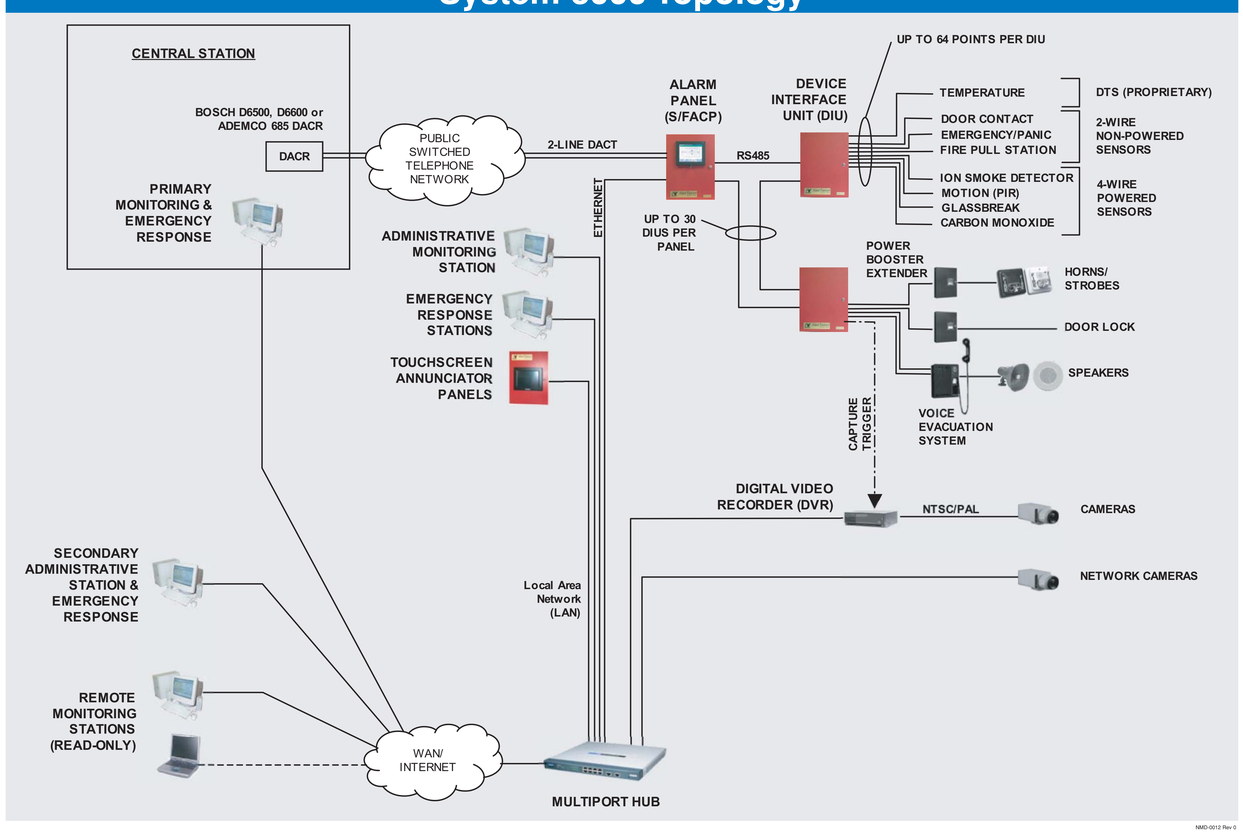
NetTalon's Virtual Command Technology

NetTalon's System 3000 Virtual Command Technology Essential Elements

1. The system provides first responders and all authorized users simultaneous "Virtual Presence" of any protected facility via a graphical representation of the building.
2. Unlike all of today's alarm systems that are designed to detect and alarm in the case of security or detect and evacuate in the case of fire, the NetTalon System 3000 provides continuous, real time information about the emergency.
3. The heart of the System 3000 is software that runs on virtually any PC and provides the current system status of all monitored facilities.
4. The system can operate over any IP friendly network, private or public, wired or wireless which allows monitoring anywhere on the planet.
5. The unique component of the system's fire capability is the use of a digital heat sensor that reports the actual temperature in real time. This element is critical in that it identifies the source and spread of the fire.
6. The same feature applies to security wherein the icons that represent the security sensors provide the capability to locate and track the intruders.
7. NetTalon has documented, unqualified endorsements of the technology from several high-level fire, police and government officials.
8. The intellectual property protection/patent(s) covers all of the critical and unique elements of the system including emergency fire and security information sent via any network, such as the Internet.

System 3000 Topology



NMD-0012 Rev 0

System 3000 Technical Overview

Powered By V³ Technology (Virtual Visual Validation)

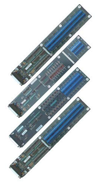
Introduction: The NetTalon System 3000 is an emergency information system, designed and built on the premise that more information facilitates better decisions. The System 3000 is comprised of a family of communication products that detects and notifies multiple first responders and monitoring centers of changes in site conditions in real-time.

The NetTalon System 3000 represents a change in the method of communications traditional to conventional alarm systems, differentiating it as an emergency information system.

The Difference: At every level, the System 3000 delivers improved system performance;

- Modular interface boards allow for easy expansion and flexible configuration.
- Rapid response time, 1-2 seconds.
- Network-friendly design allows for worldwide monitoring capability.
- Simultaneous update of changing site conditions to multiple monitoring stations.
- Graphic user interface provides more information in less time and with less complexity.

Modular Interface.



Each of the distributed interface units houses up to four (4) sensor/control interface boards (any combination). Boards may be added anytime to expand the capabilities of the system. System design allows for integration of future interface boards without system hardware/firmware change.

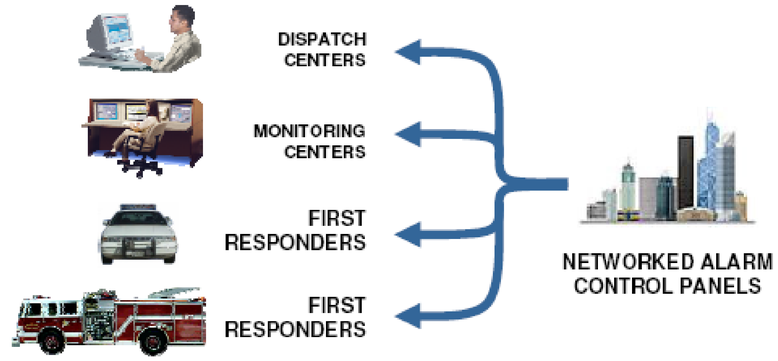
Rapid Response.

The speed of the System 3000 is enabled through the contribution of a number of system design elements:

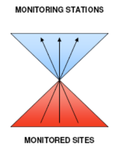
- Each sensor/control interface boards polls the line conditions hundreds of times each second.
- Each DIU is polled by the Alarm panel every 1/30th second over a pair of redundant signaling circuits.
- Upon detection of a change, registered monitoring stations are immediately updated ('events' are *pushed* to each monitoring station).

Network-Friendly Design.

The System 3000 uses Internet Protocol (IP) for communications over the network interface, making it compatible with a wide variety of network topologies, firewalls, and secure network communication devices.



Simultaneous Updates.



Each and every alarm panel notifies all authorized monitoring stations of changes taking place at the site. The ground commander no longer has to serve as the incident communications hub, freeing their time to make command decisions and coordinate

Graphic User Interface.

The alarm panel and each of the monitoring stations provide graphic-rich screens to simplify the user interface and speed notification. All icons are updated at the same time, allowing multiple, simultaneously changing events to be displayed as they occur. Icons may represent individual sensors or may represent groups of sensors (in which case, they are 'hot' and allow navigation to the next layer on selection).

Product Family: The System 3000 product family includes:

- Model 3210: Alarm Panel
- Model 3220: Distributed Interface Unit, housing a combination of;
  - Input Card (16-ch)
  - Digital Temperature Card (16-ch)
  - Output Card (8-ch)
- Model 3110: Administrative Monitoring Station
- Model 3120: Remote Monitoring Station
- Model 3140: Touchscreen Annunciator
- Life Safety Stations

Applications: Because of its design flexibility the System 3000 may be used to support a wide foundation of infrastructure protection:

- Building Security Protection
- Building Fire Protection
- Force Protection
- Environmental Monitoring
- Critical Infrastructure Protection (power plants, communication centers, water treatment plants, fuel storage facilities, etc.)

The System 3000 is compatible with a wide variety of existing sensor technologies, ranging from simple door contact sensors all the way to VX gas detectors. Further, due to its IP-friendly architecture, special hot icons may be configured to activate client interfaces to sensor systems (access control systems, fence intrusion systems, digital video systems, range-gated radar, etc.).

Future Expansion: The flexibility of the modular interface board design allows new boards to be developed for sensor interface applications. Only the alarm panel and monitoring stations need to be updated to accommodate new board types. When required, the alarm panel and monitoring systems may be updated remotely over the network interface.

Listings:

- FM Listed
- UL 864 Listed
- UL 2017 Listed
- UL 1610 Listed
- UL 1076 Listed
- FCC Class A Approved

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