



 **NOTIFIER**[®]
by Honeywell



AGENDA

NOTIFIER Overview

ONYX Series Life Safety Controls Panels

Intelligent Sensing and Advanced Detection

Emergency Communications Systems

Network Solutions

Software Solutions

Summary

Global Presence, Local Knowledge

- ❖ Delivering Innovative Life Safety Products for over 60 years
- ❖ Over 400 independent global business partners (ESDs)
 - Fully backed by NOTIFIER

Connected Systems. Customized Solutions

Fire Alarm Control Panels

Fire Alarm Networking

Emergency Communication Systems

Voice Evacuation Systems

Advanced Fire & Smoke Detection

Releasing Panels

Gas Detection

Flame Detection

NOTIFIER Support

❖ Business Partner Support

- Factory Training and Certification – required every 3 years

❖ Technical Services

- Troubleshooting and Application Assistance

❖ Honeywell Fire Services Group

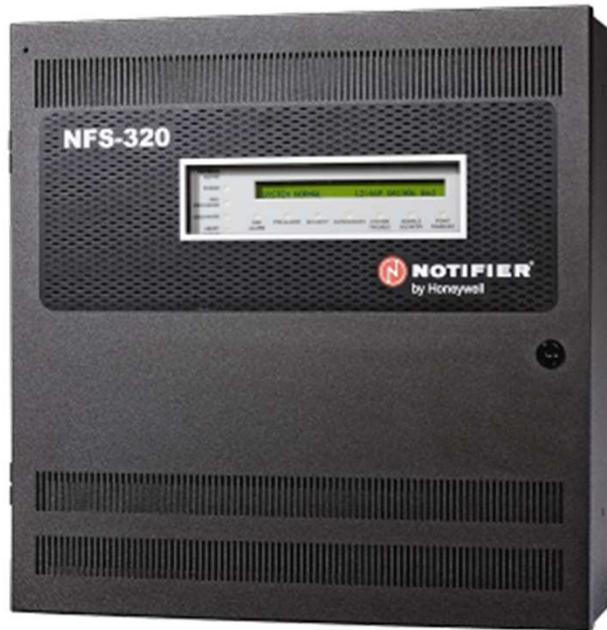
- Applications Engineering
- CAD design and drawings
- BIM Models
- System Designs
- High Level Programming
- Field Support

The ONYX® Series



The Ultimate in Life Safety and
Emergency Communications Technology

NFS-320



- ❖ Single SLC Loop Addressable Life Safety System
 - Maximum 159 addressable detectors & 159 addressable modules
- ❖ Standalone panel or networkable via Noti-Fire-Net
- ❖ Standard and Advanced Detection Capabilities
- ❖ Multiple Off-Premise Communication Options
- ❖ Multiple Integration Options

Typical Applications

K-12 Schools

Standalone Retail

Small Commercial

Strip malls

Restaurants

NFS2-640



- ❖ Single or Dual SLC Loop Addressable Life Safety System
 - Maximum 318 addressable detectors & 318 addressable modules
- ❖ Standalone system or networkable via Noti-Fire-Net
- ❖ Standard and Advanced Detection Capabilities
- ❖ Integrated Digital Voice Option
- ❖ Multiple Off-Premise Communication Options
- ❖ Multiple Integration Options

Typical Applications

Commercial Offices

Educational buildings

Assisted Living Facilities

Strip Malls

Hotels

NFS2-3030



- ❖ Multiple Loop Addressable Life Safety System
 - Up to 10 SLC loops
 - 1,590 addressable detectors & 1,590 addressable modules
- ❖ Standalone panel or networkable via Noti-Fire-Net
- ❖ Standard & Advanced Detection Capabilities
- ❖ Integrated Digital Voice Option
- ❖ Listed for releasing applications
- ❖ Optional addressable 4-20 mA analog input module
- ❖ Multiple Off-Premise Communication Options
- ❖ Multiple Integration Options

Typical Applications

High Rise Buildings

Airports

College/University Campus

Hospitals

Shopping Malls

Sports Arenas

Manufacturing Facilities

Hotels

ONYX[®] Series Features

Feature	NFS-320	NFS2-640	NFS2-3030
Signaling Line Circuit (SLC)	1 SLC	1 SLC, expandable to 2	Up to 10 SLC Loops
Maximum number of intelligent points	Up to 318 (159 detectors and 159 modules)	Up to 636 (159 detectors/159 modules per SLC)	Up to 3,180 (159 detectors/159 modules per SLC)
Networkable (via NOTI•FIRE•NET)	✓	✓	✓
Audio Evacuation	FirstCommand for stand alone, DVC for Noti-Fire-Net	Optional Integrated Digital Voice Command (DVC)	Optional Integrated Digital Voice Command (DVC)
Programmable software zones	146 (100 general, 20 logic, 10 releasing, 16 special function)		2000+ (1,000 general, 1,000 logic, 10 releasing, 22 special function)
Event History Capacity/Alarm-Only	800/200		4,000/1,000
Approvals	<ul style="list-style-type: none"> ■ UL, ULC ■ FDNY, CSFM ■ FM, Marine, Seismic 		

ONYX[®] Series Addressable Devices

Detectors

- Acclimate[®] Plus
 - ❖ Smoke / heat detector
- IntelliQuad[™]
 - ❖ 4-sensor fire detector
- IntelliQuad[™] PLUS
 - ❖ Combination fire & Carbon Monoxide detector
- VIEW[®] (Laser) Detector
- Intelligent FFAST Aspiration
- Wireless Smokes and Heats
- Heat Detectors
- Duct Detector
- Beam Detectors
- Photoelectric Series

Modules

- Pull Station
- Control Module
- Releasing Module
- Dual Monitor Module
- Dual Input/Dual Relay Module
- Class A/B Input Module
- Class B Mini-Module
- Wireless Monitor & Relay Module
- 4-20 mA analog input Module
 - ❖ NFS2-3030 only
- Relay Module
- Two-wire Smoke Detector Module
- Isolator Modules

Comprehensive Line of Addressable
Smoke, Gas, Heat and Integration Devices

Addressable Device Addressing

- Simple rotary switches set using standard screwdriver
- No special programming tool required
- No special training required
- Simplified device replacement



ONYX[®] Series Backwards Compatibility

- ❖ Existing legacy devices compatible with the ONYX Series
- ❖ Makes upgrades and retrofits more cost effective and less time consuming
- ❖ Minimal Interruption to normal facility operation
- ❖ Reuse FACP enclosure

ONYX[®] Series Releasing Options

- ❖ Ten releasing zones for ten independent hazards
- ❖ Cross-Zone capability
 - Three options
- ❖ Adjustable Delay and Discharge timers
- ❖ Addressable Releasing Module
 - With redundant protocol operation
- ❖ Abort (Four Options)



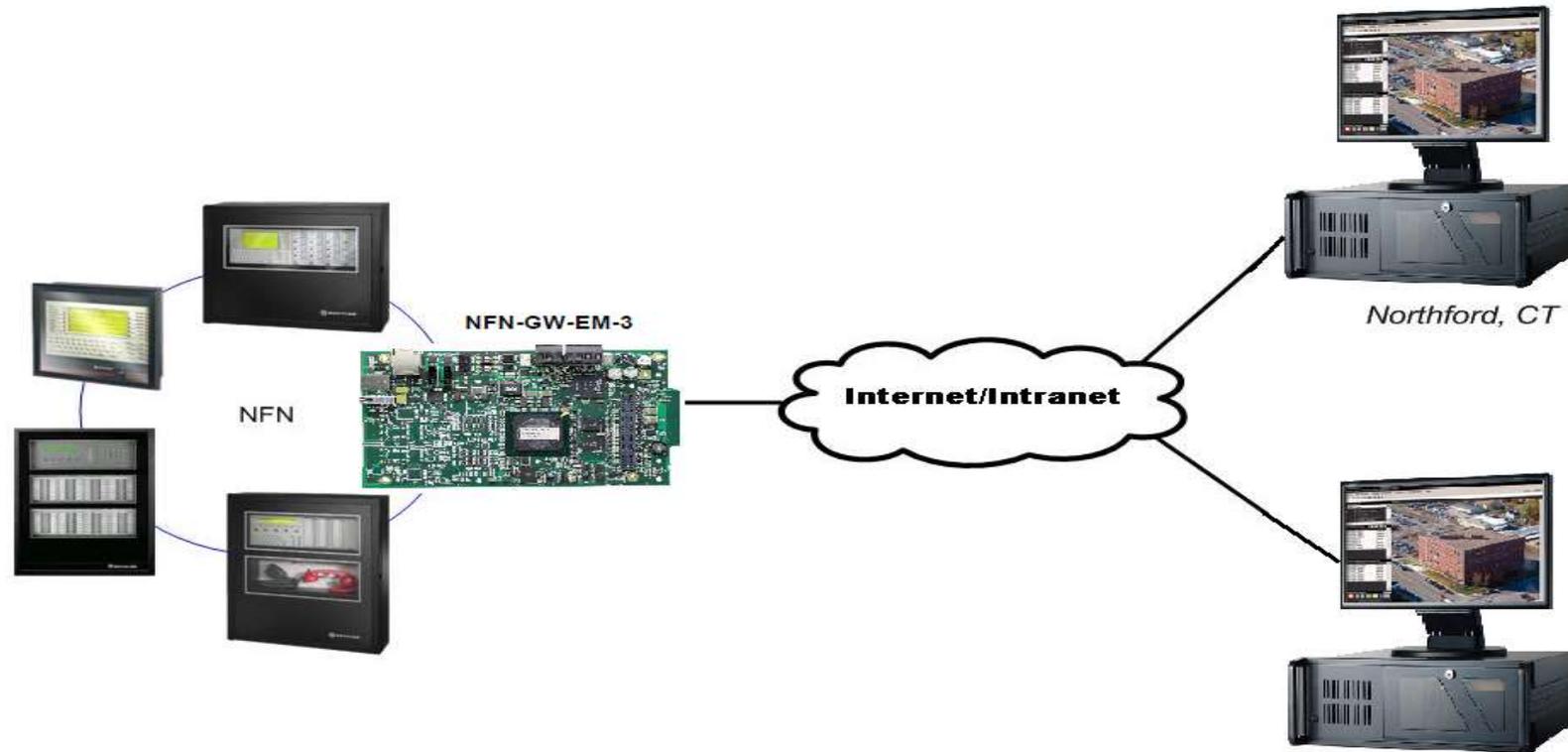
ONYX Series panels are UL listed for Releasing Applications

ONYX[®] Series Off-Premise Reporting

PRODUCT	UDACT-2	IPDACT-2UD	IPGSM-4G	TM-4
COMMUNICATION PATH	Standard Phone Line (POTS)	IP	IP Or Cellular	Copper Lines
SUPERVISION SIGNAL	Typically every 24 Hours (based on programming)	Every 90 seconds	Every 5 minutes w/Cellular	Constant

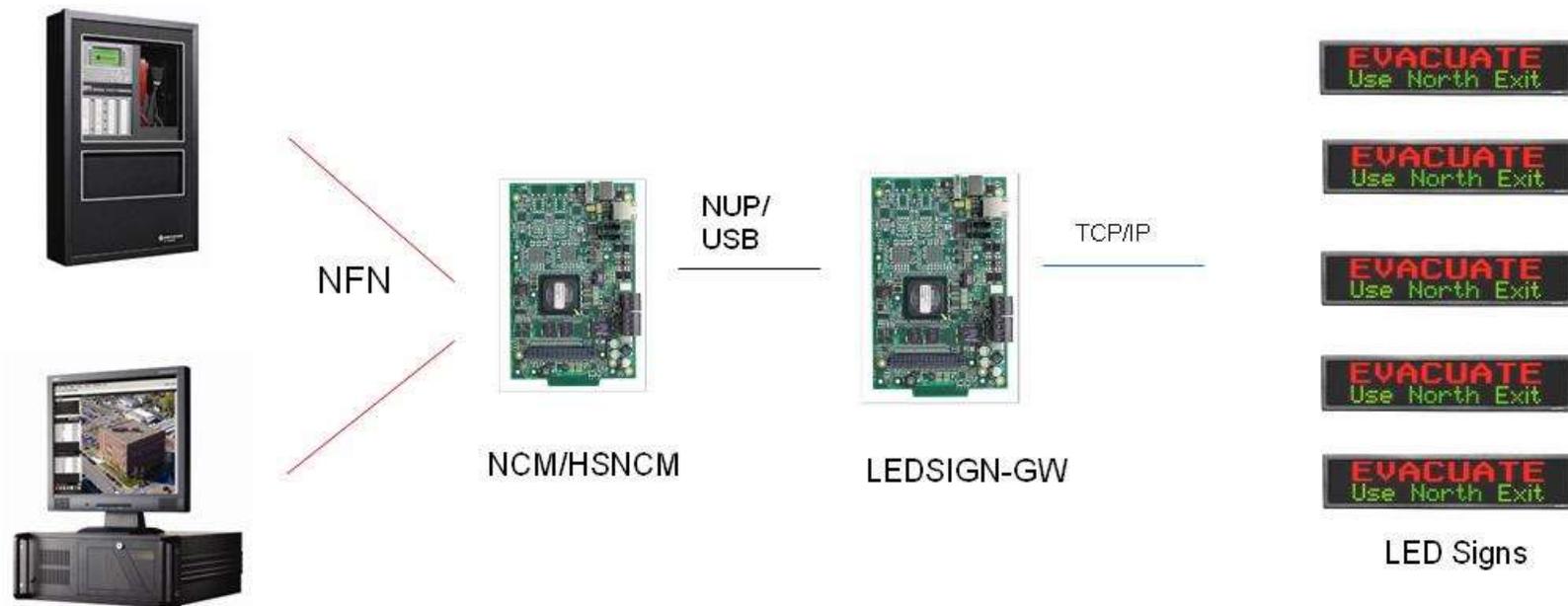
NFN Gateway (NFN-GW-EM-3)

- ❖ Ethernet IP Gateway for remote connection to ONYXWorks
 - Single FACP or Noti-Fire-Net
- ❖ Perfect solution for wide area networking
 - Add NOTIFY-IP for live voice paging option



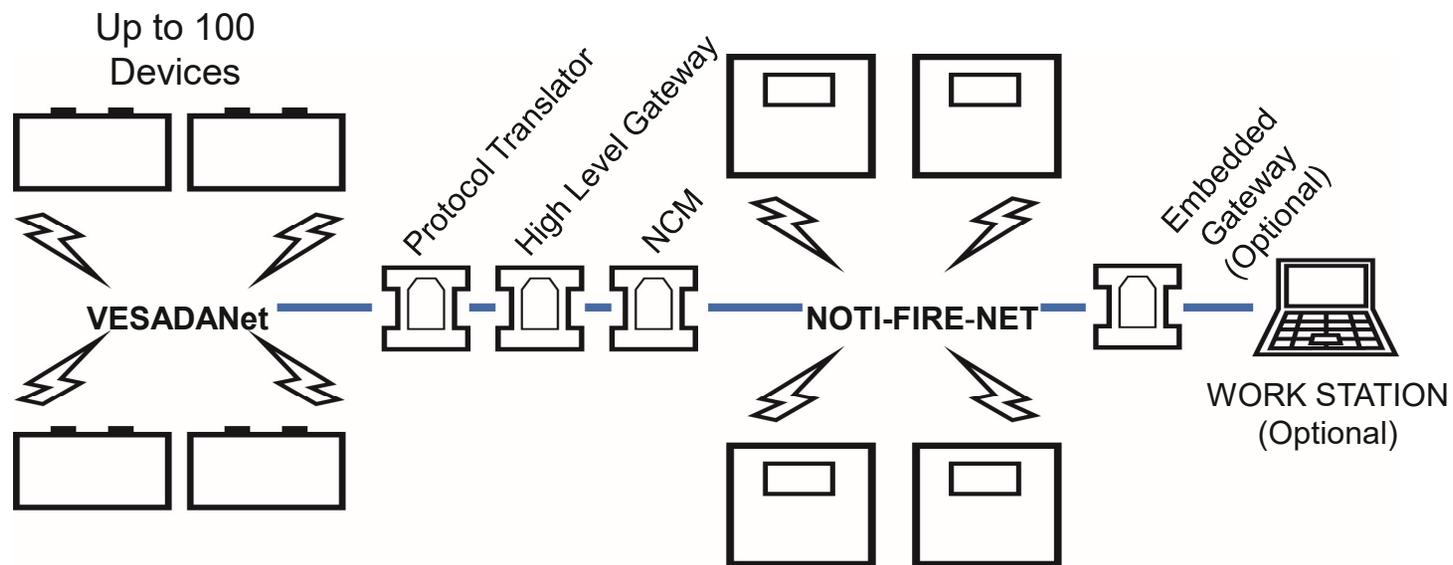
ONYX Series Gateway Options

- ❖ LEDSIGN Gateway (LEDSIGN-GW)
 - Ethernet IP Gateway for connection to Inova Solutions LED signs
 - Detailed event messages to applicable signs, alert messages to other signs



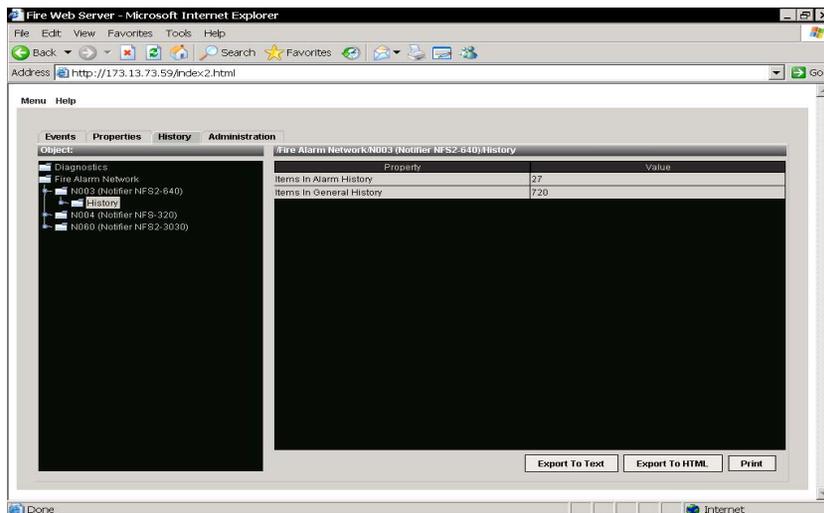
VESDA HLI Gateway

- ❖ Communication link between Noti-Fire-Net and VESDANet
 - Monitor and control up to 100 detectors
- ❖ Enables event notification and control of devices on the VESDANet through the NFN network

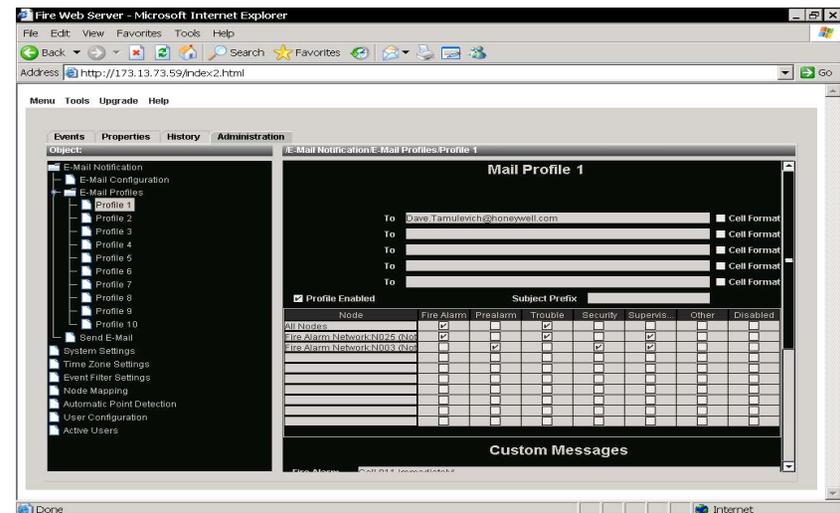


NOTIFIER Web Server Gateway (NWS-3)

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



View History Remotely



Email Profile Configurations

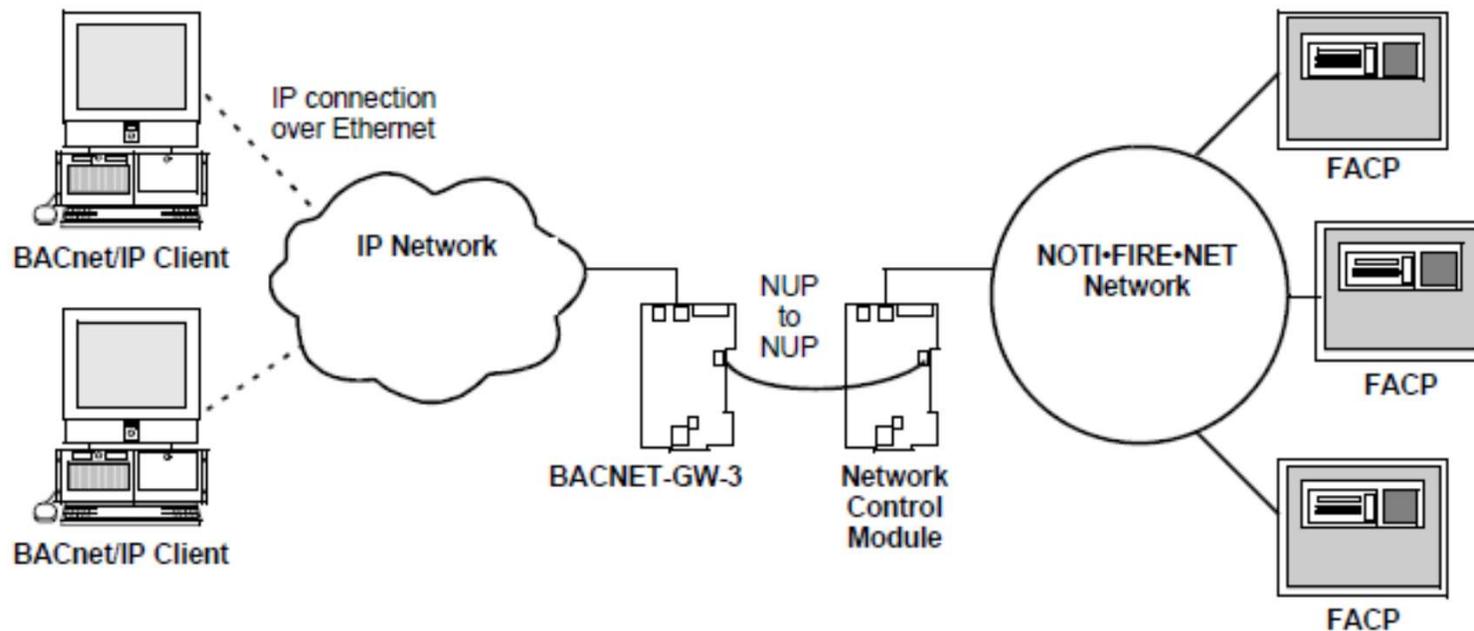
ONYX Series Gateway Options

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



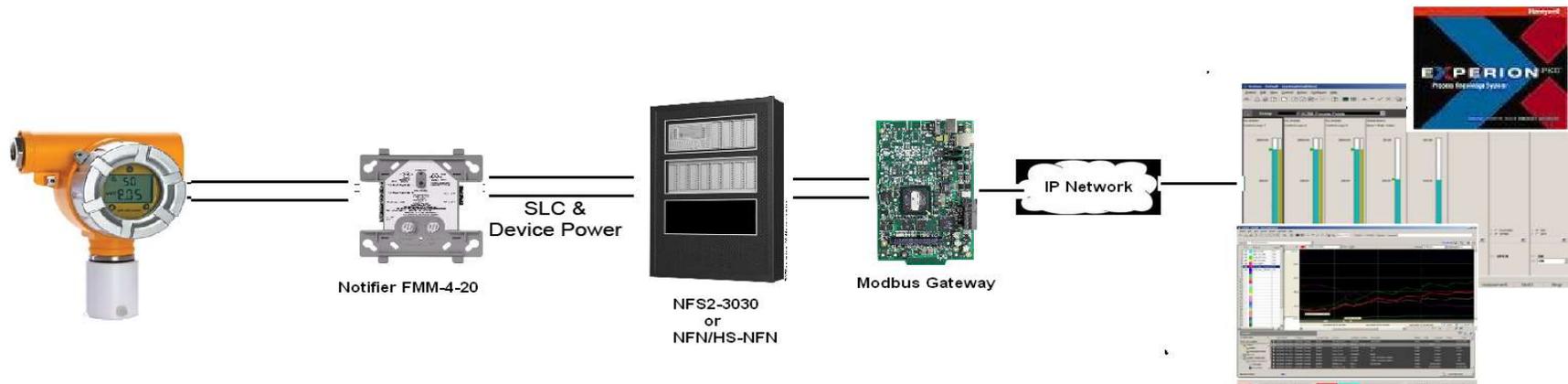
BACnet Gateway (BACNET-GW-3)

- ❖ 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



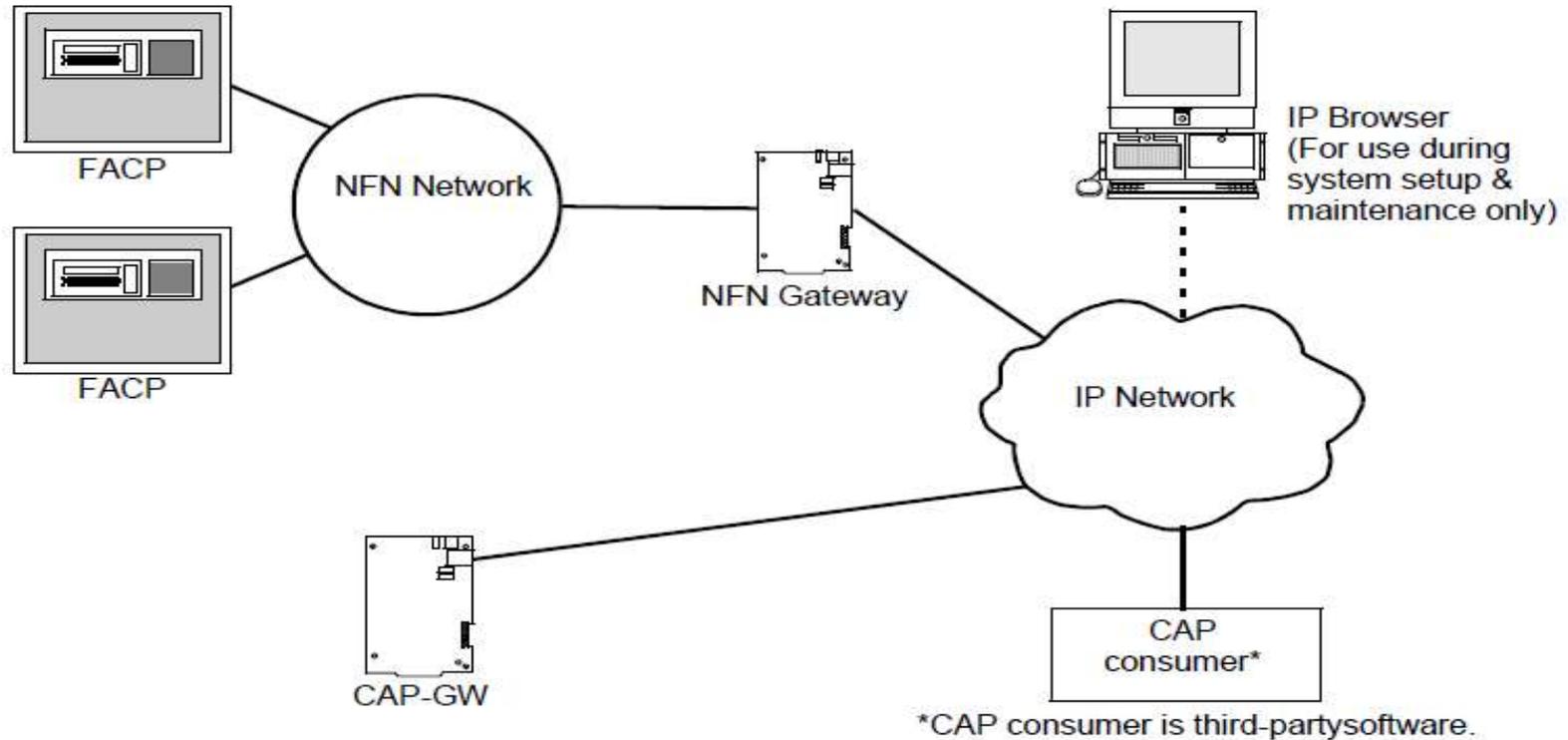
MODBUS Gateway (MODBUS-GW)

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

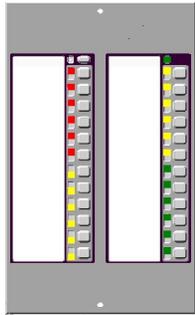


Common Alerting Protocol Gateway (CAP-GW)

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

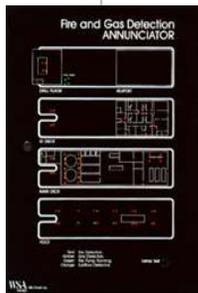


ONYX[®] Series Remote Annunciation



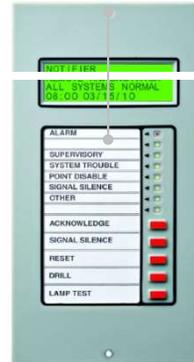
ACMs

LDMs for
Graphic
Anns



FDU-80

LCD2-80



LCD-160



First Vision

NCA-2



Full Range of Remote Annunciator Options Available

Power Supplies



HPFF8/12



FCPS-24S6/8

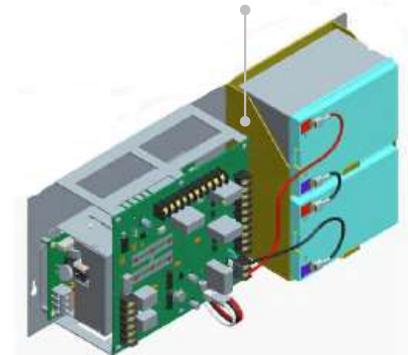
ACPS-610
(Addressable)



APS2-6R



HPFF8/12
Chassis Mount



Full Range of Auxiliary Power Supplies Available

ONYX[®] Series Summary

- ✓ Networkable Life Safety Panels for any size application
 - Emergency Communications Capabilities
 - Releasing Capabilities
- ✓ Full range of standard and advanced detection devices
- ✓ Backwards Compatibility
- ✓ Multiple off-premise reporting options
- ✓ Multiple gateway options for interfacing to third party clients





ADVANCED DETECTION TECHNOLOGY

Advanced Detection
- Speed, Stability, and Reliability

ONYX[®] Series Intelligent Sensing

Detector Sensitivity Adjust

- ❖ Ability to program each and every detector's settings, choosing from nine sensitivity levels allowing the appropriate setting for the environment

Self Optimizing Pre-Alarm

- ❖ A unique mode where the detector 'learns' its normal environment by measuring peak analog readings over a period of time, panel sets pre-alarm sensitivity to just above these levels

Maintenance Warnings

- ❖ Determines when the chamber value for a detector reaches an unacceptable level that can compromise detector performance and display the trouble on the panel

Cooperative Detection

- ❖ Fire alarm control panel looks at the values from adjacent devices, rather than input from only one device, in reaching the alarm decision

Set of complex algorithms enabling rapid response to incipient fire signatures while reducing the occurrence of nuisance alarms

Addressable Advanced Detection

- ❖ A suite of advanced specialty detectors allowing system designers to provide life safety protection in standard and challenging environments

- ACCLIMATE[®] Plus
- IntelliQuad[™]
- VIEW[®]

- IntelliQuad[™] PLUS
- Intelligent FAAST
- SWIFT Wireless



Acclimate Plus[®] Multi-Criteria Detector



- ❖ Combination of photoelectric and thermal sensing increases immunity to false alarms
- ❖ Internal microprocessor adjusts sensitivity based on the environment without human intervention or control panel programming
- ❖ Photoelectric detector sensitivity to smoke increases with sensed rise in heat
- ❖ Capable of a heat-only mode
- ❖ Low-Temp Trouble indication (at 40 F)

Typical Applications

Sleeping Rooms

Pre-Alarm for smoke with General alarm for heat

IntelliQuad™ Multi-Criteria Detector

- ❖ Uses four sensing elements working together to address each element of a fire
- ❖ The panel threshold can be chosen based on the environment – sensing element weighting varies by level

**Photoelectric smoke sensing
(Particulate)**

**CO sensing
(CO)**



**Thermal heat sensing
(Heat)**

**Infra-red light sensing
(Light from flame)**

**Advanced time & logic functions
(Coordination)**

Typical Applications

Mechanical Rooms

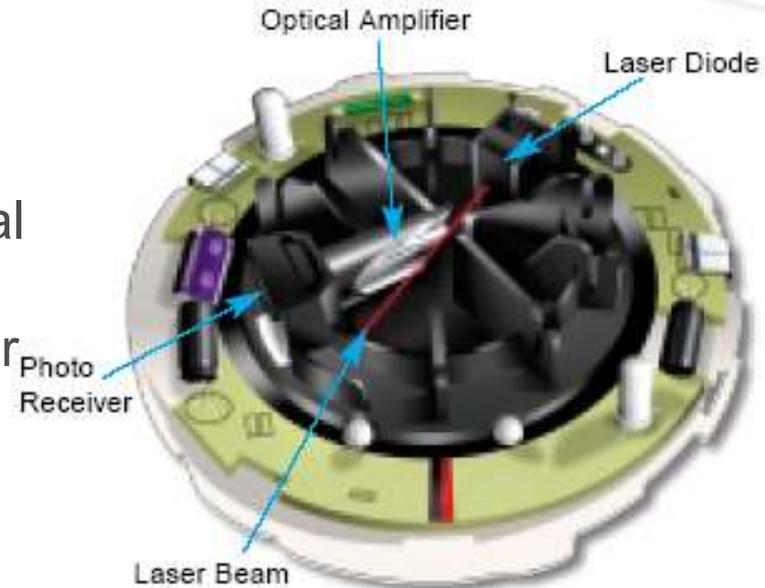
Kitchens

Restrooms

Laundries

VIEW[®] (Very Intelligent Early Warning)

- Ideal for critical applications where even a trace of undetected smoke is unacceptable
- System Features
- Laser light source and patented optical design
- Sensitivity that is 10 to 50 times higher than photoelectric technology
- Benefits
- Very early warning
- Individual point annunciation



Typical Applications

Server Rooms

Electrical Equipment Rooms

IntelliQuad™ PLUS Photoelectric / CO Detector

- ❖ Uses four sensing elements working together to address each element of a fire: Photo, CO, Thermal and IR
- ❖ The carbon monoxide sensor provides a separate CO signal to the panel
- ❖ Can be configured with an intelligent sounder base to produce distinct audible alerts
 - Temp-3 for fire
 - Temp-4 for CO
- ❖ Ideal for applications that require both smoke and CO detection



With B200S Sounder Base

Typical Applications

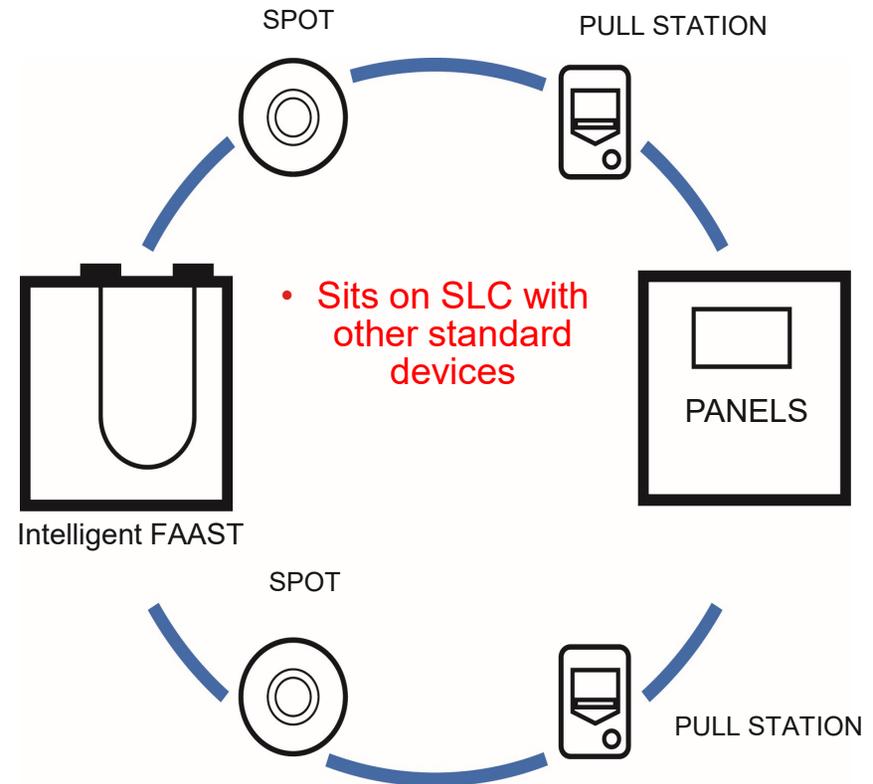
Residential

Hospitality

Dormitories

Intelligent FFAST Addressable Aspiration

- ❖ Connects directly to NOTIFIER ONYX series addressable fire alarm control panels via the Signaling Line Circuit (SLC loop)
 - No interface cards or monitor modules required
 - Reduced equipment costs and installation time
- ❖ Real-time information of early warning smoke and fire conditions transmitted to fire alarm control panel
 - Addressable spot smoke detection and aspiration in a single panel!



Intelligent FFAST Addressable Aspiration Line Up

	FAAST XS	FAAST XM	FAAST XT
Model Number	FSA-5000	FSA-8000	FSA-20000
Agency Listings	UL, ULC, FM, CSIRO, ACTIVFIRE, CNTC, VdS, CE, KFI, CSFM (Class I/Div II)	UL, ULC, FM, CSIRO, ACTIVFIRE, CNTC, VdS, CE, KFI, CSFM (Class I/Div II)	UL, ULC, FM, CSIRO, ACTIVFIRE, CNTC, VdS, CE, KFI, CSFM (Class I/Div II)
Coverage Area	Up to 5,000 sqft (464 sq m)	Up to 8,000 sqft (743 sq m)	28,800 sqft (2,676 sq m)
Max Single Pipe	180 ft	262 ft	400 ft
Fan Speed	User configurable 3 speed fan	Single Speed	User configurable 3 speed fan
Software	PipelQ 2.2.7	PipelQ 2.2.7	PipelQ 2.2.7

Intelligent FFAST - Applications

Typical Applications



Mission Critical

Difficult Environments

Aesthetics

Security Concerns

Data processing

Telecom

Cold Storage

Atriums

Museums

Churches

Prisons

Hospitals

Intelligent FFAST – Common Applications

Mission Critical

Difficult Environments

Aesthetics

Security Concerns



WIRELESS TECHNOLOGY

Reliable Wireless Fire Detection Fully Integrated with
ONYX[®] Fire Alarm Systems

NOTIFIER's SWIFT Wireless Overview

❖ Smart **W**ireless **I**ntegrated **F**ire **T**echnology



For life safety and property protection in challenging environments

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

FWD-200P



Photo

FWD-200ACCLIMATE



Acclimate

FW-MM



Module

FWH-200FIX135



Heat

FWH-200ROR135



Heat Rate-of-Rise

FW-RM



Relay Module

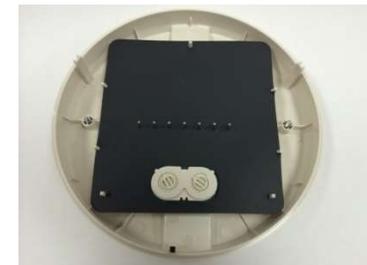
SWIFT TOOLS & W-USB



SWIFT Components

❖ FWSG - FlashScan Wireless SWIFT Gateway

- A gateway is required for each wireless mesh network
 - Up to 49 wireless devices per gateway
- Connects to the SLC loop of the NFS-320, NFS2-640 or NFS2-3030
 - Running firmware version 22 or higher
- Powered from SLC or auxiliary 24 VDC
 - Aux power is recommended for serviceability



SWIFT Applications

Typical Applications



Difficult to wire

Impossible or expensive to wire

Restricted Access

Hazardous materials or security concerns

Aesthetic Concerns

Conduit or wire mold not acceptable

Temporary Occupancies

Classrooms or construction sites

Renovations

Reduce fire watches on floor by floor renovations

Aspiration Detection

FAAST ASD



Xtralis ASD



VESDA-E Next Generation ASD



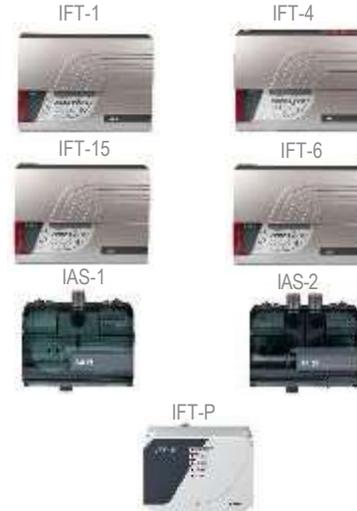
OSID - Open-area Smoke Detection



VESDA — World's Leading ASD Brand



ICAM — Flexible ASD



ECO Gas Detection



Gas & Flame Detection

- ❖ Broad range of Gas & Flame detection options to meet the needs of any commercial or industrial application
 - Honeywell Analytics Gas Detection
 - Fire Sentry Flame Detection



Typical Applications

Parking Garages	Kitchens
Battery/UPS Rooms	Boiler Rooms
Refineries	Fueling Stations
Airport Hangers	PetroChem
Paint Booths	Refrigeration
Pools	Fueling Stations

Combine Gas and Flame Protection with your ONYX Series Life Safety System for a total solution; eliminate the need for separate systems

ONYX Series Gas Detection

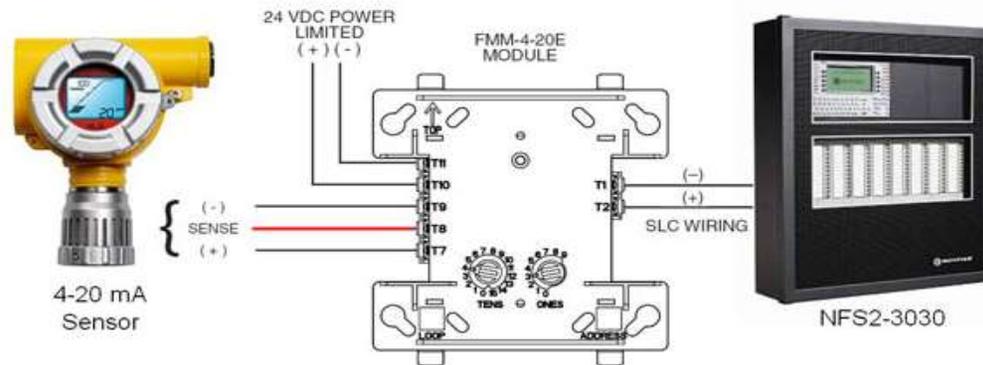
- ❖ ONYX Series (NFS-320/NFS2-640/NFS2-3030)

- UL 'Non-Monitor' Listed for Gas Detection
- Monitor normally-open contact type devices



- ❖ NFS2-3030

- FM6320 Approved Gas Detection System with FMM-4-20 module
- Can interface to any industry-standard, 4-20 mA protocol sensor: Gas, Oxygen, Temperature etc...



Advanced Detection Summary

- ✓ The most comprehensive line of smoke, flame and gas detectors in the Life Safety Industry
- ✓ Life Safety Protection for any environment
- ✓ Unique panel intelligence & integration options
- ✓ Superior nuisance alarm rejection
- ✓ Intelligent Aspiration



EMERGENCY COMMUNICATION SYSTEMS

From Localized Emergencies to Global Events
- Inform Everyone

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

Airports

College/University Campus

Hospitals

Shopping Malls

Sports Arenas

Manufacturing Facilities

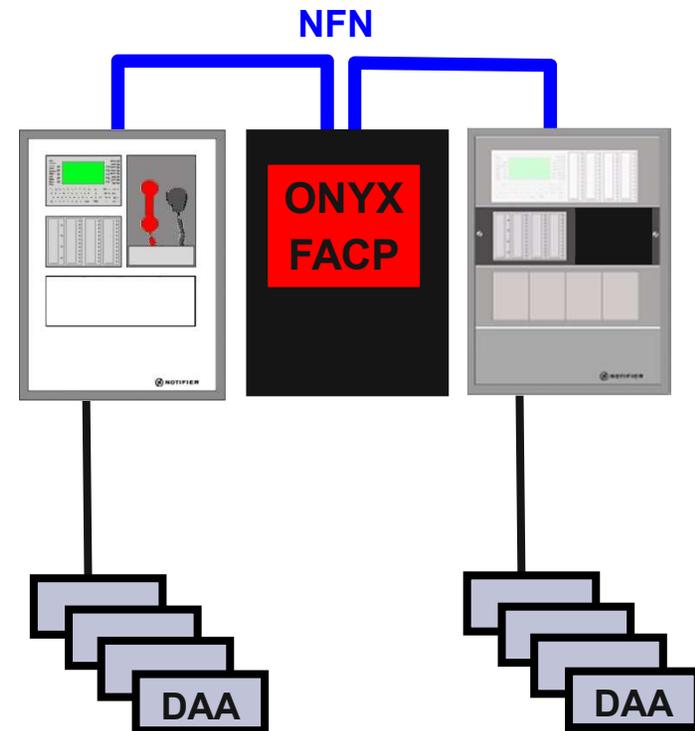
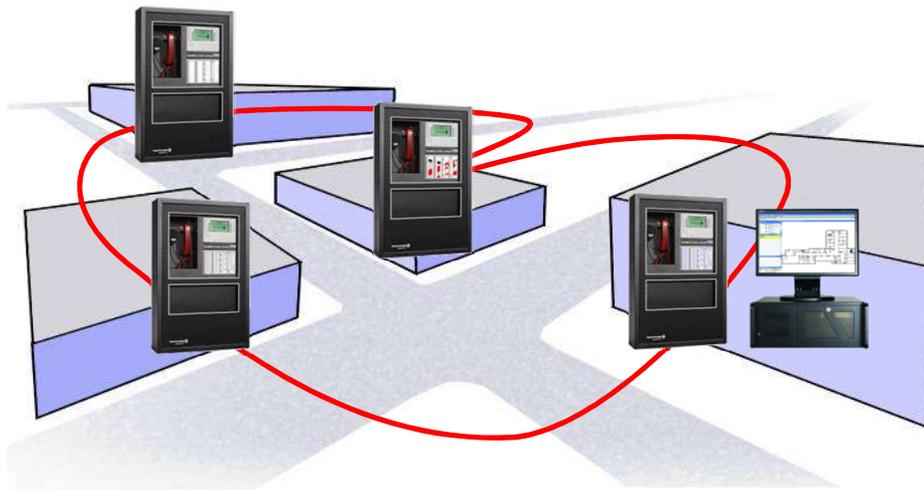
Hotels

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

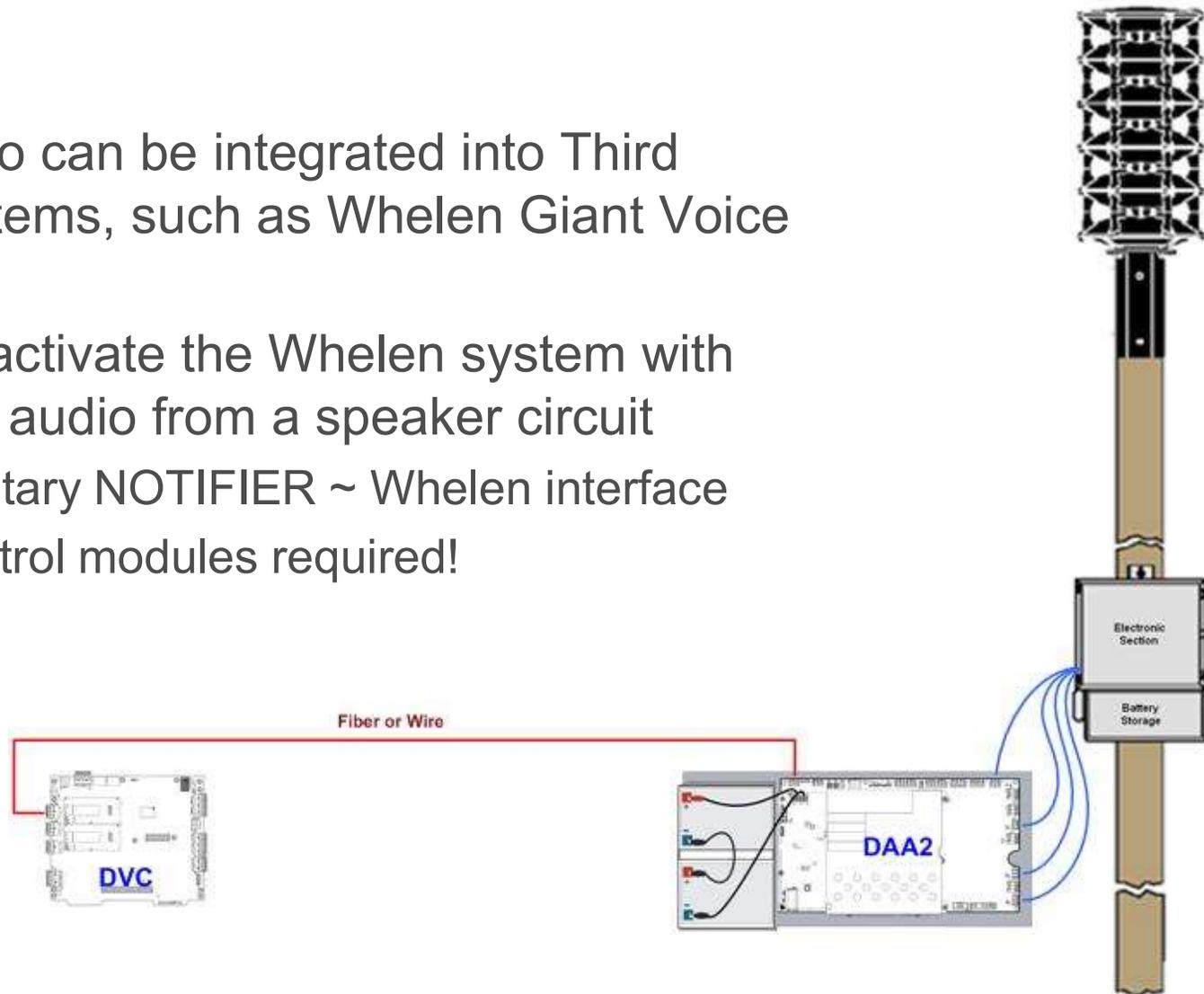
NOTI•FIRE•NET with DVC

- ❖ Backbone of a robust Emergency Communications Systems
- ❖ Added survivability and scalability
- ❖ Multiple command center support
- ❖ Easily expandable



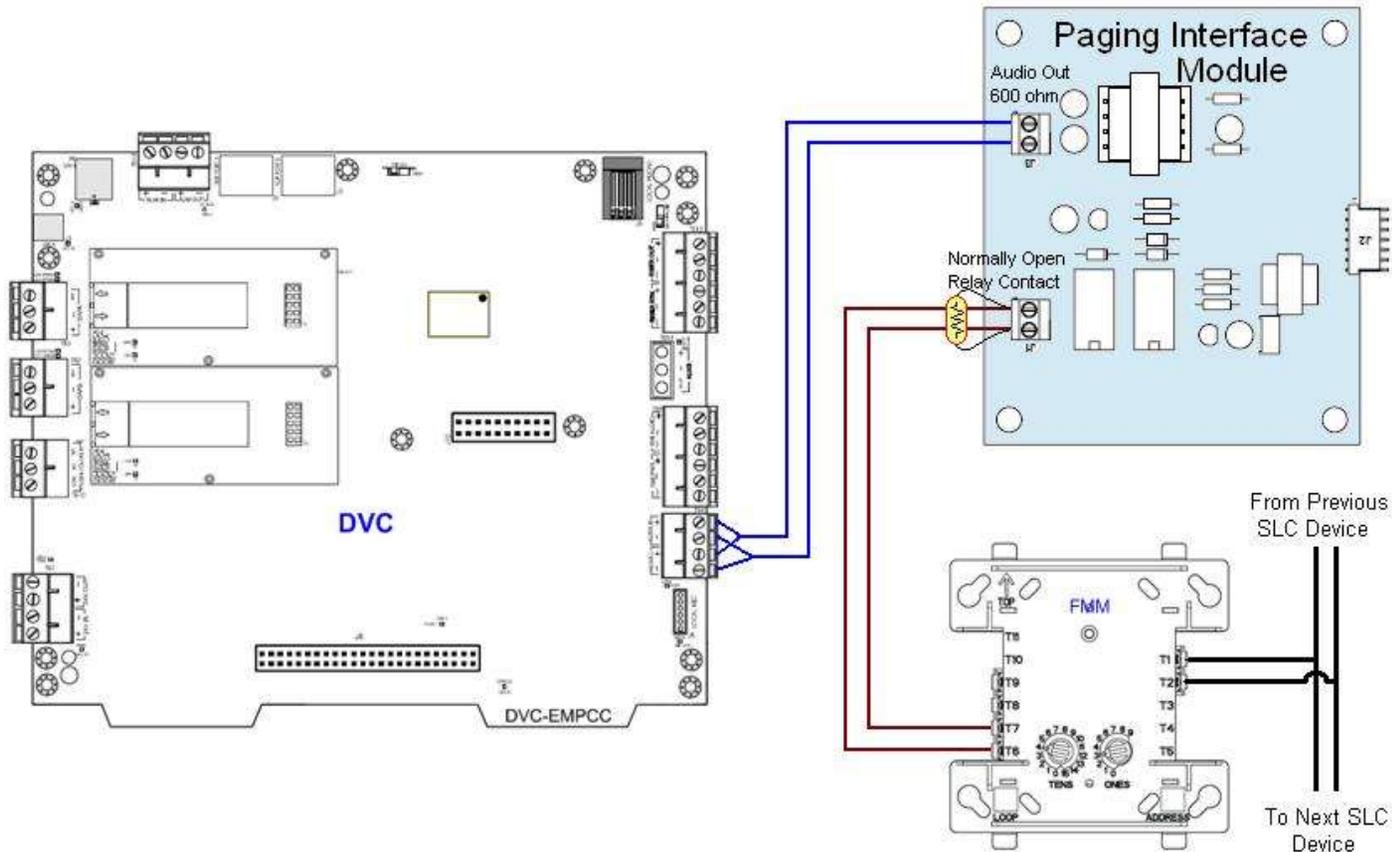
DVC Third Party Integration

- ❖ 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

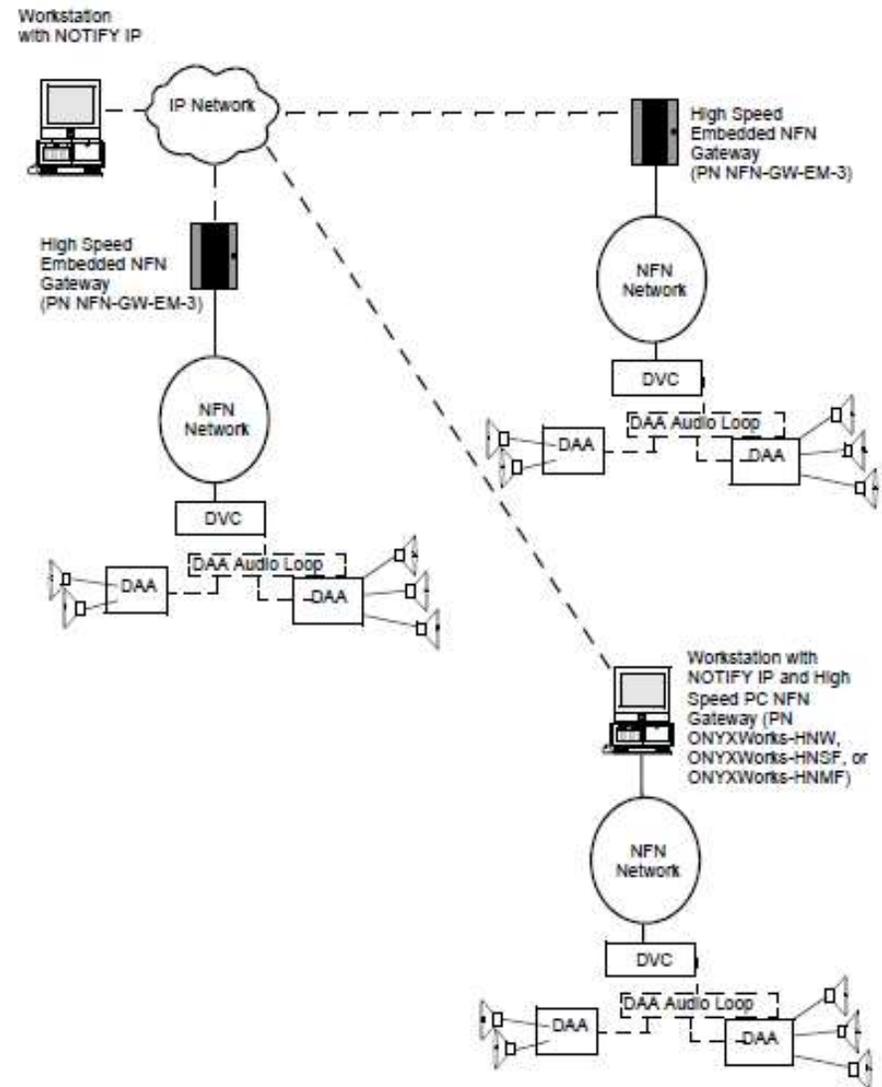
- ❖ Third Party Audio, such as Whelen Giant Voice, can be easily integrated into the DVC



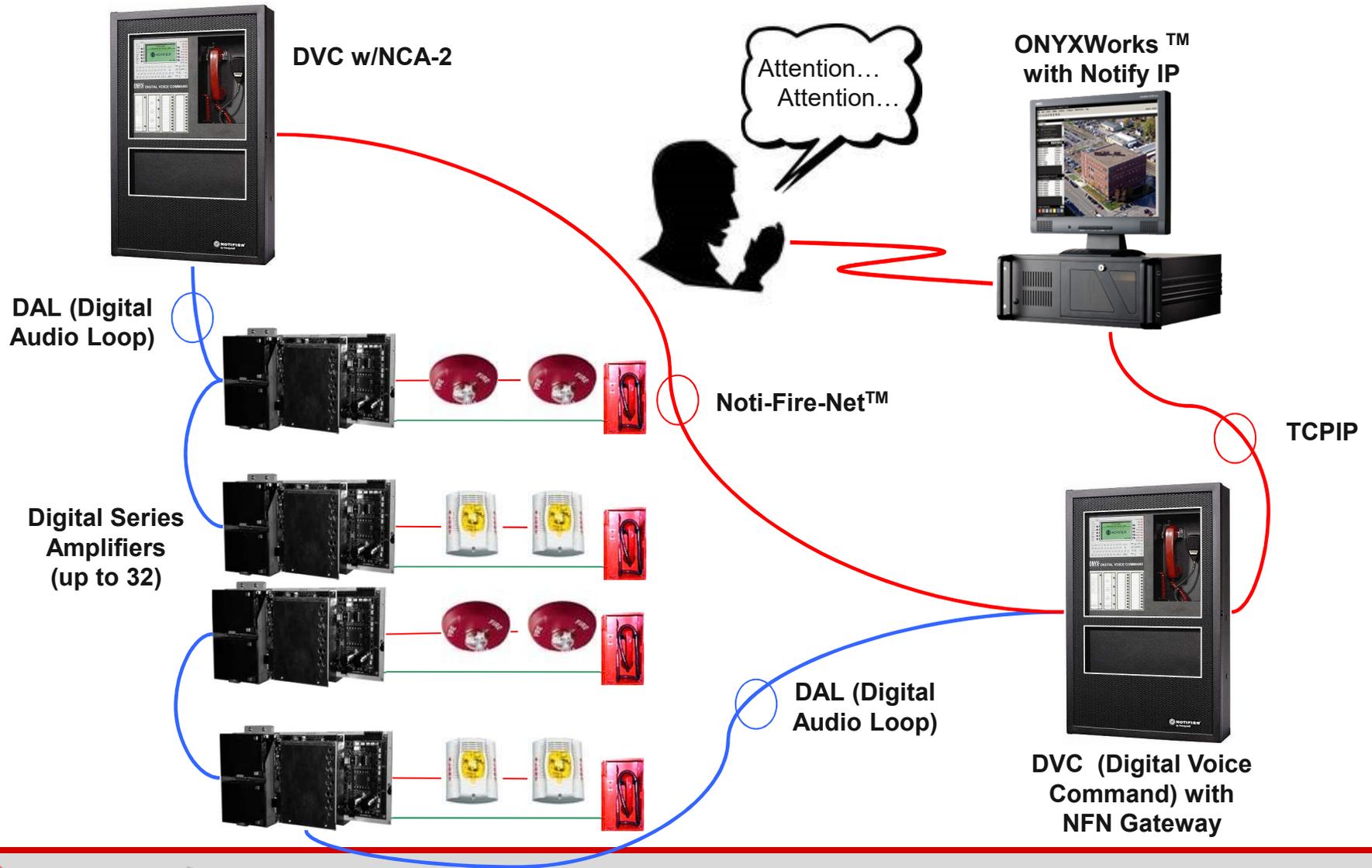
NOTIFY-IP

- ❖ NOTIFY-IP is a system of interconnected software and hardware that broadcasts live or prerecorded voice messages on DVCs
 - Requires ONYXWorks

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



NOTIFIER ECS: NOTIFY-IP



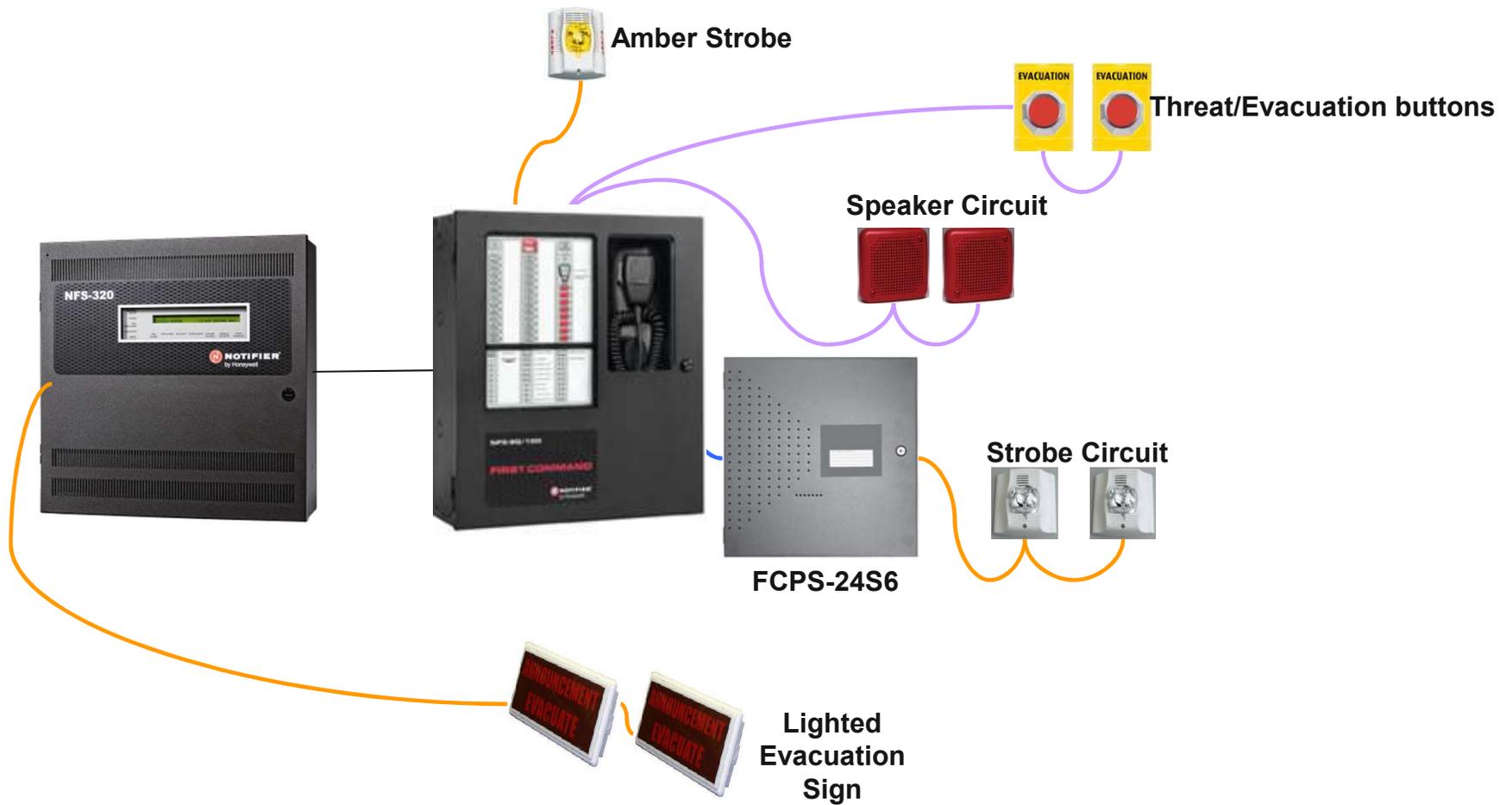
FirstCommand Overview

- ❖ Adds standalone or integrated emergency communications for voice evacuation
- ❖ Direct integration and control with select NOTIFIER addressable panels
- ❖ Works with any fire alarm control panel from any manufacturer



Meets the needs of any size project

FirstCommand-50/100 with NFS-320



NOTIFIER ECS: Digital Intelligent Signage

- ❖ Supplements emergency voice messaging with visual signage
- ❖ Fully integrated and supervised by ONYX panels and ONYXWorks
- ❖ UL-listed LED signs and ONYX gateway
- ❖ Intelligent signage allows for pre-programmed or customizable emergency messages – examples:
 - *Security Breach Reported*
 - *Lock Down*
 - *All Clear*
- ❖ The Intelligent Signage allows for emergency messages to be displayed throughout a facility for company personnel or visitors

Effective solution for the hearing impaired/high ambient noise areas

LEDSIGN-GW: ONYX integration gateway

- ❖ Up to 10 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



Distributed Messaging

❖ Honeywell Instant Alert Plus

- Standalone non-integrated solution

Honeywell

Instant Alert[®] Plus



NOTIFIER ECS: Distributed Messaging

❖ At-Hoc

- Integrates with NOTIFIER via the CAP-GW

AtHoc Offering:
Essential IP-based “**Glue**” for Unified Mass Notification

AtHoc’s Net-Centric MNS unifies four key notification modalities:

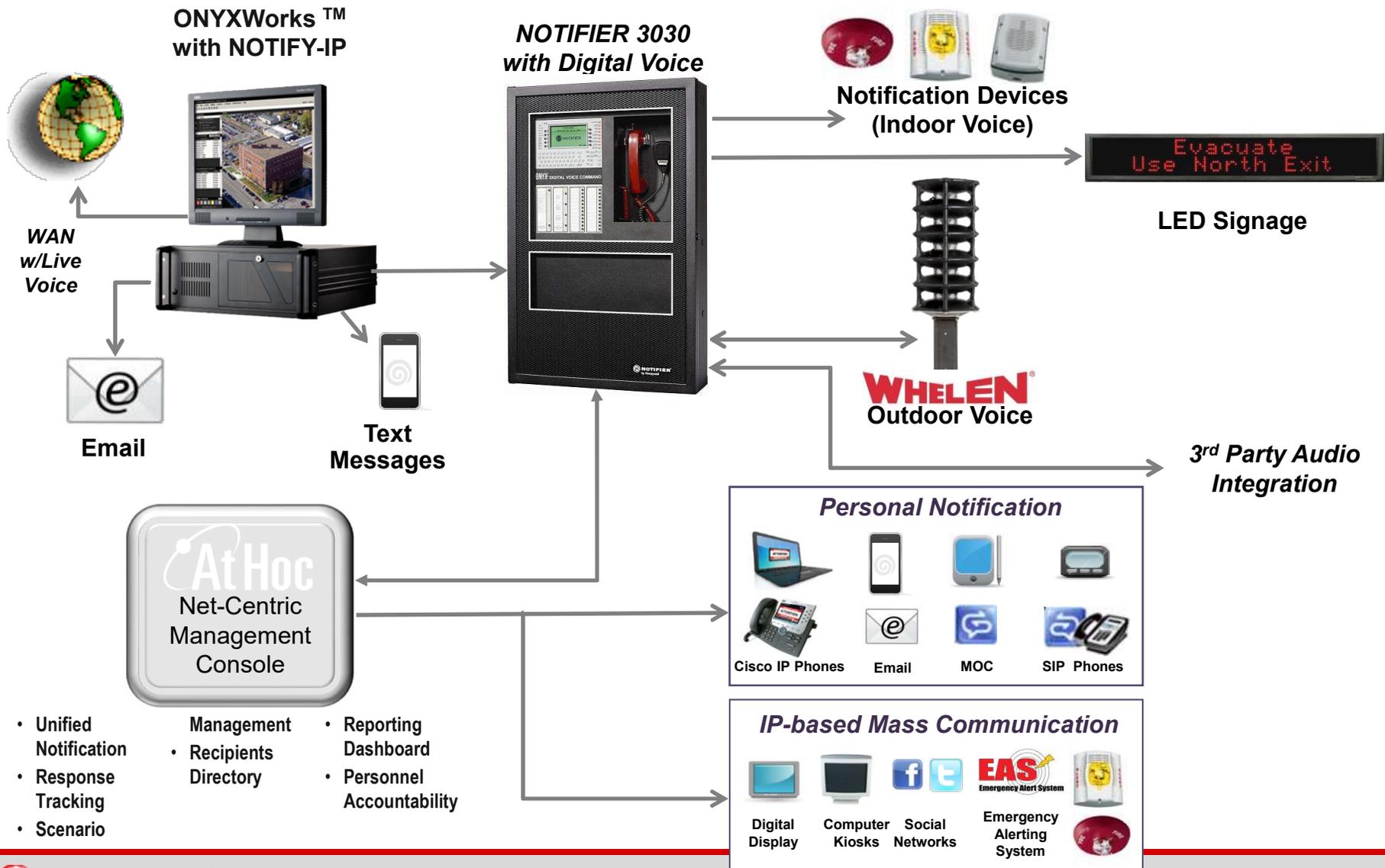
- **Public Communication Devices:** utilize sirens, speakers, PA systems, digital signage, radio and other non-personal public address devices
- **Network Alerting System (“NAS”):** utilize the internal IP network for alerting on desktops via popup notification, IP Phone displays, Instant Messaging and emails
- **On-Premise Telephony Alerting (TAS):** utilize internal telephony system (including IP-PBX/ Unified Communication) for phone alerting
- **Hosted TAS:** utilize the public telephony infrastructure for phone alerting or text-messaging (SMS) on cell phones by leveraging SMS/Phone aggregators and their web-services API’s

AtHoc

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6

Fire Alarm & Emergency Communication Systems



Notification Appliances

- ❖ Broad offering of notification appliances for any application
 - Speakers/speaker-strobes, Horn/horn-strobes, Chime/chime-strobes and sounder bases
 - Low Frequency appliances for any application
 - Indoor and outdoor, fire and alert, colored strobes
 - Wide area outdoor speakers (HPSAs...or Giant Voice)
 - LED Signs, Exit marking sounders, Sounder bases



ECS Summary

- ✓ Multiple communication paths for emergency warning
 - Indoor and outdoor voice
 - LED Signs
 - Common Alerting Protocol interface to software products
- ✓ Network-wide or single panel
- ✓ Integration with third party systems
- ✓ ONYX Series panels and ONYXWorks are UL2572 listed
 - ONYXWorks is the first UL2572 listed Central Control Station

Deliver the right MESSAGE... at the right TIME... to the right AUDIENCE



NETWORK SOLUTIONS

Uniting Multiple Systems

NOTI-FIRE-NET

- ❖ Unites multiple NOTIFIER intelligent fire alarm control panels as one
 - LAN or WAN
 - Connect using wire, fiber or IP
- ❖ Industry leading network node/panel capacity – up to 200 nodes!
- ❖ All panels operate independently, yet cohesively, for unified response
- ❖ Enhanced survivability – communications loss will not compromise life safety
- ❖ Network-wide display and control

Backbone of a robust Emergency Communications System

NOTI-FIRE-NET Applications

Typical Applications



Universities

Offices

Hotels

Airports

Hospitals

Schools

NOTI-FIRE-NET

- ❖ Backward and forward compatible
- ❖ Supports all NOTIFIER intelligent systems
 - NFS-320, NFS/NFS2-640, NFS/NFS2-3030
 - NCA/NCA2
 - Legacy Products
 - ❖ AM2020/AFP-1010, AFP-400/300, AFP-200



Network grows with you as your business needs expand

Network Comparison: Standard vs High Speed

Feature	Standard	High Speed
Nodes	103	200
Nodes With DVC Support	54	200
Node Addresses per NCM	1	2
Media	Wire Multimode Fiber	Wire Multimode Fiber Singlemode Fiber
Communication Speed	Wire = 312.5Kb Multimode Fiber = 312.5Kb	Wire = 12Mb Multimode Fiber = 100Mb Singlemode Fiber = 100Mb
Wire		
Distance	3,000 ft maximum	3,000 ft maximum
Gauge	14-18 AWG	14-18 AWG
Configuration	Point-to-Point and Bus	Point-to-Point
Multimode Fiber		
62.5/125µm	8dB Limit	10dB Limit
50.0/125µm	4.2dB Limit	6.5dB Limit
Wavelength	850nm	1310nm
Connector Style	ST	LC
Singlemode Fiber		
9.0/125µm	Discontinued Converters	30dB Limit
Connector Style	ST	LC

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

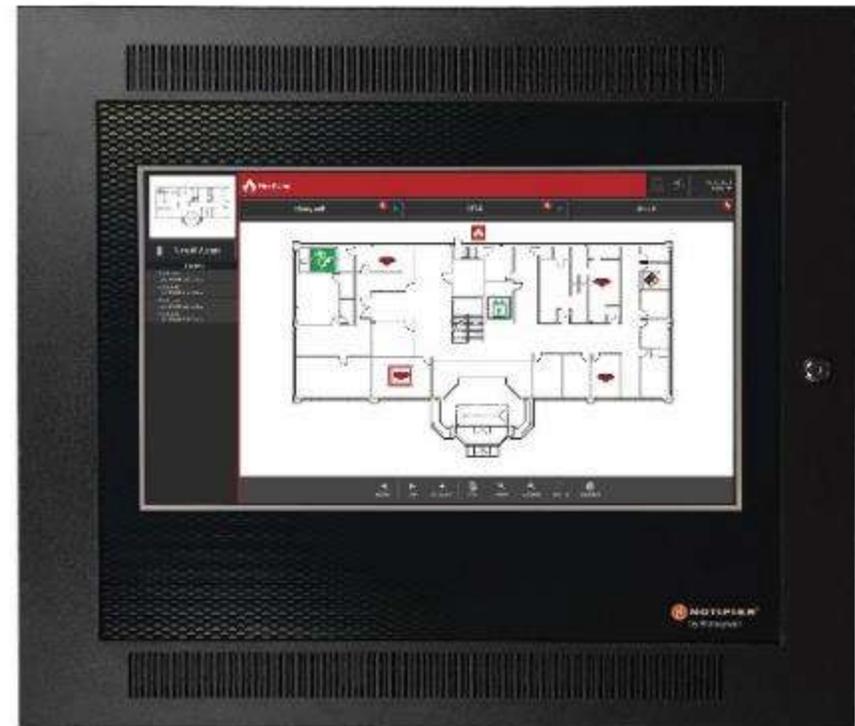
 - Standard NFN and High Speed NFN

- 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

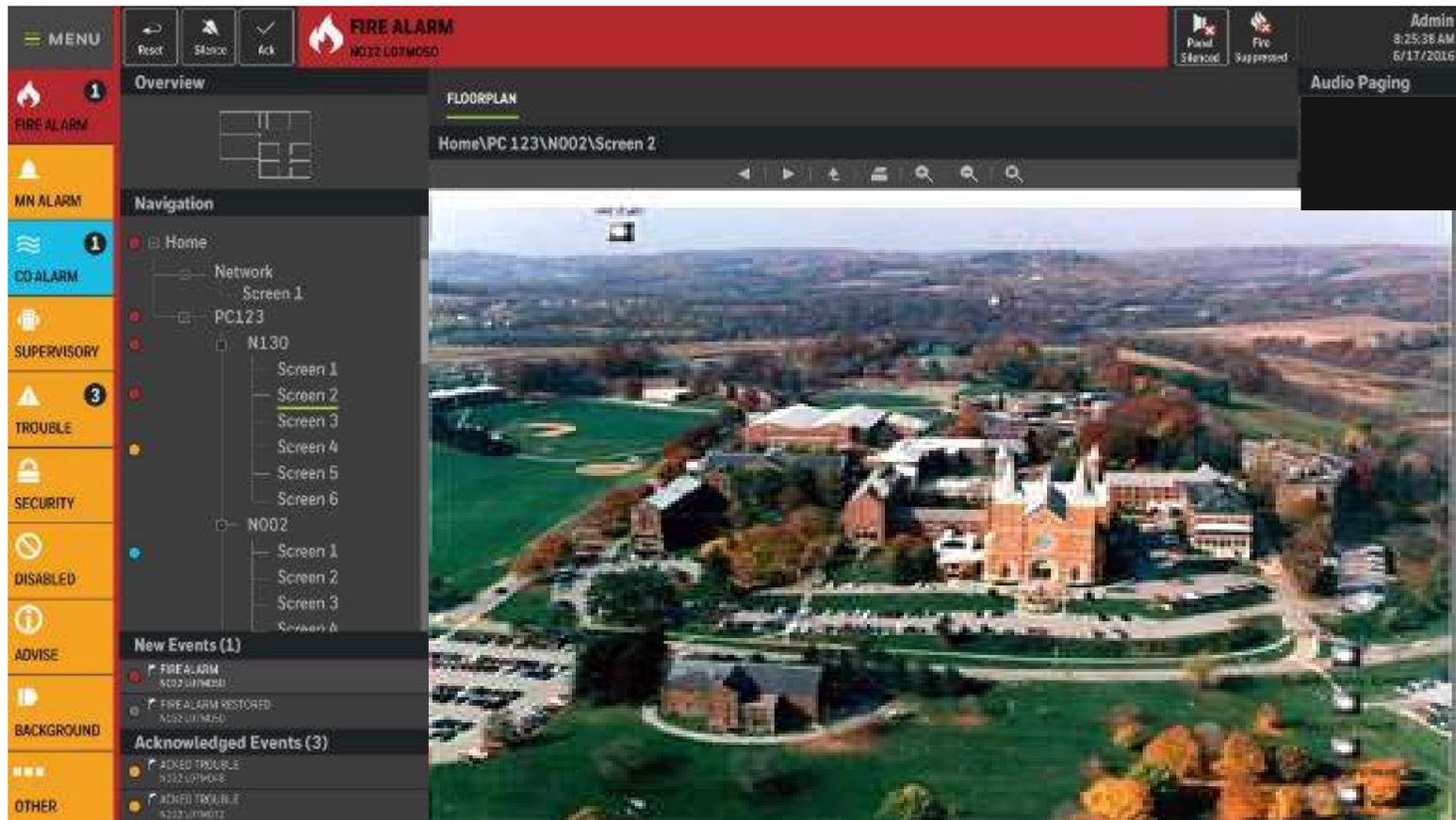
Simple Maintenance

- ❖ 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

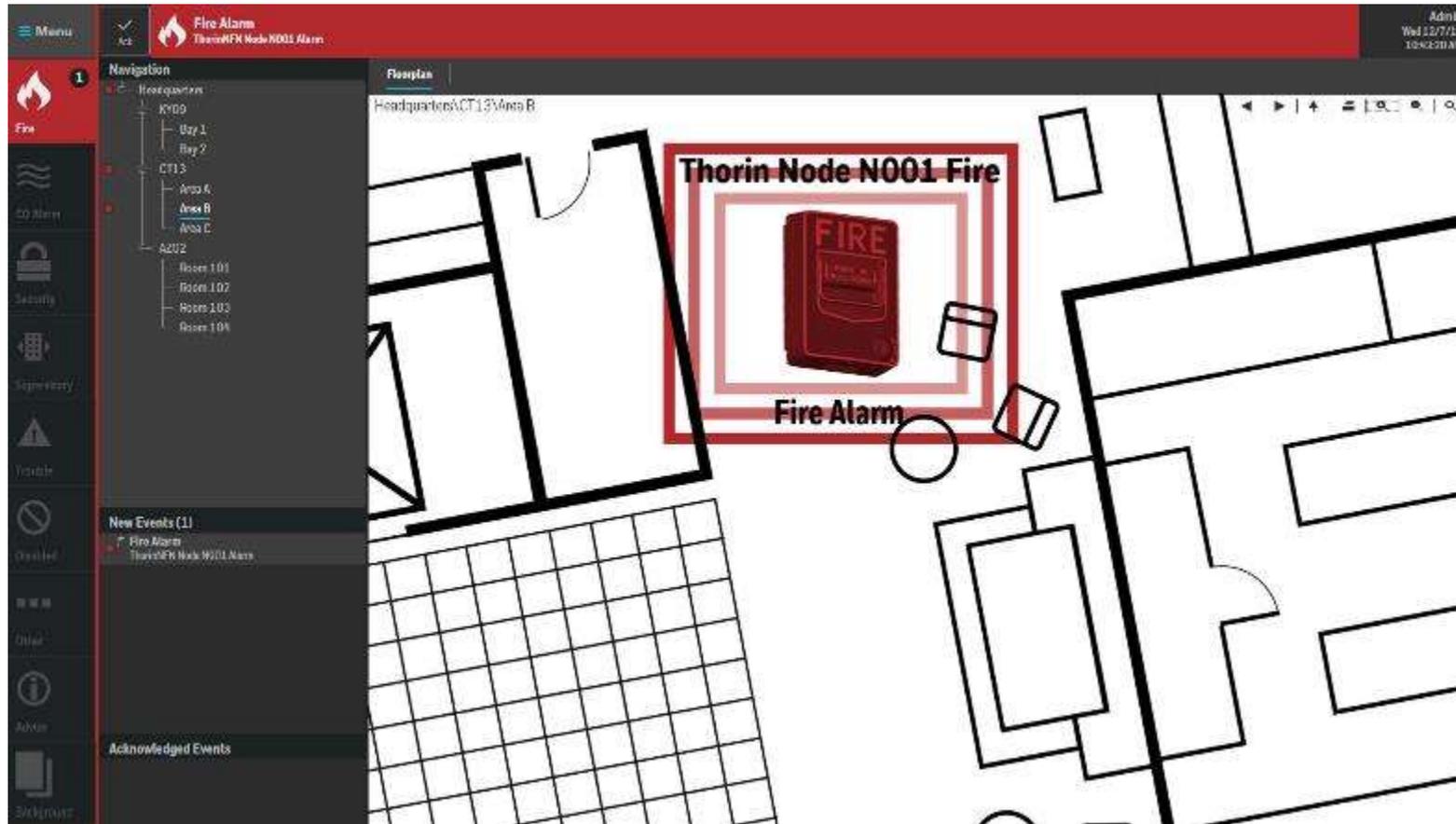
- ❖ Operator Login/Logout/Change Password Function
- ❖ Only authorized personnel can access the system, providing a safe & secure monitoring workstation

ONYXWorks – Home Screen



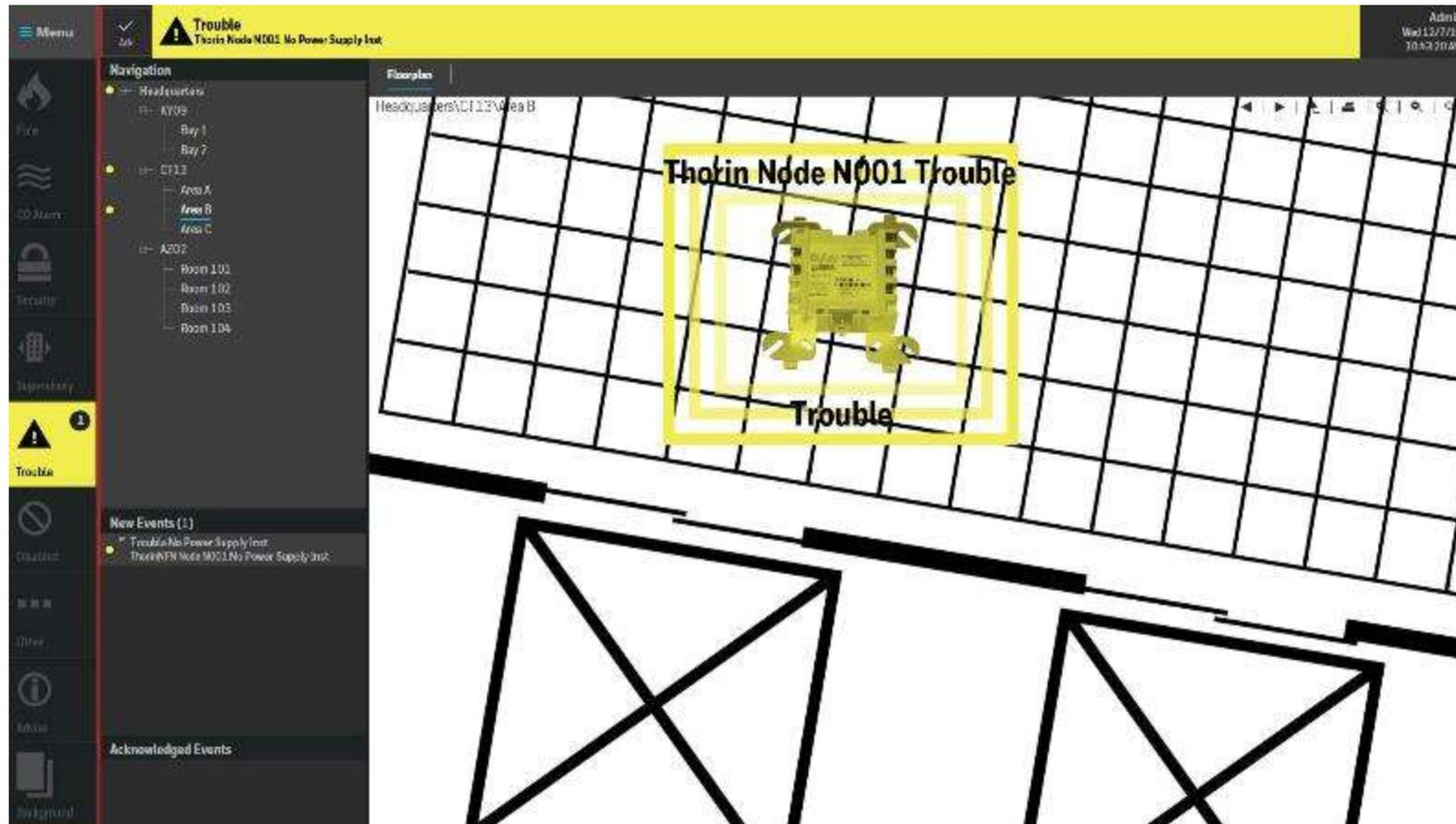
A Clear View from the Top

ONYXWorks - Alarm



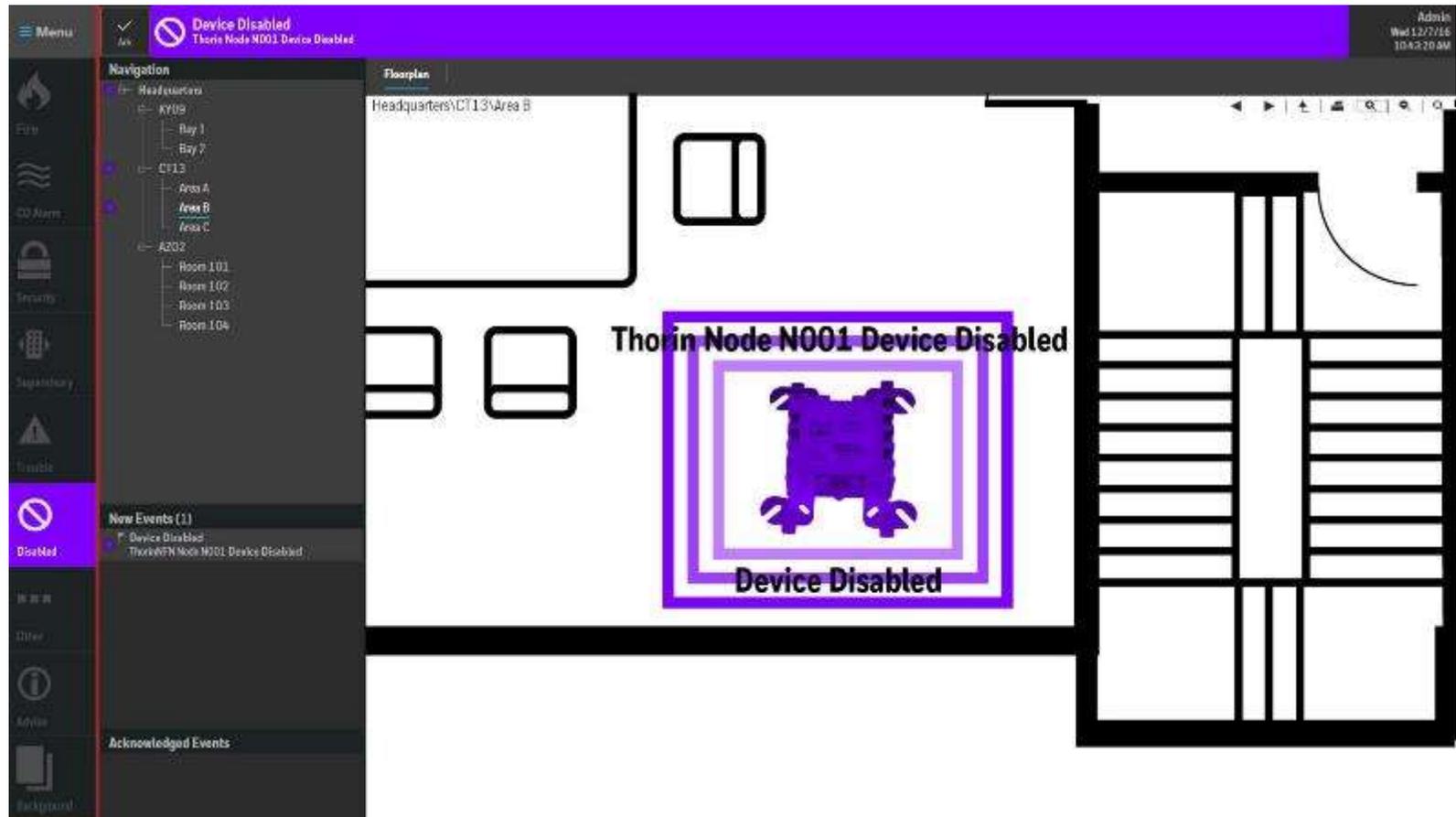
Automatic screen navigation based on event priority

ONYXWorks – Trouble



Customizable colors represent each event type

ONYXWorks - Disable



Customizable colors represent each event type

ONYXWorks – Text Mode

Workstation (NOTIFIER)
File View Action Macros Configure Help

Audibles Silenced Admin

NetLogic Text-Node N0...

New Events (1)

Point	Reported Time	Network	Node	Status	Point Type
Node N060 PANEL	6/25/2010 9:24:03 AM	Network 1	Node N060	ACKed Audibles Silenced	Control Panel

Acknowledged Events (1)

Point	Reported Time	Network	Node	Status	Point Type
Node N060 L01M130	6/25/2010 9:23:59 AM	Network 1	Node N060	ACKed Fire Alarm	Monitor Module

Alarm Summary

1 0 0 0 0 0 0 1

6/25/2010 9:24:11 AM

ONYXWorks – History Manager

The screenshot displays the ONYXWorks History Manager interface. The top navigation bar shows a 'Menu' icon, a 'New Alarm (High)' notification for PC 123 N3A L01M004, and the user 'Admin' on 'Wed 1/11/17' at '7:35:24 PM'. The left sidebar contains navigation icons for Overview, New Events (0), and Acknowledged Events (3). The main area is divided into 'History' and 'Statistics' tabs. The 'History' tab shows a table of events with columns for ACK, Status, Received Time Local, Network Description, Node Address, Event Description, and Point. The 'Statistics' tab shows a table with columns for Event, Point, Screen, and Statistics. The 'Applied Filters' section shows a filter for 'Node Address: 165.54.76.11'. The 'Record Count' is 27, and an 'Export' button is visible at the bottom right.

ACK	Status	Received Time Local	Network Description	Node Address	Event Description	Point
●	✔	1/11/2017 1:48:24 P	PC 123	165.54.76.123 NFN		N13
●	✔	1/11/2017 1:48:24 P	PC 123	165.54.76.123 NFN		N13
●	✔	1/11/2017 1:48:24 P	PC 123	165.54.76.123 NFN		N13
●	✔	1/11/2017 1:39:59 P	PC 123	165.54.76.123 NFN		N13
●	✔	1/11/2017 11:19:50	PC 123	165.54.76.123 NFN	Reset denied, untracked alarms present	N13
●	✔	1/11/2017 11:19:50	PC 123	165.54.76.123 NFN	Reset denied, untracked alarms present	N13
●	✔	1/11/2017 11:19:50	PC 123	165.54.76.123 NFN	Reset denied, untracked alarms present	N13
●	✔	1/11/2017 11:19:50	PC 123	165.54.76.123 NFN	Reset denied, untracked alarms present	N13
●	✔	1/11/2017 11:19:50	PC 123	165.54.76.123 NFN	Reset denied, untracked alarms present	N13
●	✔	1/10/2017 13:05:16 P	PC 123	165.54.76.123 NFN	Reset denied, untracked alarms present	N13
●	✔	1/10/2017 13:05:16 P	PC 123	165.54.76.123 NFN	Reset denied, untracked alarms present	N13
●	✔	1/10/2017 2:59:49 P	PC 123	165.54.76.123 NFN		N12
●	✔	1/10/2017 11:1:49 P	PC 123	165.54.76.123 NFN	Reset denied, untracked alarms present	N13
●	✔	1/10/2017 1:17:45 P	PC 123	165.54.76.123 NFN	Reset denied, untracked alarms present	N13
●	✔	1/10/2017 1:17:45 P	PC 123	165.54.76.123 NFN	Reset denied, untracked alarms present	N13
●	✔	1/10/2017 9:18:15 A	Network	165.54.76.123 NFN	Communication Failure	GM1
●	✔	1/10/2017 8:56:30 A	Network	165.54.76.123 NFN	Communication Failure	GM1
●	✔	1/10/2017 8:56:00 A	Network	165.54.76.123 NFN	Communication Failure	GM1
●	✔	1/10/2017 8:56:00 A	Network	165.54.76.123 NFN	Communication Failure	GM1
●	✔	12/8/2016 9:40:11 A	Network	165.54.76.123 NFN	Communication Failure	GM1
●	✔	12/8/2016 9:22:57 A	Network	165.54.76.123 NFN	Communication Failure	GM1
●	✔	12/8/2016 9:22:57 A	Network	165.54.76.123 NFN	Communication Failure	GM1

Filterable history reporting helps identify maintenance patterns

ONYXWorks – Configurable Windows

The screenshot displays the ONYXWorks software interface. On the left is a vertical navigation menu with categories: FIRE ALARM, MN ALARM, CO ALARM, SUPERVISORY, TROUBLE, SECURITY, DISABLED, ADVISE, BACKGROUND, and OTHER. The main area is titled 'FIRE ALARM' and shows a 'Network Explorer' tree with 'CT13' and 'LDC Office' selected. A configuration window for a fire alarm point is open, showing the following details:

POINT STATUS

State	Normal
Status	Automatic
Trouble Status	Normal
Custom Label	Custodian Closet
Extended Label	

TYPE

Module Type	Control
Type Code Label	Relay
Flashcan Type	Relay

CBE

Control-By-Event	Z0 Z0 Z0 Z0 Z0 Z0 Z0 Z0
------------------	-------------------------

SETTINGS

Switch Inhibit	No
Silenceable	Yes-Resound Fire
Walk Test Participation	Yes
Waterflow Delay	1
Prior Installed Point	L01M034
Next Installed Point	L01M036

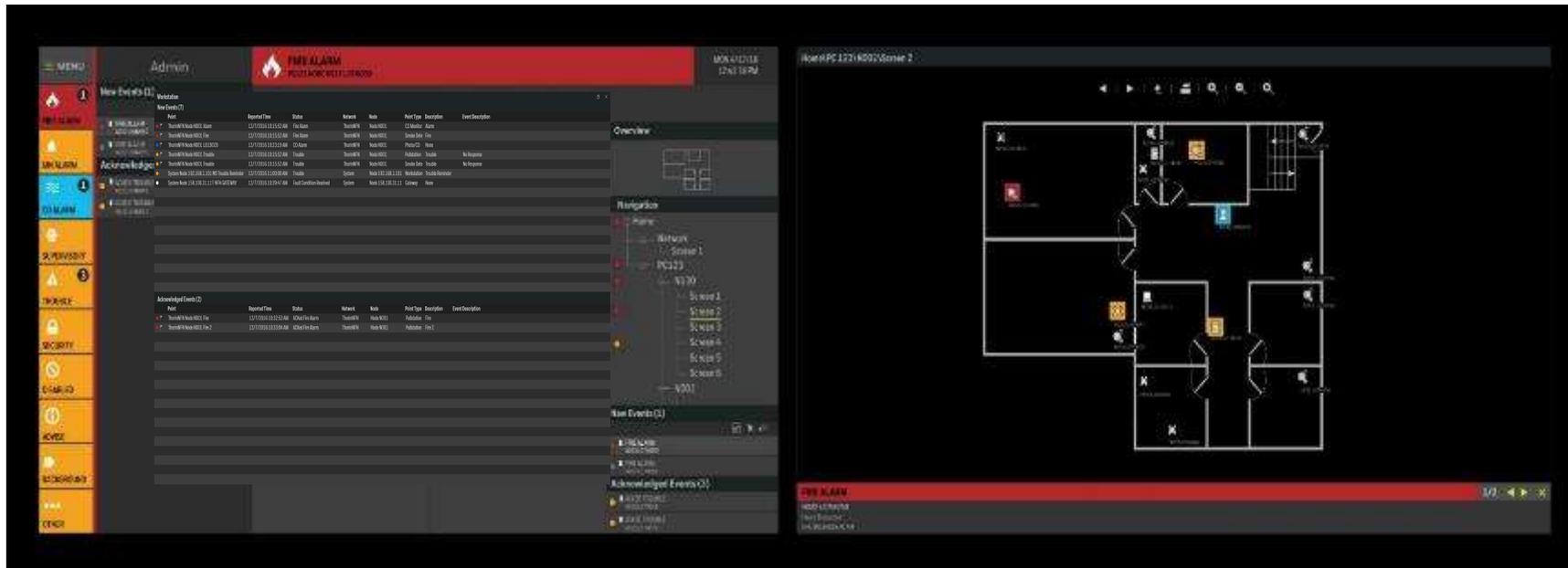
PRECEDENCE REQUEST LEVEL

Smoke Control	No	Off
All Call	No	Off
Annun Manual C...	No	Off

On the right, a 'Floorplan' view shows a building layout with several green dots indicating alarm points. The floorplan is labeled 'AREA G - 2ND FLOOR EXECUTIVE SUITES'. The top right corner of the interface shows the user 'Admin' and the time '8:25:28 AM 8/31/2016'.

Flexible Interface Adapts to Your Needs

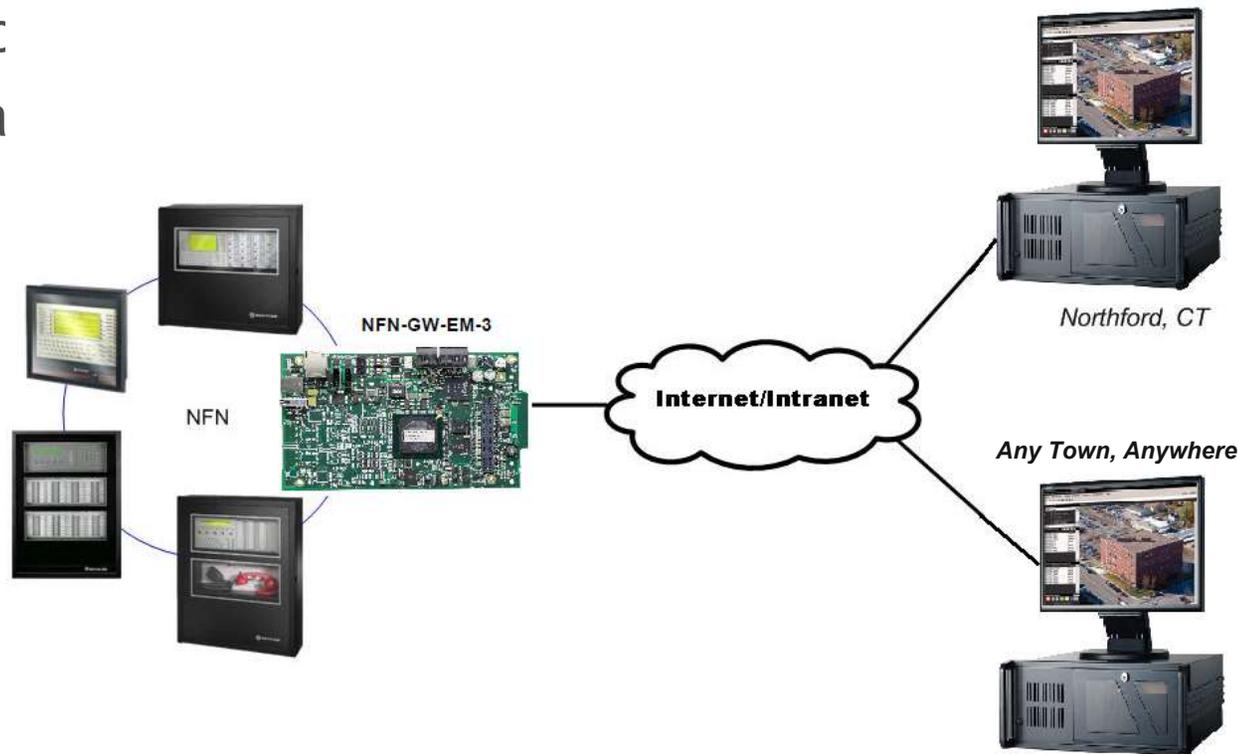
ONYXWorks – Dual Monitors



Configurable Display for Dual Monitors

ONYXWorks – Embedded Gateway

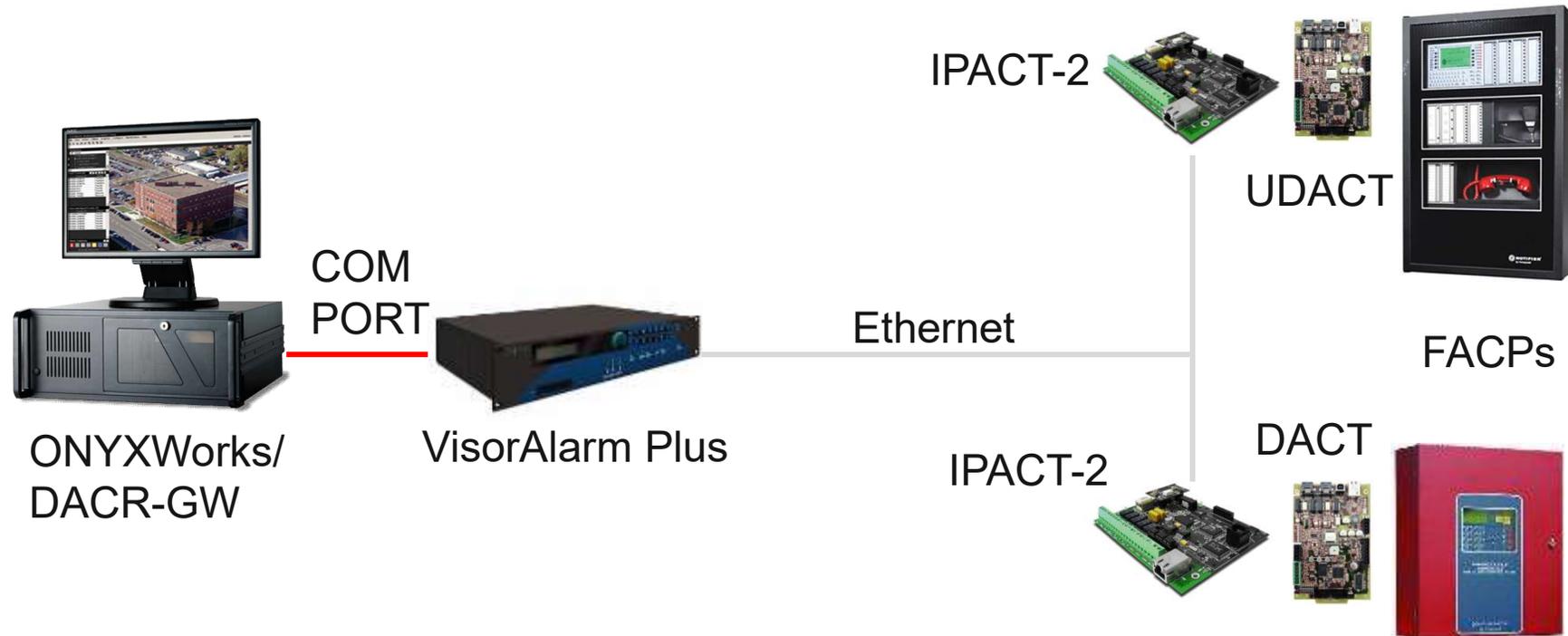
- ❖ The ONYXWorks can be connected via Ethernet IP using the NFN-GW-EM-3 to an entire NOTI-FIRE-NET network.
- ❖ The Ethernet IP connection can be on shared IP or private network
- ❖ Perfect interfa



ONYXWorks – 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

ONYXWorks – Receivers Gateway

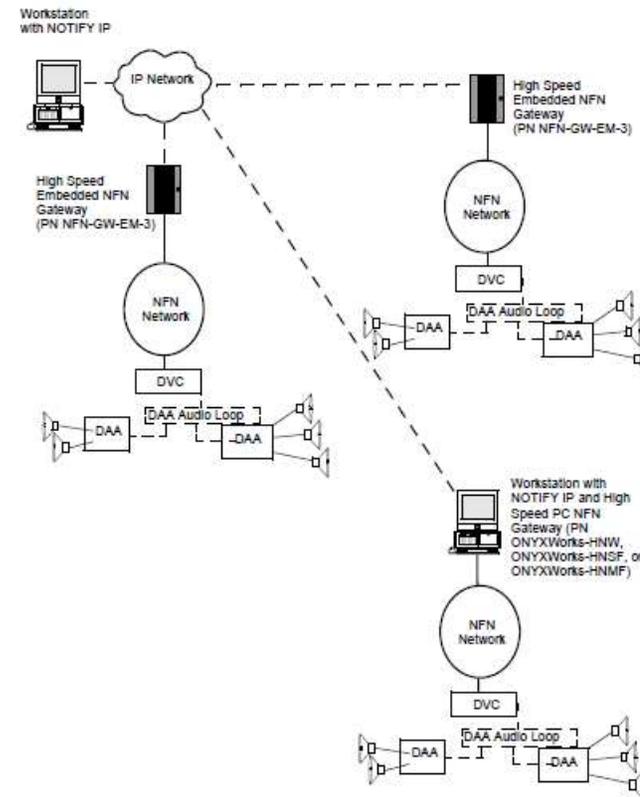


Integrate NON-NOTIFIER products into a common network for a Single Interface

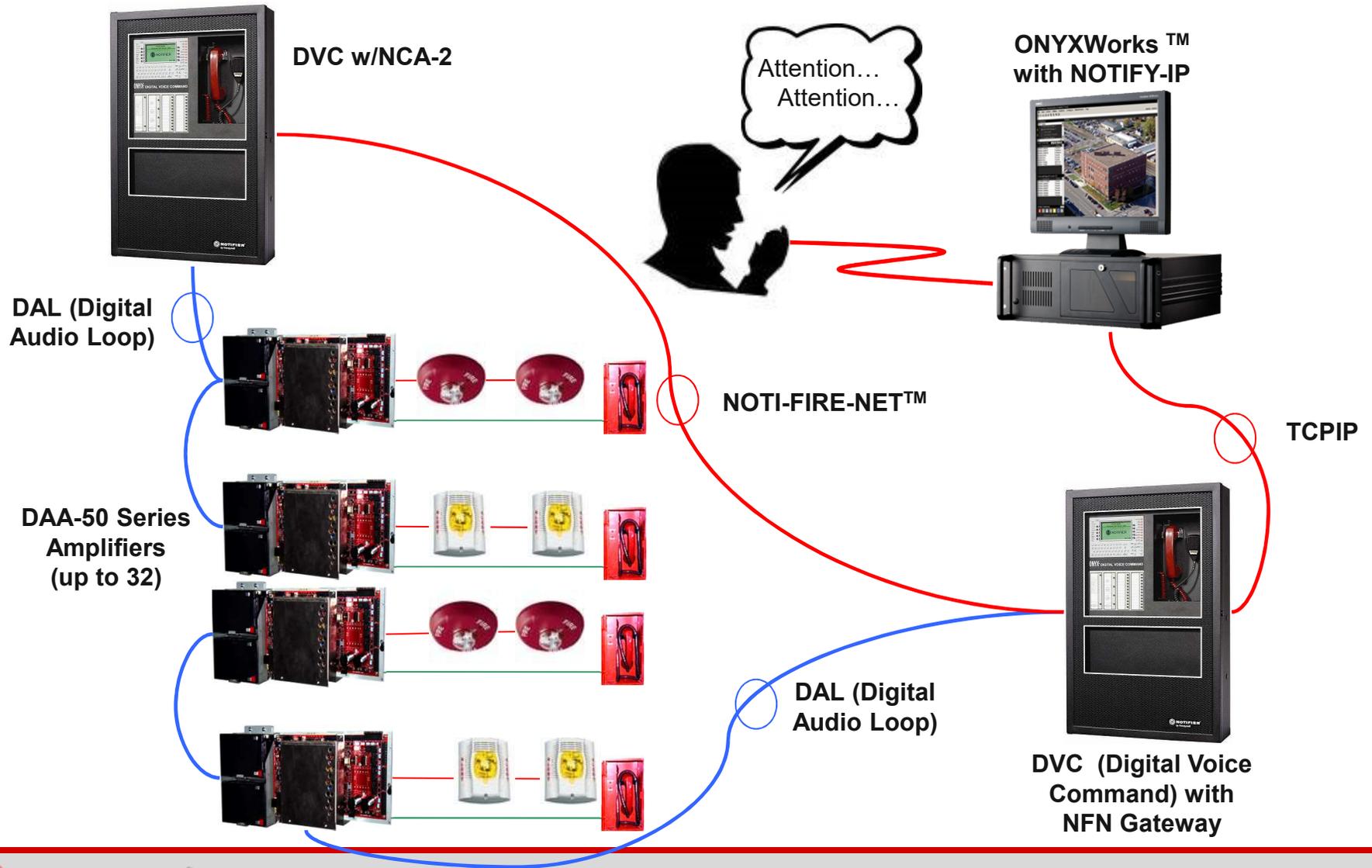
ONYXWorks – NOTIFY-IP

❖ NOTIFY-IP is a 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



FirstVision

- ❖ Revolutionary navigation tool for firefighters and emergency responders
- ❖ Intuitive and Interactive interface for firefighters – a tool for initial assessment and ongoing monitoring
- ❖ Touch screen PC that displays critical information from the ONYX fire system



FirstVision

❖ Firefighter's View of the World

- Extensive focus groups by Honeywell Labs
- Match fire commander's model
- Visual, No text

❖ Time Sequencing & Animation

- Enhance perception of speed, direction, pattern of smoke

❖ Minimal Interaction

- Maximum info, single screen
- Touch screen PC, large buttons

❖ Initial assessment in 30-60 seconds



100% Intuitive – No firefighter training required

FirstVision

- ❖ Configurable Hazmat icon
- ❖ Printing capability from each screen
- ❖ Configurable *Contact List, Building, and Additional Information* section
- ❖ Configurable door unlock
- ❖ Access to MSDS datasheets
- ❖ Audible silence/sound for events
- ❖ “Last Updated” date displayed
- ❖ Multiple building alarms displayed

FirstVision Icons



FirstVision



8:38:34 AM



Demo Campus, 123 Demo Street, Demo City, 12345



Demo Campus, 123 Demo Street, Demo City, 12345

Last Updated -- 05/05/2010
Application Version -- 1.8.800.0



8:38:34 AM



Last Updated -- 05/05/2010
Application Version -- 1.8.800.0

FirstVision

8:39:47 AM

Demo Building 2, 456 Demo Street, Demo City, 12345

Information Campus View Event List

1 Building in Alarm

New Floor

4
3
2
1

8:39:47 AM

Demo Building 2, 456 Demo Street, Demo City, 12345

Information Campus View Event List

1 Building in Alarm

New Floor

4
3
2
1

Last Updated -- 05/05/2010
Application Version -- 1.8.800.0

Last Updated -- 05/05/2010
Application Version -- 1.8.800.0

FirstVision - Features

The screenshot displays two overlapping windows from the FirstVision software, both showing the same HAZMAT data for Acrylic Acid. The windows are titled "HAZMAT Area(Acrylic Acid)" and "HAZMAT in EE27A".

Room Type: HAZMAT Room
Access: Access through the East Side Corridor

Health Hazard	Flammability
Type of Possible Injury	Susceptibility of Material to Burning
<p>3 Extremely dangerous -- Use full protective clothing</p>	<p>2 Ignites when moderately heated</p>
Reactivity	Special Hazards
Susceptibility to Release of Energy	Require Special Fire Fighting Techniques
<p>2 Violent chemical change possible -- Use hose streams from distance</p>	<p>CORR Corrosive ACID Acid</p>

At the bottom of each window, there are buttons for "DataSheet" and "Close".

FirstVision - Features



2:14:26 PM





HAZMA

HA

Room Type:

Access:

Type

3 Extremely protective

Susceptibil

2 Violent che
hose stre

SIGMA-ALDRICH

MATERIAL SAFETY DATA SHEET

Date Printed: 04/26/2007
Date Updated: 02/05/2006
Version 1.4

Section 1 - Product and Company Information

Product Name	(+)-ACRYLIC ACID 2-ETHYLHEXYL ESTER
Product Number	A1915
Brand	SIGMA
Company	Sigma-Aldrich
Address	3050 Spruce Street SAINT LOUIS MO 63103 US
Technical Phone:	800-325-5832
Fax:	800-325-5052
Emergency Phone:	314-776-6555

Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313
(+)-ACRYLIC ACID 2-ETHYLHEXYL ESTER	103-11-7	No

Formula C11H20O2
Synonyms 2-Ethylhexyl acrylate * 2-Ethylhexylester
kyseliny akrylove (Czech) * 2-Ethylhexyl
2-propenoate * 1-Hexanol, 2-ethyl-, acrylate *
Octyl acrylate * 2-Propenoic acid, 2-ethylhexyl
ester (9CI)

RTECS Number: AT0855000

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Irritant.
Irritating to respiratory system and skin. Risk of serious damage
to eyes. May cause sensitization by skin contact.
Combustible. Lachrymator.

HMIS RATING
HEALTH: 3
FLAMMABILITY: 2
REACTIVITY: 1

NFPA RATING
HEALTH: 3
FLAMMABILITY: 2
REACTIVITY: 1

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

ORAL EXPOSURE
If swallowed, wash out mouth with water provided person is
conscious. Call a physician.

INHALATION EXPOSURE

nt List

ning

d

niques

lose

Last Updated -
Application Ver

FirstVision - Features

Building Information	Contact Information	Additional Information
Building Information		
Commissioned:	2009	
Occupants:	Day:	0
	Night:	0
Hazardous Structures:	There are no hazardous structures in this building	
Primary Use:	This building is primarily used for Demo Building 2	
General Information:	This is a placeholder for general information of the building	
Gas Shutoff:	Gas Shutoff in Room BB4C	
Power Shutoff:	Power Shutoff in Room BB4C	
HVAC Shutoff:	HVAC Shutoff in Room BB4C	
Sprinkler Shutoff:	Sprinkler Shutoff in Room BB4C	
Halon Shutoff:		

Last Updated -- 05/05/2010
 Application Version -- 1.8.800.0

Building Information	Contact Information	Additional Information
Building Information		
Commissioned:	2009	
Occupants:	Day:	0
	Night:	0
Hazardous Structures:	There are no hazardous structures in this building	
Primary Use:	This building is primarily used for Demo Building 2	
General Information:	This is a placeholder for general information of the building	
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Power Shutoff:	Power Shutoff in Room BB4C	
HVAC Shutoff:	HVAC Shutoff in Room BB4C	
Sprinkler Shutoff:	Sprinkler Shutoff in Room BB4C	
Halon Shutoff:		

Last Updated -- 05/05/2010
 Application Version -- 1.8.800.0

FirstVision - Features

The screenshot displays the 'Contact Information' tab of the FirstVision software. It features a table with contact details for various roles, a floor plan diagram, and a 'Close' button. The interface includes a sidebar with a search icon and a 'List' button.

Contact Information		
Building Engineer:	Building Engg 123 456 7890	NA
Building Owner:	Building Owner 123 456 7890	NA
Facility Manager:	Facility Manager 123 456 7890	NA
Gas Company:	Gas Company 123 456 7890	NA
HAZMAT Assistance:	Hazmat Assistance 123 456 7890	NA
HVAC Technician:	HVAC Technician 123 456 7890	NA
Power Company:	Power Company 123 456 7890	NA
Water Company:	Water Company 123 456 7890	NA

Last Updated -- 05/05/2010
Application Version -- 1.8.800.0

Building Information | Contact Information | Additional Information

Building Engineer: Building Engg
123 456 7890 NA

Building Owner: Building Owner
123 456 7890 NA

Facility Manager: Facility Manager
123 456 7890 NA

Gas Company: Gas Company
123 456 7890 NA

HAZMAT Assistance: Hazmat Assistance
123 456 7890 NA

HVAC Technician: HVAC Technician
123 456 7890 NA

Power Company: Power Company
123 456 7890 NA

Water Company: Water Company
123 456 7890 NA

Close

Building Information | Contact Information | Additional Information

Building Engineer: Building Engg
123 456 7890 NA

Building Owner: Building Owner
123 456 7890 NA

Facility Manager: Facility Manager
123 456 7890 NA

Gas Company: Gas Company
123 456 7890 NA

HAZMAT Assistance: Hazmat Assistance
123 456 7890 NA

HVAC Technician: HVAC Technician
123 456 7890 NA

Power Company: Power Company
123 456 7890 NA

Water Company: Water Company
123 456 7890 NA

Close

Last Updated -- 05/05/2010
Application Version -- 1.8.800.0

FirstVision - Features

The screenshot displays the FirstVision software interface. At the top, the address "Demo Building 2, 456 Demo Street, Demo City, 12345" is shown. Below the address are three icons: a computer monitor with a checkmark, a red prohibition sign, and a printer. A navigation bar contains three tabs: "Building Information", "Contact Information", and "Additional Information". The "Building Information" tab is active, showing a small floor plan icon on the left. The main content area displays the following text:

MAJOR MEDICAL EMERGENCIES

If it is not practical to move the ill or injured individual, call the UNH University Police and they will obtain an ambulance and escort it to the location of the emergency.

DO NOT PLACE A 911 CALL - THE UNH UNIVERSITY POLICE WILL DO THIS.

For job sustained injury/illness, all patients should be taken to **Yale – New Haven Hospital's Emergency Room, (203-342-XXXX) or their own hospital of choice.**

Hospital personnel should be told it is an on-the-job injury for UNH University, if applicable. Proof of UNH employment, such as a campus ID card, will be required. A First Report of Injury Form must also be filed with the Director of Risk Management, VP for Administration (MS-670).

When the injury or illness involves a chemical, a Material Safety Data Sheet (MSDS) should accompany the victim to the hospital.

The procedure outlined above applies to all individuals receiving pay from UNH University who are injured or become ill while performing an activity that directly benefits UNH University. If transportation is unavailable within the injured's department, a request may be made to the Campus Police to provide such.

At the bottom right of the main content area, there is a printer icon and a "Close" button. In the bottom left corner, the text "Last Updated -- 05/05/2010" and "Application Version -- 1.8.800.0" is displayed. A partial floor plan is visible at the bottom of the window.



SOFTWARE SOLUTIONS

Service and Inspection Software that enhances your
bottom line

eVance Software Services

Inspection Manager



- ❖ Software service that enables a one-man test of the fire system, data viewable on local device and stored in the cloud for easy retrieval

Service Manager



- ❖ Software service to manage the service and inspections of an authorized distributors installation base

Leading-edge software service that streamlines and improves test, inspection and service management

Connected Systems. Customized Solutions

Global Presence. Local Knowledge

Solutions for any application

Advanced Detection including Gas & Flame

Robust ECS/MNS offering

Independent Distributor Network

Support Services

Software Services

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Advanced Detection including Gas & Flame

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Independent Distributor Network

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Software Services



QUESTIONS?



THANK YOU!