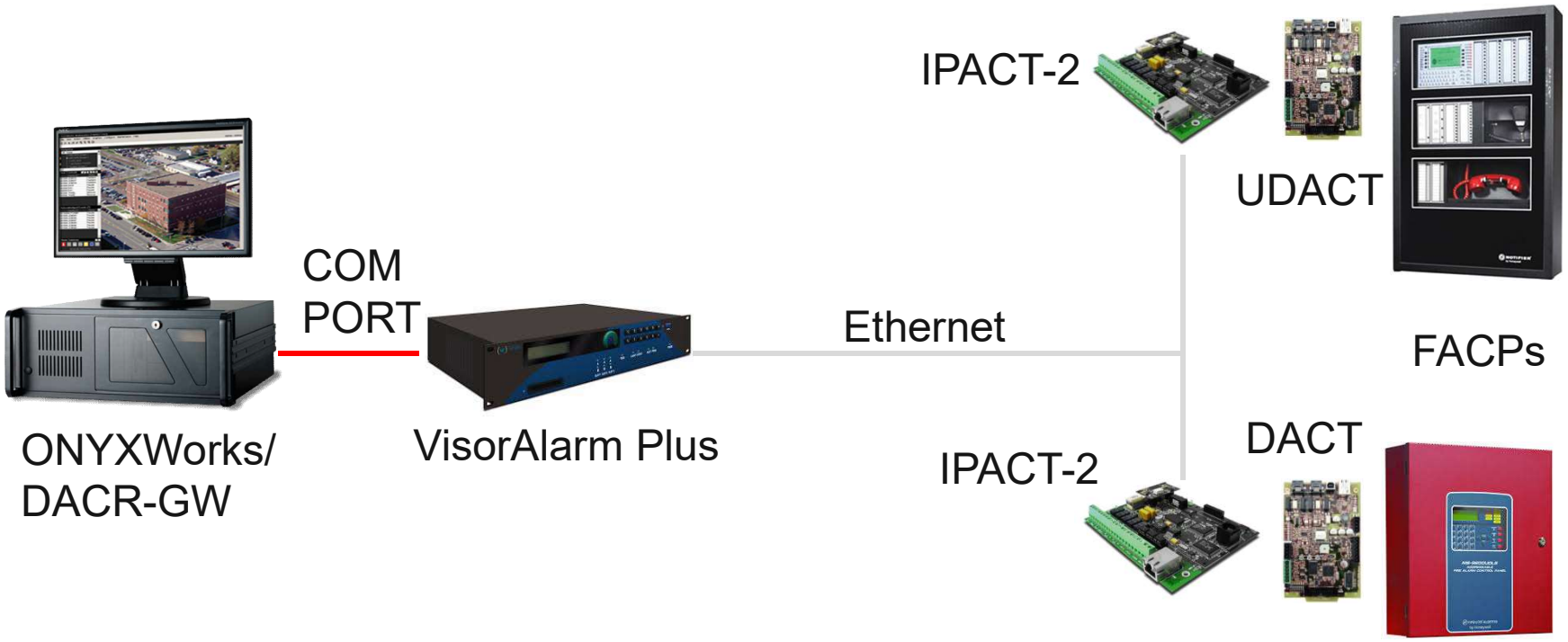
Receivers Gateway

- An intelligent gateway interface to digital alarm communicator receivers (DACR) for the ONYXWorks facilities monitoring workstation

- Enables the ONYXWorks workstation to monitor remote fire and security panels equipped with Contact ID capable digital alarm communicator transmitters (DACT) for real-time events

- Compatible with the Ademco 685, Silent Knight 9500 and 9800, Bosch D6600, and the Teldat Visor Alarm

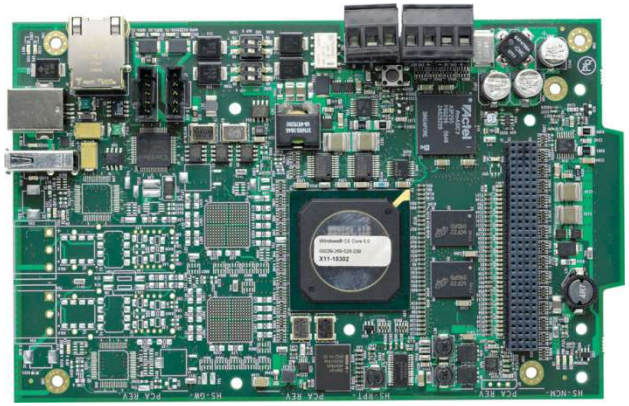
Digital Alarm Communications (DACT/DACR)



Integrate NON-NOTIFIER products into a common network for a Single Interface

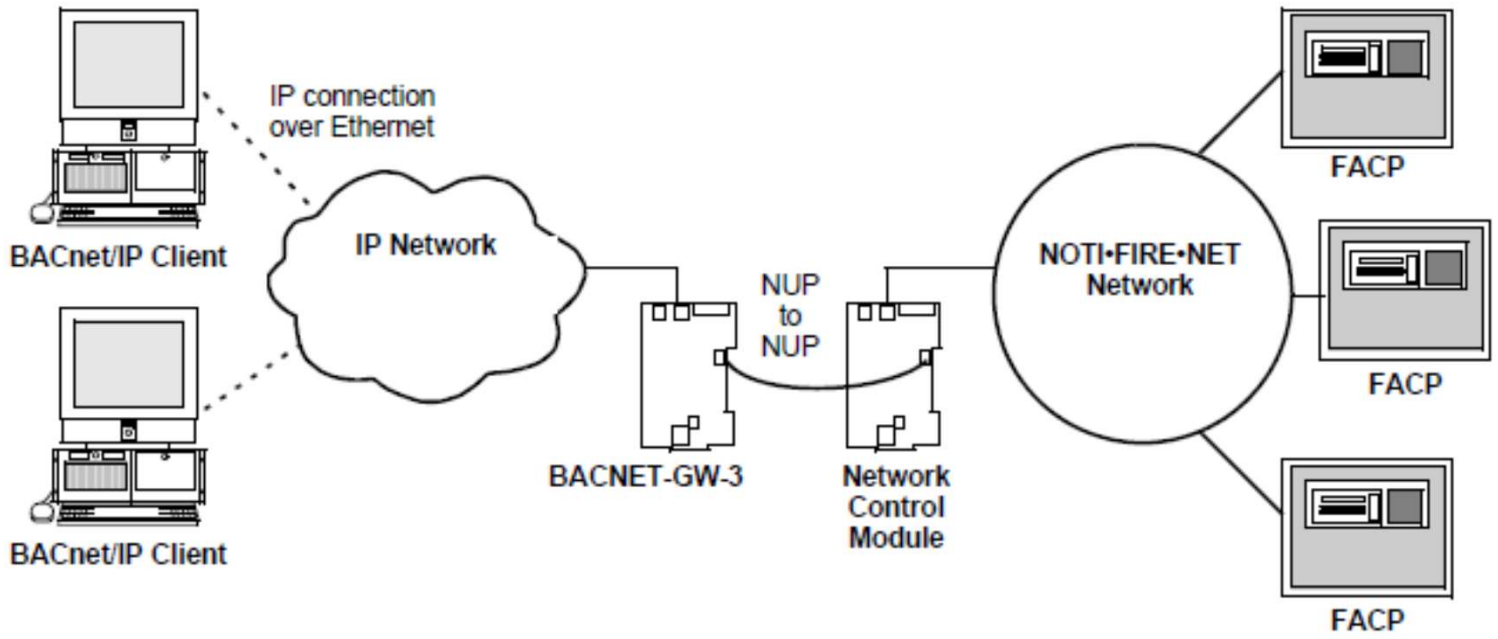
ONYX Series Integration Gateways

Product	Application
BACNET-GW-3	Integration with BACnet clients such as Building Management Systems
MODBUS-GW	Integration with Modbus clients such as DCS systems in industrial applications
CAP-GW	Integration with CAP compliant clients such as At-Hoc



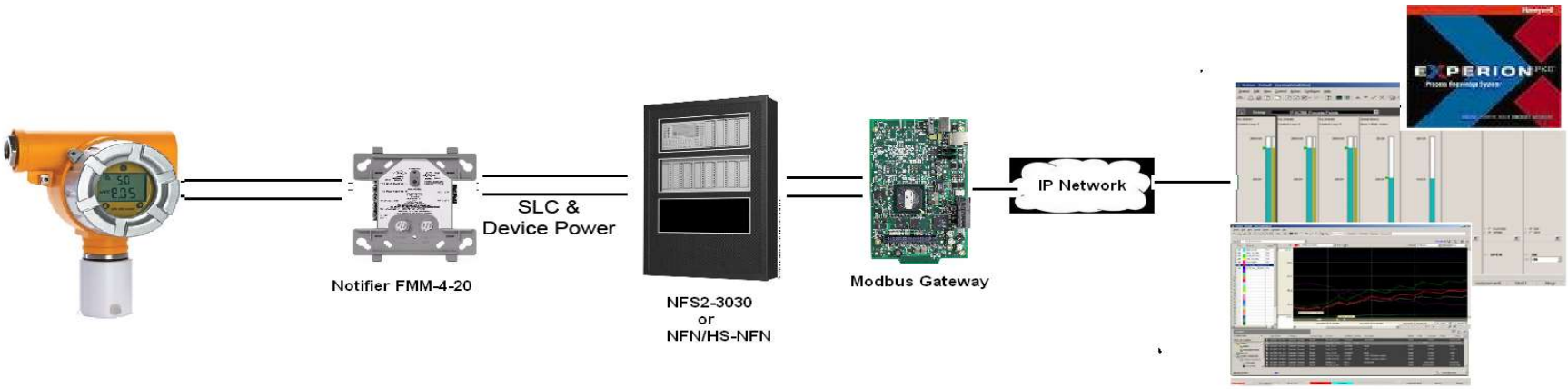
BACnet Gateway (BACNET-GW-3)

- Interface between an ONYX Series panel or NOTI•FIRE•NET and a network using the BACnet/IP communication protocol
- Panel information available to BACnet /IP Client



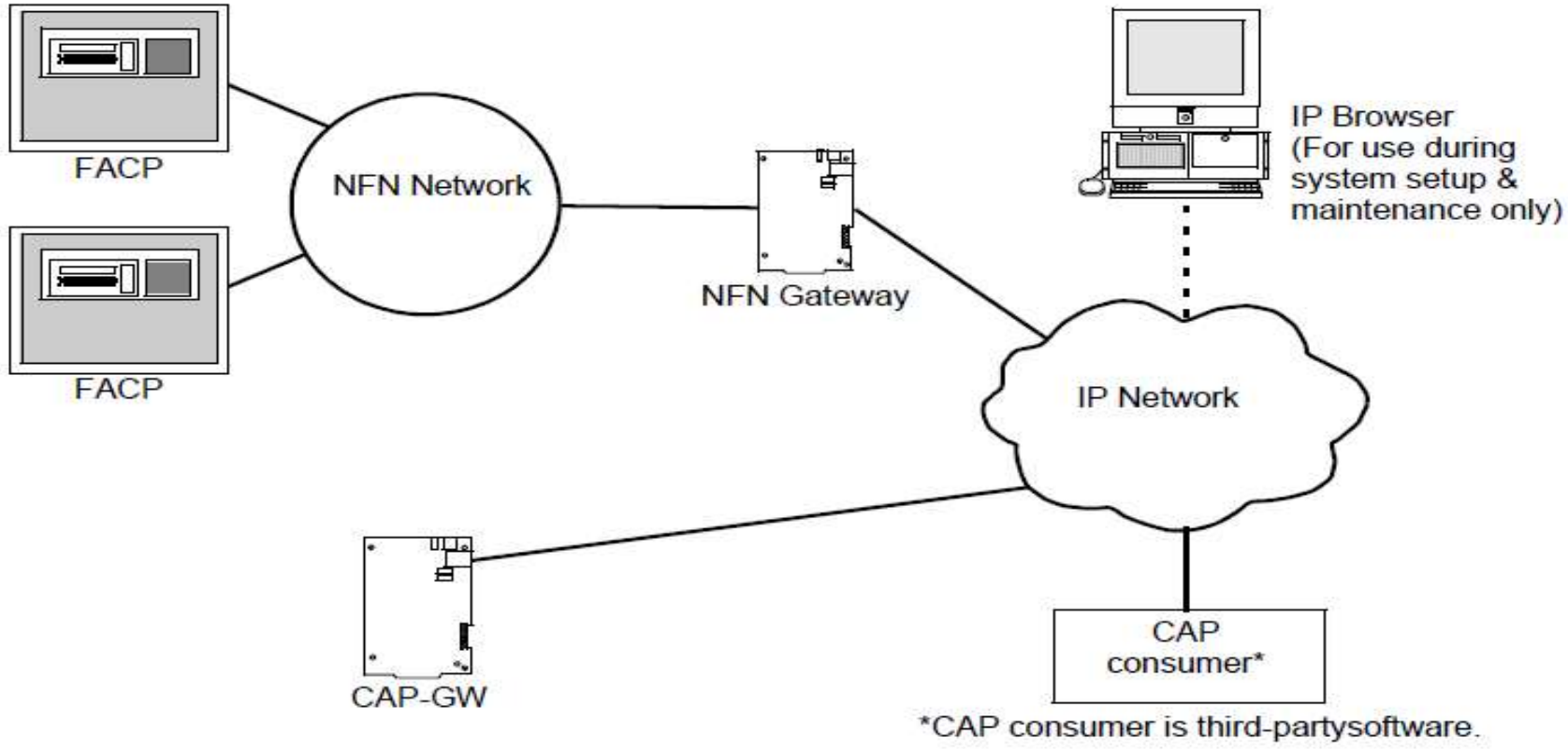
MODBUS Gateway (MODBUS-GW)

- Provides a communication link between networks that use the Modbus/TCP communication protocol and Fire Alarm Control Panels (FACPs) resident on an NFN network



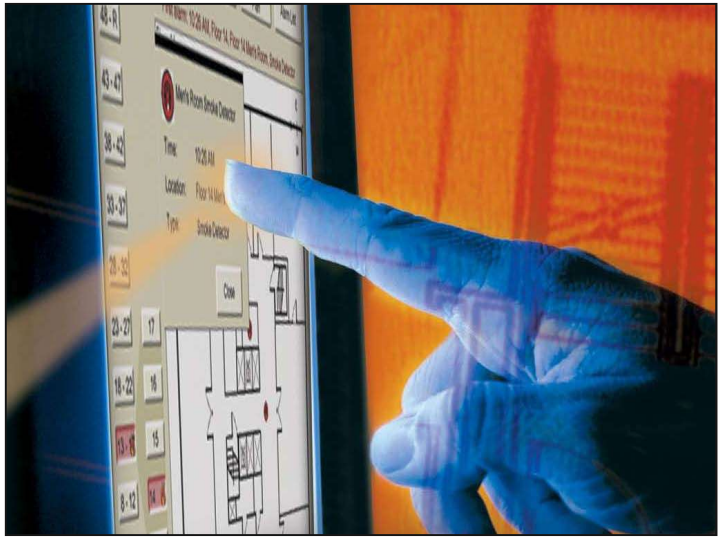
Common Alerting Protocol Gateway (CAP-GW)

- Translates event information to industry standard CAP messages for use with CAP-compliant systems



FirstVision™

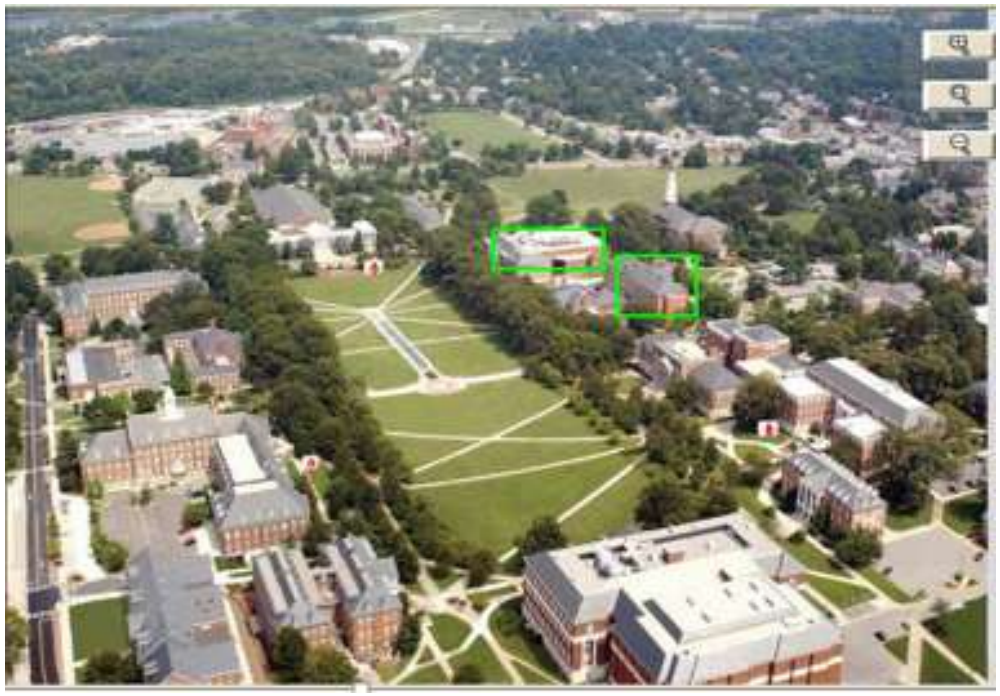
- Revolutionary navigational tool for first responders
- Intuitive, interactive touch-screen displays critical information:
  - Source and spread of fire
  - Chemical or Physical Hazards in a building
  - Water Supplies
  - Evacuation Routes
  - Access Routes
  - Gas, Power & HVAC Shut-Offs
- Common Graphic Database as ONYXWorks



Get the Whole Picture, Quickly and Accurately

FirstVision™

- Campus view highlights areas of concern
- Auto-navigation to event floor plan location
- Time sequence display tracks progression of a fire



Critical Information. Rapid Assessment. Effective, Strategic Response.

FirstVision™

- Graphic and Text display of:
  - ✓ Fire
  - ✓ Supervisory
  - ✓ Security
  - ✓ Medical events
- Interfaces with ONYX Series panels or NOTI-FIRE-NET over Ethernet
- 22” LCD Touch-screen



NOTIFIER®
by Honeywell

QUICKLY IDENTIFY AND RESPOND TO EMERGENCY EVENTS

NOTIFIER Emergency Communication Systems

Value

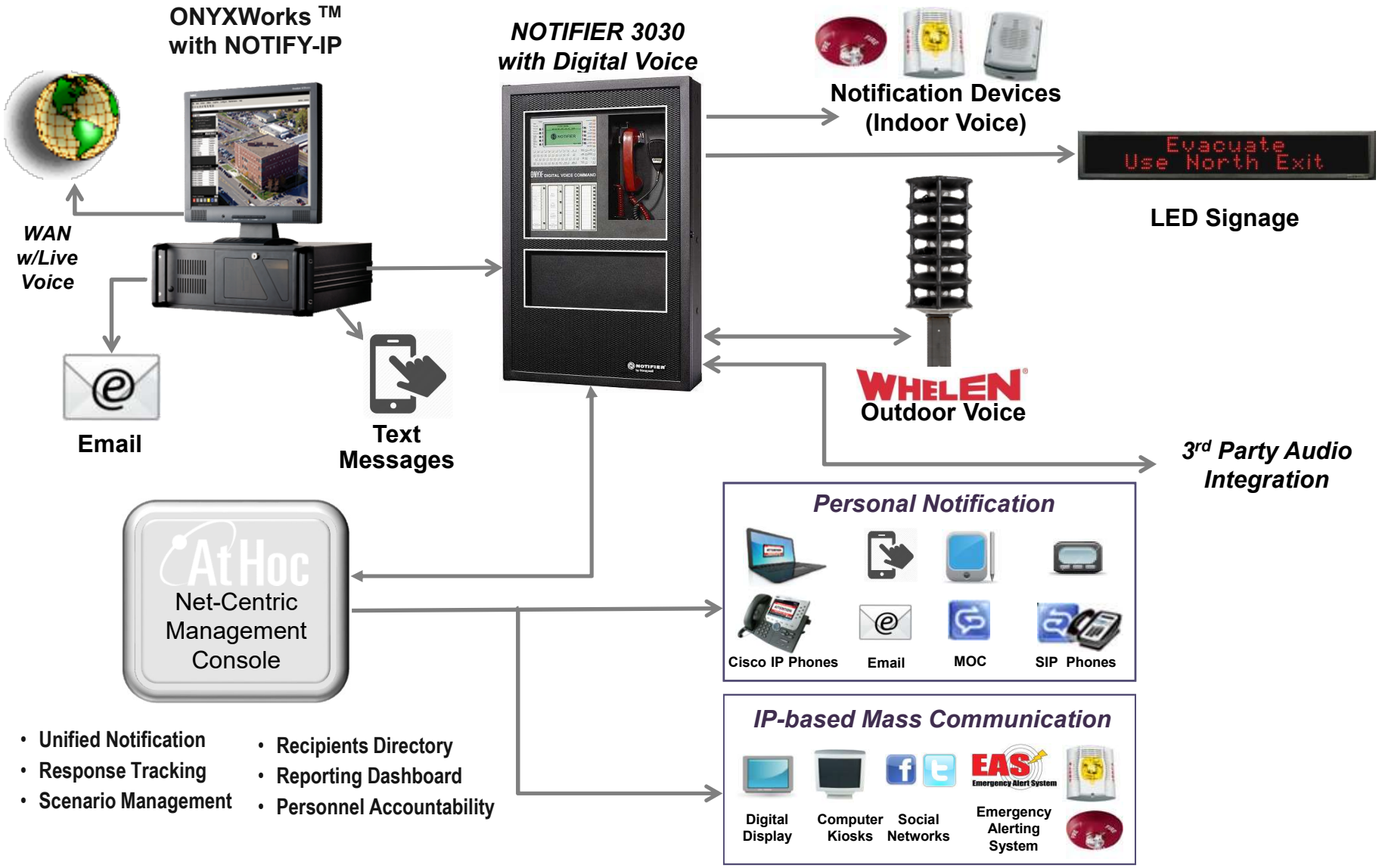
- Up-to-the minute information
- Inform everyone
- Reduce risk
  - Save lives
  - Save property

Solution

- Digital Voice Command
- Broadcasting live
  - Building
  - Campus
  - Multi-building spread across a city/state/global
- Integrated, Expandable systems

Protect What Matters Most

Fire Alarm & Emergency Communication Systems



- Unified Notification
- Response Tracking
- Scenario Management

- Recipients Directory
- Reporting Dashboard
- Personnel Accountability

NOTIFIER ECS: Digital Voice Command (DVC)

- Integrate with single FACP or part of Noti-Fire-Net
- 8 channel digital audio
- Supports Firefighters Telephone
- Local or Remote Paging
- Analog Audio Option
- Voice over IP Option
- Integration with Third Party Systems: LED signage and Whelen “Giant Voice” outdoor speakers
- Full line of indoor and outdoor speakers



Typical Applications:

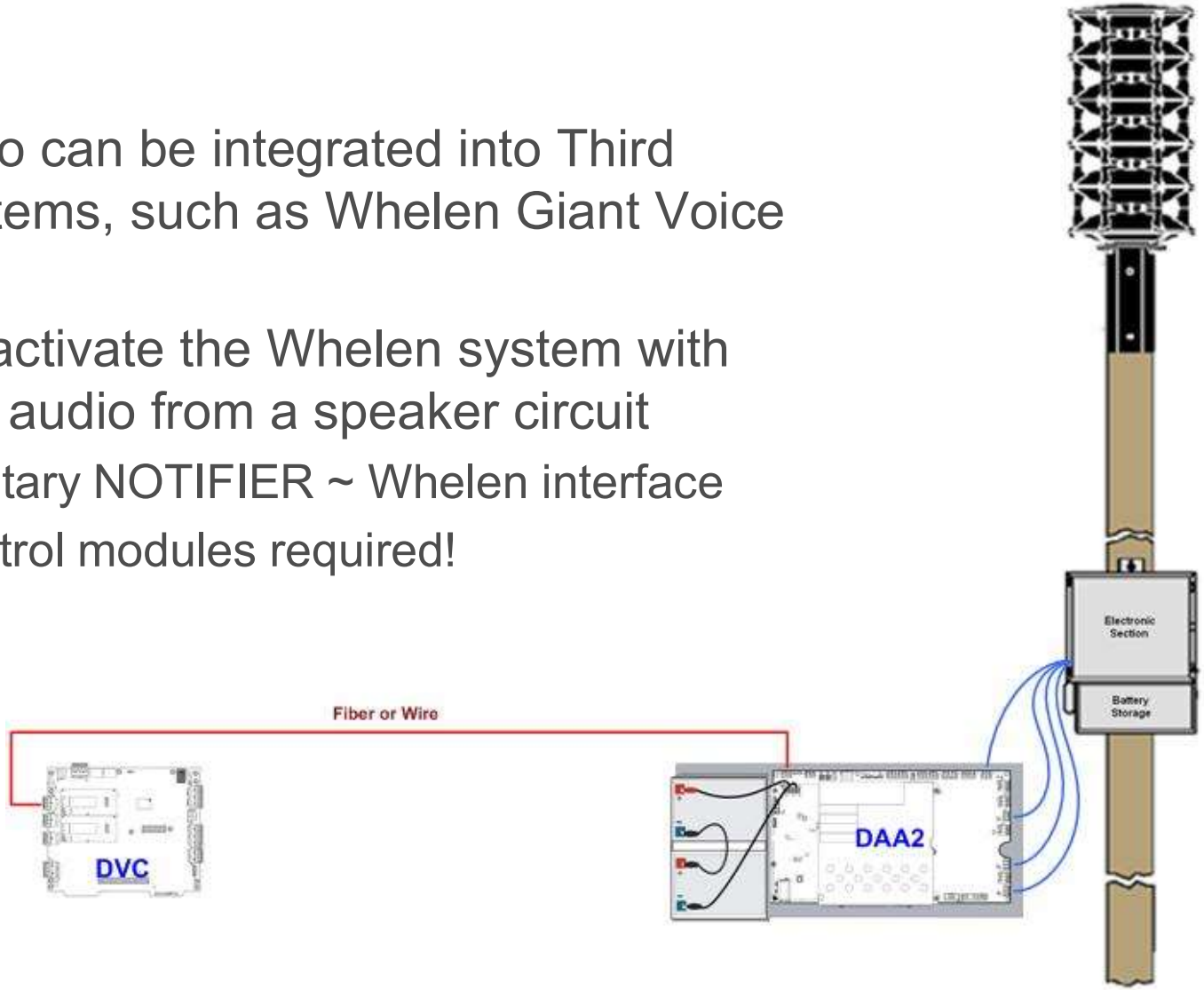
• High Rise Buildings • College/University Campus
• Hospitals • Airports • Hotels
• Shopping Malls • Sports Arenas • Manufacturing Facilities

NOTIFIER ECS: DVC

- Up to 32 Digital Audio Amplifiers can be connected to a DVC center
  - Each Digital Audio Amplifier is configurable as a primary or backup amplifier
- Larger applications can be accommodated with additional DVC centers
  - Each networked DVC adds support for another 32 Digital Audio Amplifiers
  - Applications requiring hundreds of audio zones can be created by networking DVC centers over NOTI•FIRE•NET™
- NOTI•FIRE•NET with DVC provides
  - Added survivability and scalability
  - Multiple command center support
  - System expansion

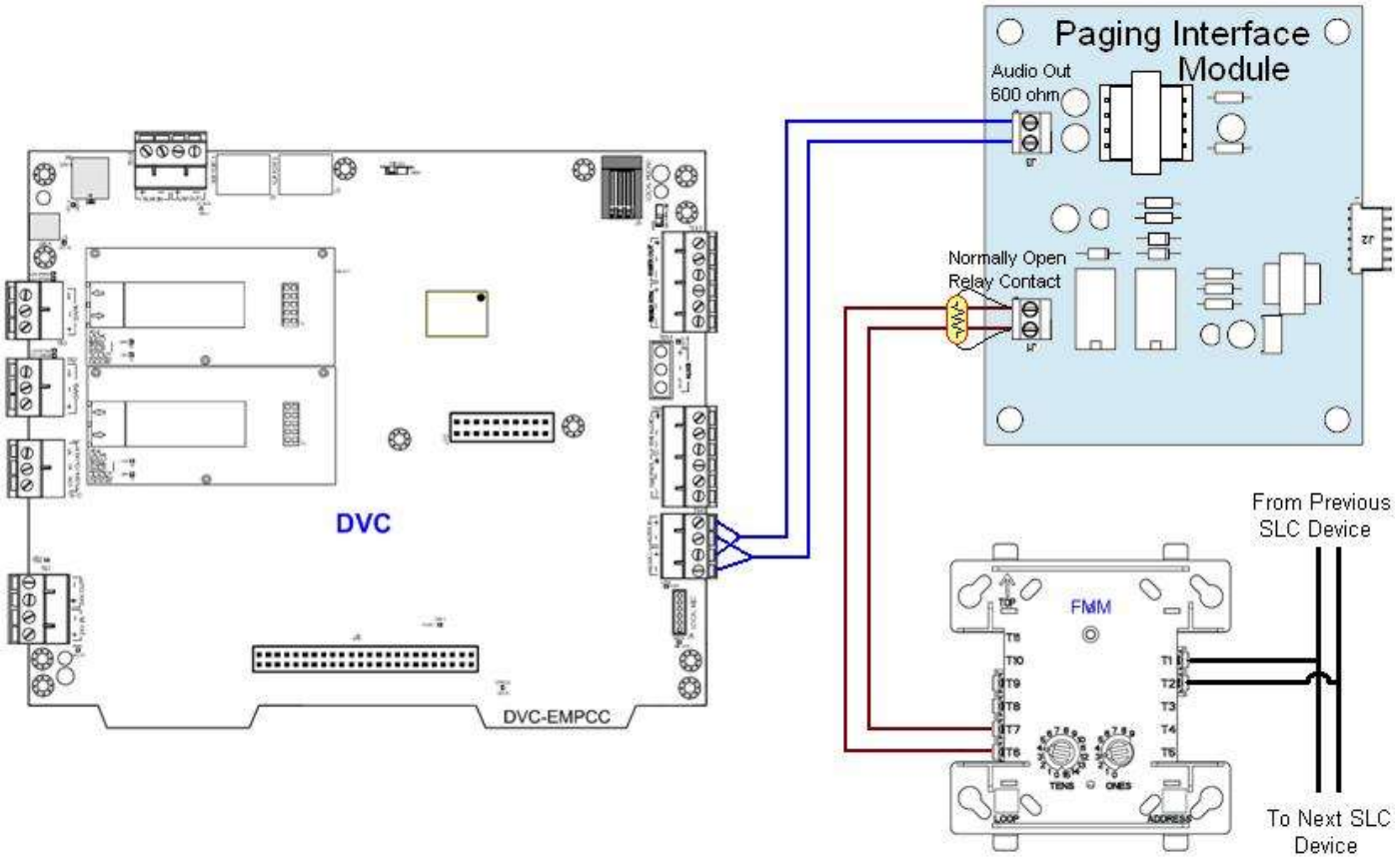
Third Party Integration

- DVC audio can be integrated into Third Party systems, such as Whelen Giant Voice
- Ability to activate the Whelen system with high level audio from a speaker circuit
  - Proprietary NOTIFIER ~ Whelen interface
  - No control modules required!



DVC Third Party Integration

- Third Party Audio, such as Whelen Giant Voice, can be easily integrated into the DVC



Digital Intelligent Signage

Value

- Pre-programmed or customizable emergency messages – examples:
  - Security Breach Reported
  - Lock Down
  - All Clear
- Emergency messages displayed throughout a facility for company personnel or visitors

Solution

- Supplements emergency voice messaging with visual signage
- Fully integrated and supervised by ONYX panels and ONYXWorks
- UL-listed LED signs and ONYX gateway

Effective solution for the hearing impaired/high ambient noise areas

LEDSIGN-GW: ONYX integration gateway

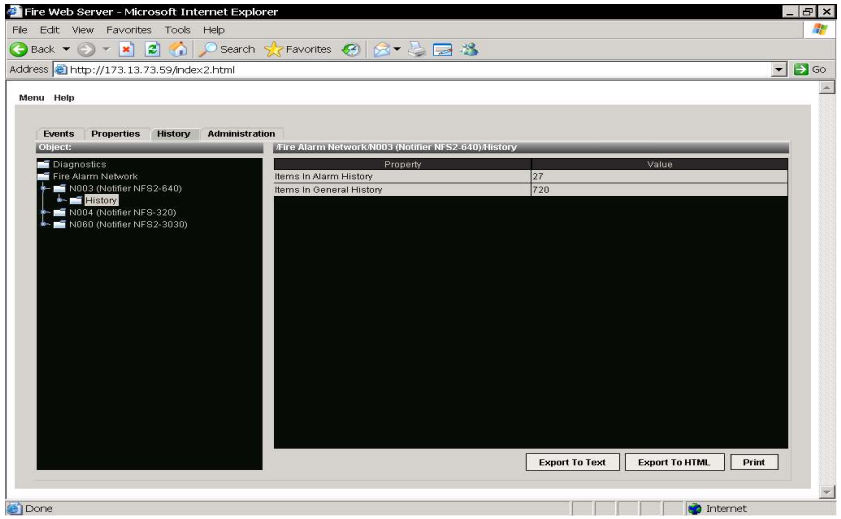
- Up to10 LED signs per gateway
- Each sign can display a unique message based on programming
- Encrypted communications to the sign
- Bright LEDs with wide viewing angle



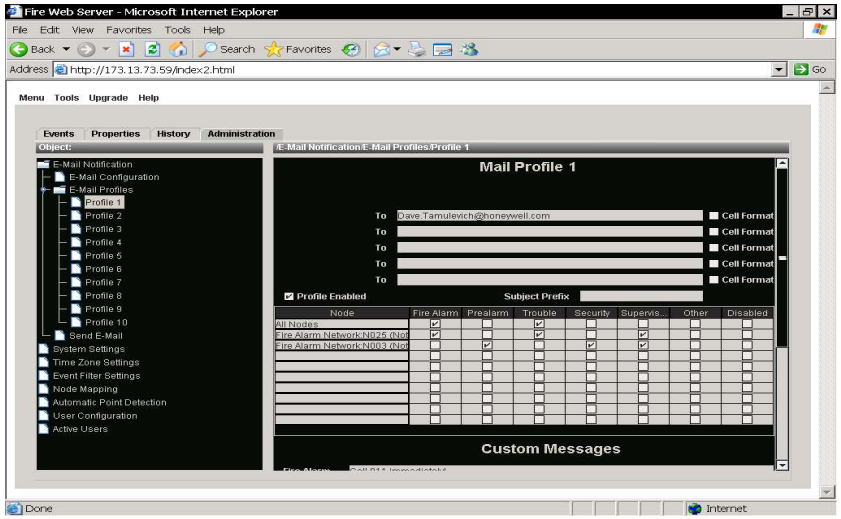


NOTIFIER Web Server Gateway (NWS-3)

- Access FACP status remotely over the internet or intranet
- Send automatic emails or text messages (up to 50)



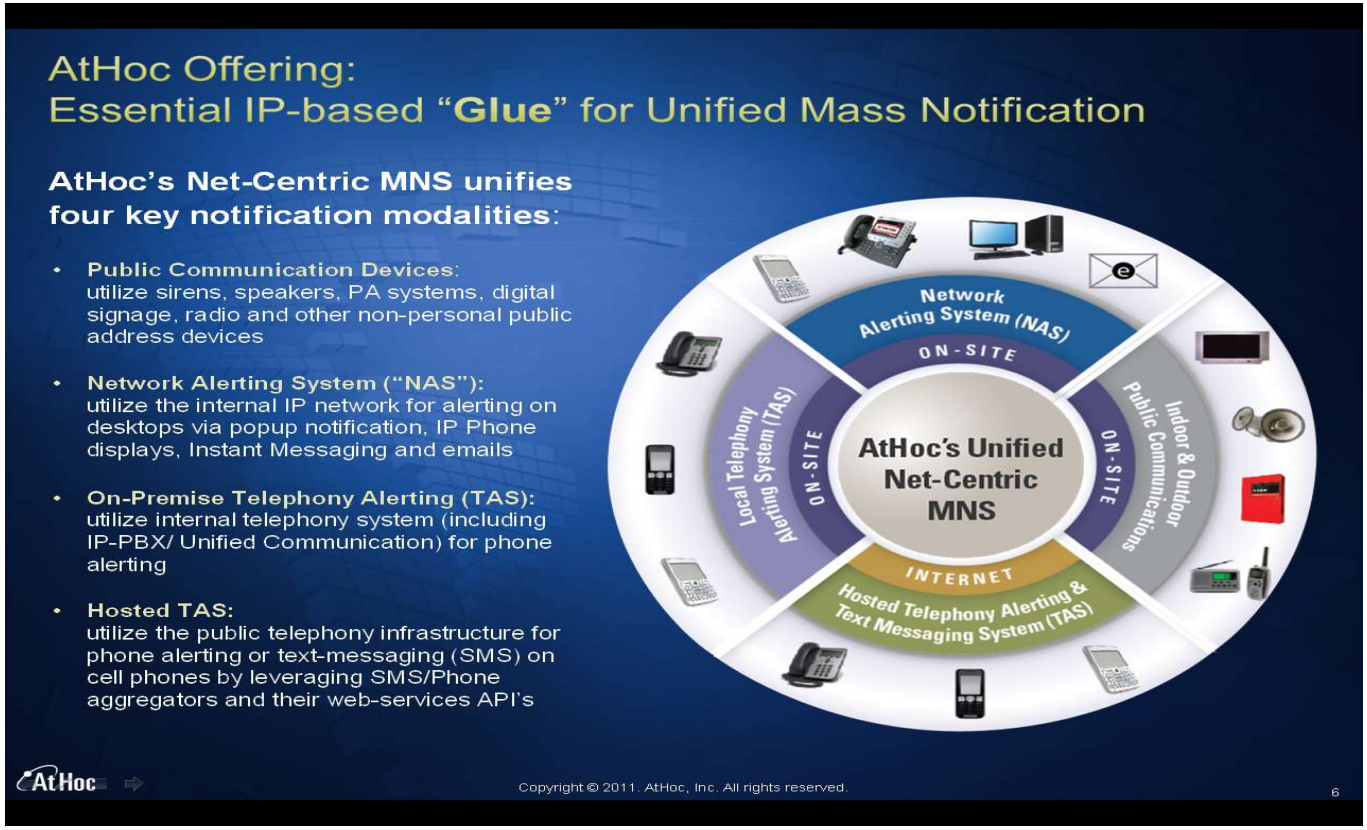
View History Remotely



Email Profile Configurations

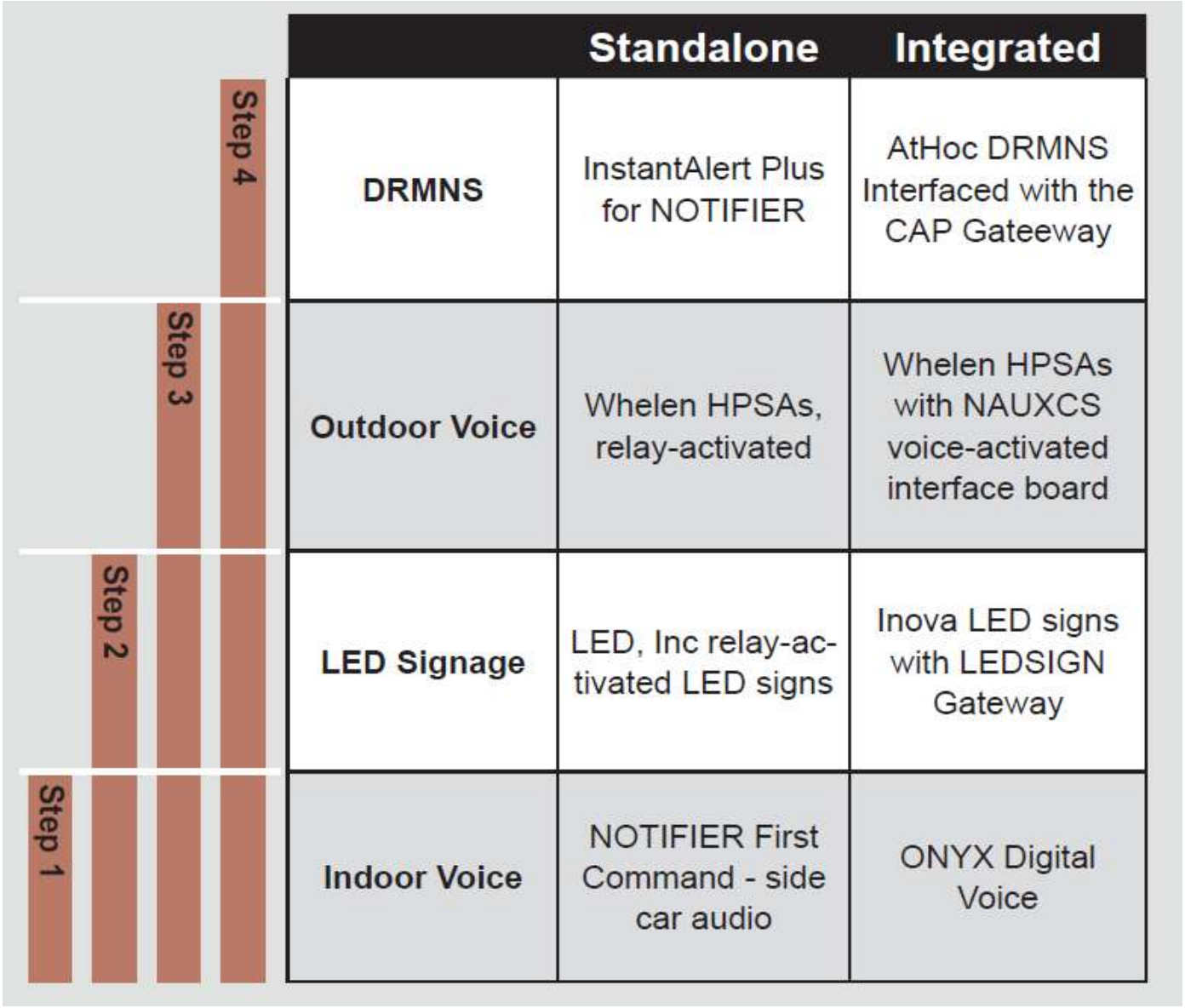
NOTIFIER ECS: Distributed Messaging

- At-Hoc
  - Integrates with NOTIFIER via the CAP-GW



Progression of effectiveness in ECS technology

Ranging from indoor voice systems to full DRMNS functionality



	Standalone	Integrated
DRMNS	InstantAlert Plus for NOTIFIER	AtHoc DRMNS Interfaced with the CAP Gateeway
Outdoor Voice	Whelen HPSAs, relay-activated	Whelen HPSAs with NAUXCS voice-activated interface board
LED Signage	LED, Inc relay-activated LED signs	Inova LED signs with LEDSIGN Gateway
Indoor Voice	NOTIFIER First Command - side car audio	ONYX Digital Voice

NOTIFIER®
by Honeywell

SOLVE UNIQUE DETECTION PROBLEMS

Subtitle Here

Advanced Intelligent Detection

Value

- Separate pre-alarm from general evacuation alarm condition
- Prevent costly disruptions
- Reduced material and labor costs
- Simplified installation
- Remote test feature
- Quickly pinpoint location
- Limit damage

Solution

- Self-optimizing heat & smoke detectors combining thermal and photoelectrical technologies
- Intelligent, multi-criteria detector capable of sensing all four major signatures of a fire
- Highly sensitive detector 100 times more sensitive than standard photoelectric smoke detectors

Standard Detection to Very Early Warning Detection

ONYX Intelligent Sensing Devices

- Advanced Detectors – Widest range in the industry
  - ACCLIMATE™ Plus
  - IntelliQuad™
  - IntelliQuad PLUS™
  - VIEW™
  - Intelligent FAAST
  - SWIFT Wireless



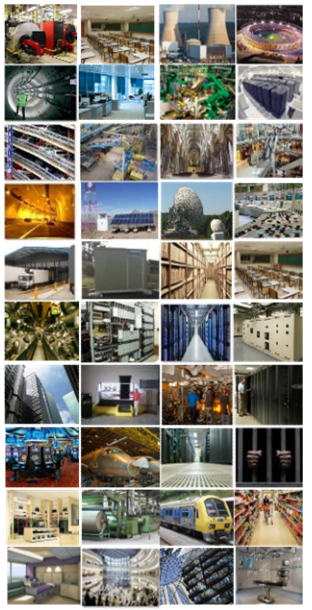
Advanced Aspiration Detection

The broad and rapid development of safety solutions has allowed Advanced Detection ASD to expand from a few, targeted markets & applications to many…











VESDA Xenon

VESDA Laser

VESDA VLI

OSID

VESDA ECO

VLC-EX

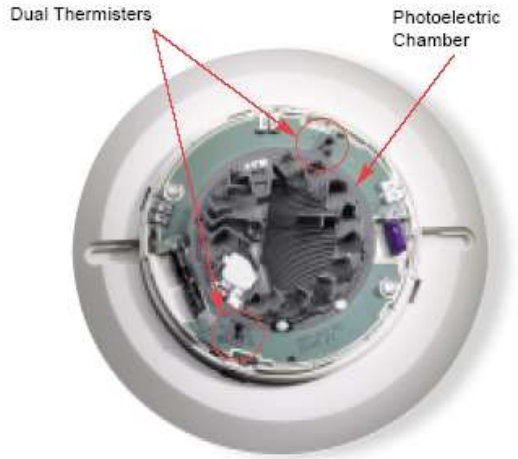
VESDA 三

FAAST

VESDA 三 VEA

Acclimate Plus – FAPT-851

Over time, facilities are often used for many different purposes, forcing choices in fire detection that can mean reduced sensitivity or increased nuisance alarms



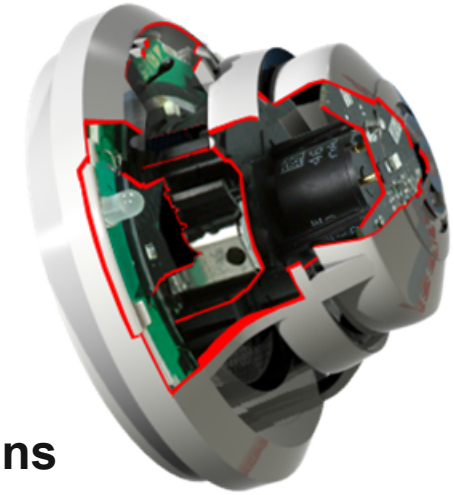
- Acclimate Plus constantly monitors ambient conditions, adjusting detection parameters and alarm thresholds automatically
- Combines thermal and photoelectric technologies to maximize detection across a broad range of fire types
- Photo-Thermal design
  - Chamber sensitivity increases with heat.
  - Heat only option
  - Freeze warning

Provides maximum detection and reduced nuisance alarms

IntelliQuad – FSC-851 (Multi-Criteria Detector)

- Using four sensing elements working together to address each element of a fire
- Most accurate detection of the widest range of fires
  - Target building owners – especially those with a vested interest in maintaining operations or a progressive attitude toward fire protection
  - Target specific building areas – those prone to nuisance alarms or where down time is financially burdensome

Photoelectric smoke sensing
(Particulate)



Thermal heat sensing
(Heat)

CO sensing
(CO)

(Coordination)
Advanced time & logic functions

Infra-red light sensing
(Light from flame)

Best in class nuisance alarm immunity

IntelliQuad PLUS (FCO-851)

- Maintains IntelliQuad advanced multi-criteria detection for smoke
  - Photoelectric
  - Thermal
  - Carbon Monoxide
  - Infrared
- The carbon monoxide sensor provides a separate CO signal to the panel
- Superior nuisance alarm rejection
- Utilize B200S/B200S-LF* base for Temp- 4 or Temp- 3 sound output
  - With synchronization of either tone pattern
  - Sync the Temp-3 tone with Notification Zone or General Alarm appliances

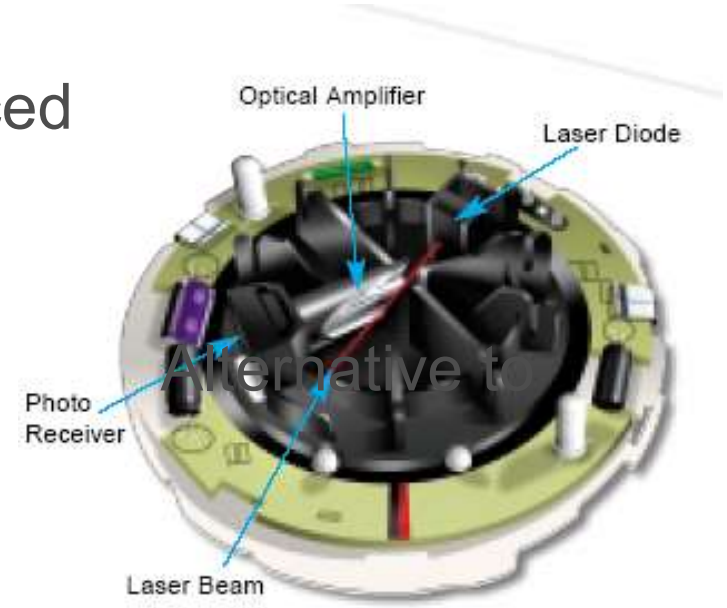


B200S-LF is UL listed/approved for Low Frequency applications

Over 50% of states presently require some level of CO detection, with more states adopting every year

VIEW (Very Intelligent Early Warning) - FSL-751

- VIEW laser system has an advanced laser light source and patented optical design
- Addressable, spot detector. aspirating systems in critical environments
- Sensitivity that is 10 to 50 times higher than present photoelectric technology
- Adjustable sensitivity of pre-alarm and alarm levels from 2.0%/ft. to .02%/ft. obscuration



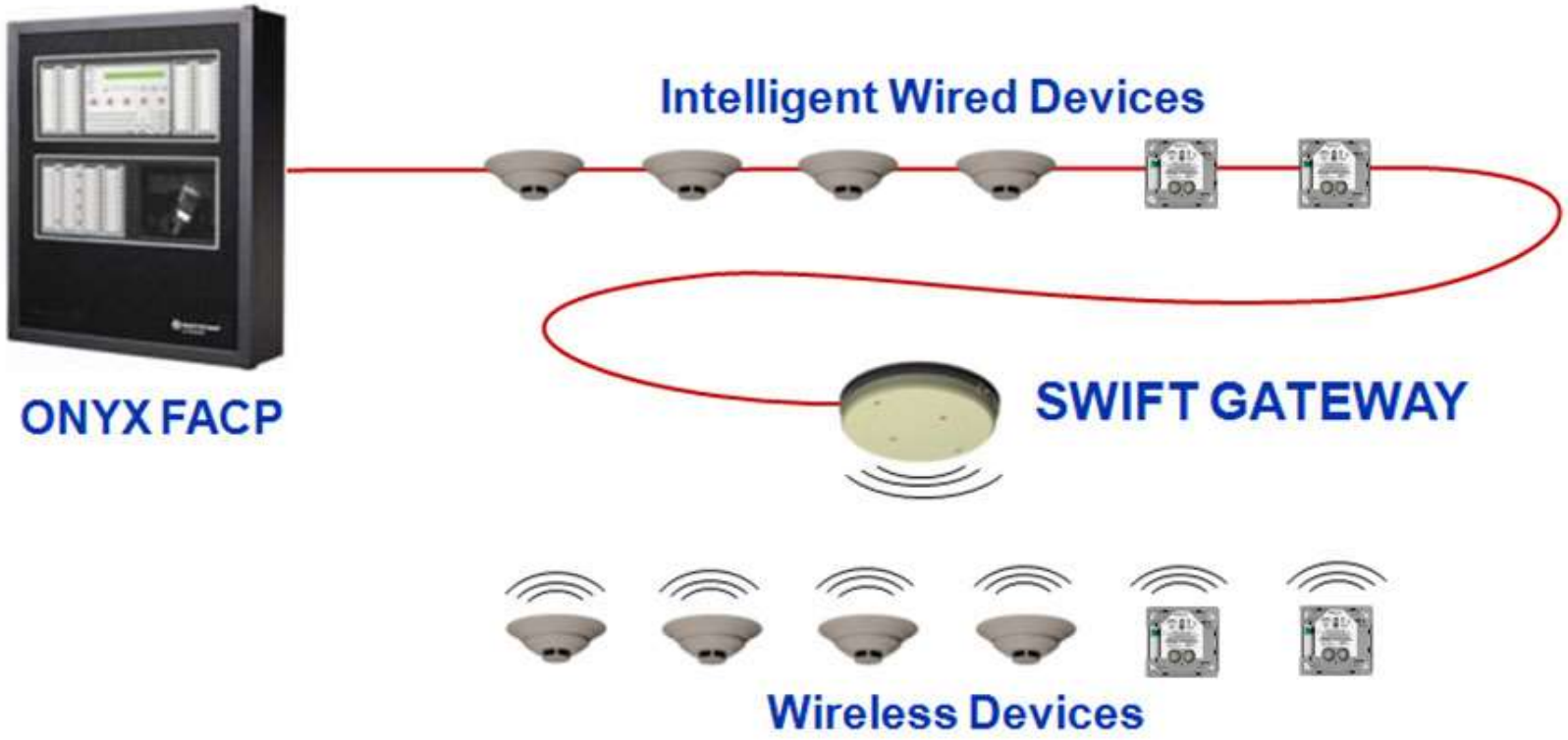
Provides appropriate response in the most critical applications

Applications for ONYX Intelligent Sensing Devices

Applications	Good	Better	Best
Commercial Sleeping Spaces	Acclimate Plus™	IntelliQuad™	IntelliQuad Plus™
MRI Rooms			Intelligent FAAST™
Telecom Switching Rooms	Acclimate Plus™		VIEW™ Intelligent FAAST™
Server Rooms			VIEW™ Intelligent FAAST™
Large Data Centers		VIEW™	Intelligent FAAST™
Large Open Spaces			Intelligent FAAST™ Beam
Theater Smoke		IntelliQuad Plus™	IntelliQuad Intelligent FAAST™
Dirty	Acclimate Plus™		IntelliQuad™ Intelligent FAAST™
Temperature Extremes	Beam		Intelligent FAAST™
Kitchens		Acclimate Plus™	IntelliQuad™
Swimming Pools		Beam Intelligent FAAST™	
Locker Rooms	Acclumate Plus™		IntelliQuad™
Boiler Rooms	Acclimate Plus™	IntelliQuad™	IntelliQuad Plus™
Parking Garages	Beam	IntelliQuad™	Intelligent FAAST™
Laundry Rooms		Acclimate Plus™ IntelliQuad™	IntelliQuad Plus™
Semi-fabs			Intelligent FAAST™ VIEW™
Commercial Livestock Facility		IntelliQuad™ Beam	Intelligent FAAST™
Surgical Suite		Acclimate Plus™	IntelliQuad™

SWIFT Wireless

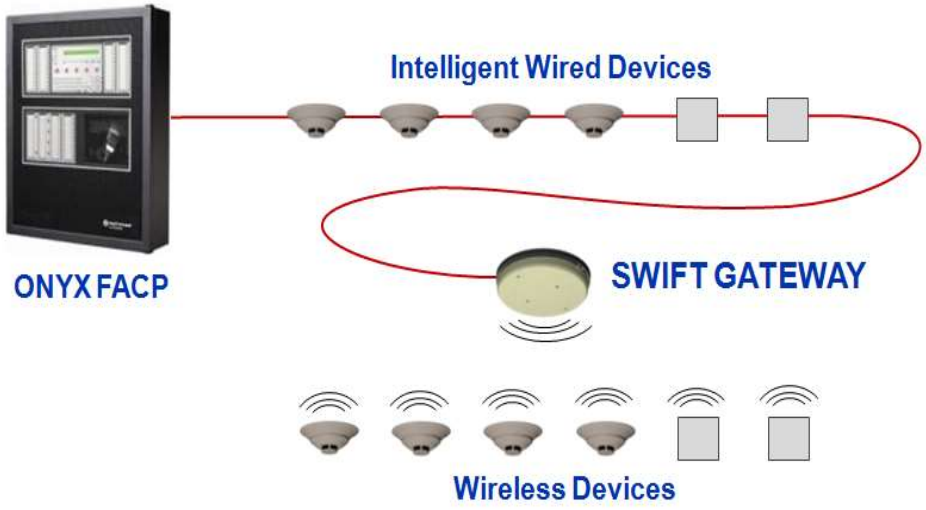
- **S**mart **W**ireless **I**ntegrated **F**ire **T**echnology
  - Patented proprietary wireless Mesh protocol



For life safety and property protection in challenging environments

NOTIFIER's SWIFT Wireless Overview

- SWIFT enables a Fire Alarm/Life Safety System to be hybrid configuration
  - Wired Intelligent Addressable Devices
  - Wireless Intelligent Addressable Devices
    - Consistent aesthetics as wired devices
    - Same addressing and programming parameters as wired devices



SWIFT Components



NFS-320
318-Points Addressable

NFS2-640
636-Points Addressable

NFS2-3030
3,180-Points Addressable

FWSG



Used for communication to/from devices and panel

FW-MM



Module

FW-RM



Relay Module

FWD-200P



Photo

FWD-200ACCLIMATE



Acclimate

FWH-200FIX135



Heat

FWH-200ROR135



Heat Rate-of-Rise

SWIFT TOOLS & W-USB



NOTIFIER®
by Honeywell

LOW FREQUENCY

Subtitle Here

Solutions for Low Frequency

- Low Frequency Sounders
- Low Frequency Sounder Base
- Low Frequency Tones through Speakers







Low Frequency Audible Solutions

Sounder Bases

- B200S-LF (Intelligent, Addressable, Programmable)
  - Multiple Tones: Continuous, March Time, Temporal 3, and Temporal 4
  - Selectable volume: Low = 75 dB, High = 85 dB
  - Synchronization with System Sensor AV devices



- B200SR-LF (Conventional)
  - Tones: Continuous and Temporal 3
  - Can take the place of older B501BH series or non-LF B200SR

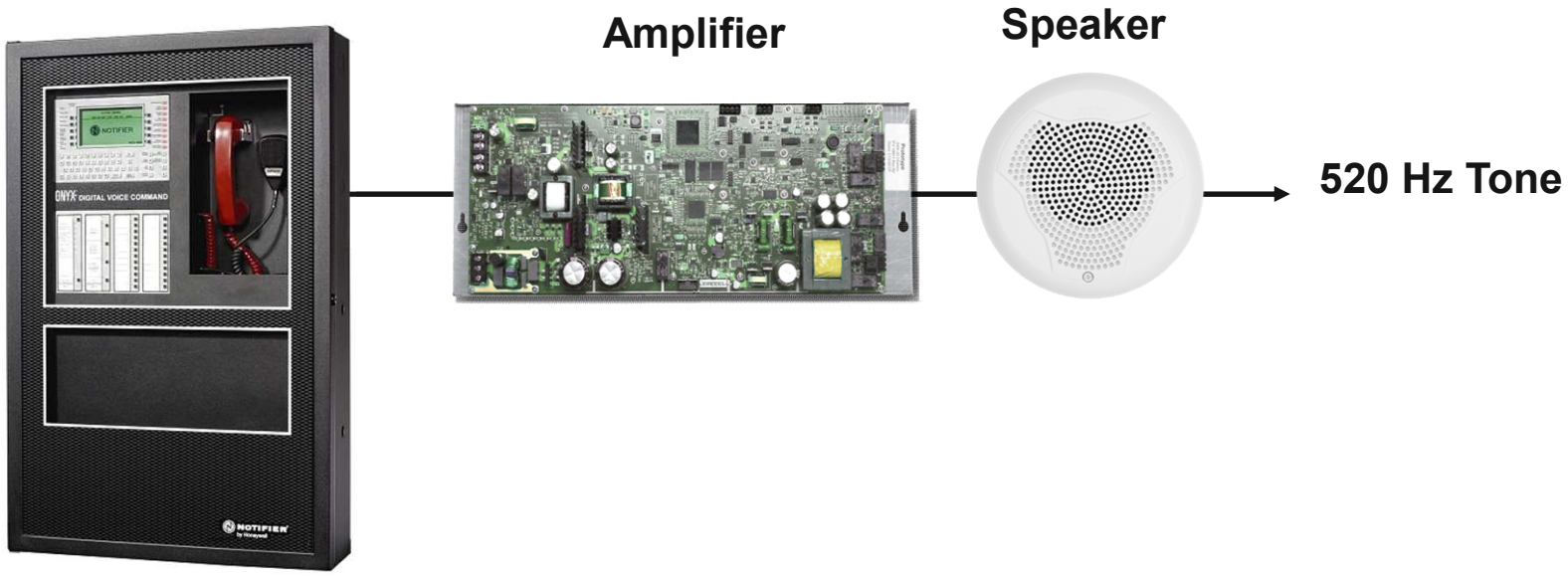


Low Frequency Through Speakers

DID YOU KNOW?

All components involved in producing Low Frequency Tone must be tested to obtain UL listing

Fire Alarm Control Panel



DVC Low Frequency Documentation

- DVC and Digital Audio Amplifier Manuals address DVC and compatible amplifiers
- Device Compatibility Document addresses compatible System Sensor Speakers and Speaker-Strobes

■ **UL 864 Low-Frequency Sounder Compliance**

This product complies with the requirements for a low frequency sounder (520Hz) as specified in UL 464 when used as part of a system with the following amplifiers, communication devices, audio files, and speakers.

Amplifiers:

Amplifier Combination	Description
DAA2-5025 with or without a BDA-25V	DAA2-5025: 120VAC 25V_{RMS} digital audio amplifier BDA-25V: 25V_{RMS} backup digital audio amplifier
DAA2-5070 with or without a BDA-70V	DAA2-5070: 120VAC 70V_{RMS} digital audio amplifier BDA-70V: 70V_{RMS} backup digital audio amplifier
DAA2-7525 with or without a BDA-25V	DAA2-7525: 120VAC 25V_{RMS} digital audio amplifier BDA-25V: 25V_{RMS} backup digital audio amplifier
DAX-5025 with or without a BDA-25V	DAX-5025: 120VAC 25V_{RMS} digital audio amplifier BDA-25V: 25V_{RMS} backup digital audio amplifier
DAX-5070 with or without a BDA-70V	DAX-5070: 120VAC 70V_{RMS} digital audio amplifier BDA-70V: 70V_{RMS} backup digital audio amplifier
DAX-3525 with or without a BDA-25V	DAX-3525: 120VAC 25V_{RMS} digital audio amplifier BDA-25V: 25V_{RMS} backup digital audio amplifier
DAX-3570 with or without a BDA-70V	DAX-3570: 120VAC 70V_{RMS} digital audio amplifier BDA-70V: 70V_{RMS} backup digital audio amplifier
DS-DB with a DS-AMP with or without a DS-XF70V	DS-DB: digital series distribution board DS-AMP: digital series amplifier DS-XF70: step-up transformer required for 70V operation
DS-DB with a DS-BDA with or without a DS-XF70V	DS-DB: digital series distribution board DS-BDA: backup digital series audio amplifier DS-XF70: step-up transformer required for 70V operation

Table 9: System Sensor SpectrAlert Advance Low-Frequency Devices (UL-464 Listed)

System Sensor	Rated Voltage[2]	FWR DC	Filtered DC	Sync. with MDL module
Notes: 1) All current draws are shown in milliamperes and reflect worst case average. 2) Nominal operating voltages shown. 3) Refer to manufacturer's installation instructions for more information.				
System Sensor HR-LF SpectrAlert Advance Low Frequency Sounder	24 VDC	153[1]	205*	Yes
System Sensor HW-LF SpectrAlert Advance Low Frequency Sounder	24 VDC	153*	205*	Yes
System Sensor P2RH-LF SpectrAlert Advance Low Frequency Sounder Strobe, High, Red	24 VDC	417*	433*	Yes
System Sensor P2WH-LF SpectrAlert Advance Low Frequency Sounder Strobe, High, White	24 VDC	417*	433*	Yes
System Sensor SPCR SpectrAlert Advance Ceiling High-Fidelity Speaker, Red	25/70.7Vrms	*	*	N/A
System Sensor SPCW SpectrAlert Advance Ceiling High-Fidelity Speaker, White	25/70.7Vrms	*	*	N/A
System Sensor SPR SpectrAlert Advance Wall High-Fidelity Speaker, Red	25/70.7Vrms	*	*	N/A
System Sensor SPSCR SpectrAlert Advance Ceiling High-Fidelity Speaker Strobe, Red	24 VDC	205*	210*	Yes[†]
System Sensor SPSCRH SpectrAlert Advance Ceiling High-Fidelity Speaker Strobe, High Candela, Red	24 VDC	258*	286*	Yes[†]
System Sensor SPSCW SpectrAlert Advance Ceiling High-Fidelity Speaker Strobe, White	24 VDC	205*	210*	Yes[†]
System Sensor SPSCW-CLR-ALERT SpectrAlert Advance Ceiling High-Fidelity Speaker Strobe, Clear Lens, ALERT, White	24 VDC	205*	210*	Yes[†]
System Sensor SPSCWH SpectrAlert Advance Ceiling High-Fidelity Speaker Strobe, High Candela, White	24 VDC	258*	286*	Yes[†]
System Sensor SPSCWH-P SpectrAlert Advance Ceiling High-Fidelity Speaker Strobe, High Candela,Plain, White	24 VDC	258*	286*	Yes[†]
System Sensor SPSCW-P SpectrAlert Advance Ceiling High-Fidelity Speaker Strobe, Plain, White	24 VDC	205*	210*	Yes[†]
System Sensor SPSR SpectrAlert Advance Wall High-Fidelity Speaker Strobe, Red	24 VDC	205*	210*	Yes[†]

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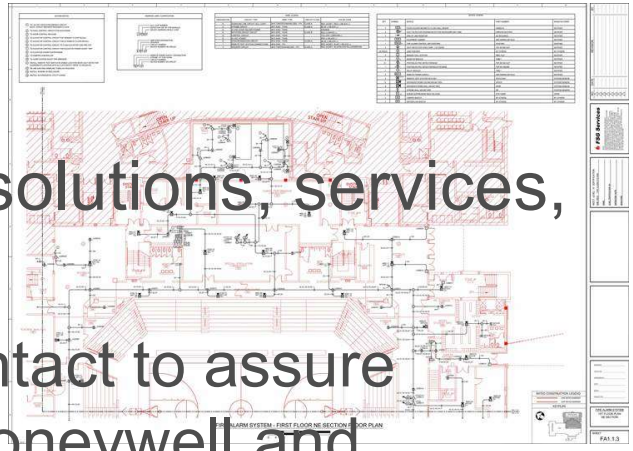
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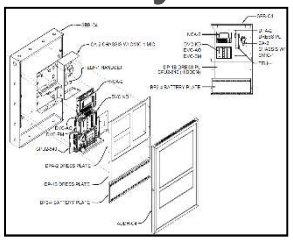


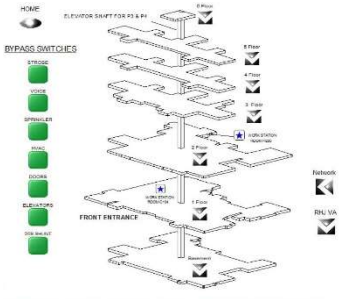
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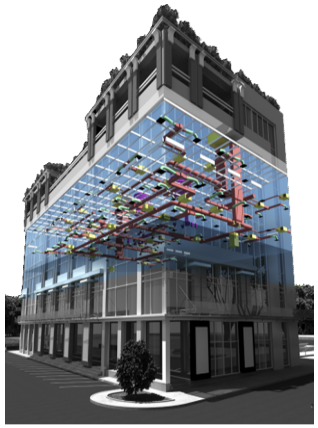
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