



WORKSITE SECURITY 2006

Progressive Ideas and Leading Technologies

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New Network Technologies Optimize Security Systems

The growing need to protect people, assets and property has led to an increased focus on security in the workplace. While many facilities currently have security systems in place, innovative technologies are advancing the employment of networked systems to the area of physical security. Newly developed network video surveillance devices offer compatibility with legacy analog based systems, allowing seamless co-existence of analog and digital products, or enable migration to a complete digital platform.

Network security solutions are quickly being embraced due to their convenience, lower cost of installation and ownership, and increasingly superior

image quality. For users, finding the optimal hardware to place on the network is of critical importance. This is particularly true for the cameras at the system's front end and recorders at the back end, as these devices define the quality of the captured video information.

With the advent of the network in security applications comes the need for users to integrate many components, both hardware and software, from different sources. Hardware manufacturers at the forefront are already providing a simplified approach for users with the formation of solution developer networks and open-platform partnerships with complementary manufacturers. Also now available to

users is specialized, enterprise-level consultative assistance in the form of planning, design, installation, and implementation of total networked video surveillance solutions. As a result, more advanced network-based video surveillance systems continue to emerge in high-profile venues such as ball parks, banking institutions, and corporate headquarters.

Integrating all security functions within one network, incorporating both wired and wireless technologies and accessible from every type of network-enabled device, will become the norm. As network security technologies continue to develop, video surveillance will integrate more with other essential operations within organizations and facilities, providing the requisite safety and security to protect important assets.

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Panasonic Security Systems

Panasonic Security Systems has been the recognized leader in professional video surveillance for nearly 50 years. With a comprehensive line of intelligent analog, hybrid, and IP video surveillance solutions, Panasonic's renowned technology, quality and reliability deliver peace of mind, in and around facilities. Panasonic's expert team of enterprise engineers offers consultative planning and design assistance to the education, health-care, transportation, sports and retail industries, as well as the government. www.panasonic.com/security/BW • 866.PAN.CCTV (866.726.2288)

Integrating Vital Security Systems At The Enterprise Level

Integration typically involves the sharing of information between two or more systems with the objective of providing a common user interface. This level of connectivity increases efficiency and allows the integrated system to make "intelligent" decisions based on the status of either or both systems.

Security systems operating on the enterprise level incorporate those security technologies most commonly deployed in large scale facilities: video surveillance systems, access control systems, fire and alarm systems. These can be configured, operated and changed in countless ways given the nature of

the system. Once the network connection is established and a common interface is determined for all of the integrated systems, the configuration can be tailored to meet the user's immediate and changing needs. Unlike traditional hardware driven systems, the enterprise security system is limited only by the power of the software controlling it.

In security and surveillance operations, there are a number of systems that can provide information valuable in identifying breaches of procedure, and trends in abnormal activity. By storing the shared data from these systems and providing a common interface capable of "mining" the database, specific

combinations of events can be readily identified and users alerted to defined behavior.

The most significant benefits of enterprise security systems include the capability to manage all of the systems from a centralized location, or any location on the network. In addition, enterprise security systems allow for systems architecture to be distributed along several network nodes with the ability to share data between multiple systems.

To design, install and deploy an enterprise level security system, it is key to find a systems designer and integrator with knowledge and experience in the latest technologies, who has been progressively applying the system building blocks that have led to the realistic deployment of enterprise level security systems.

To read the full report, go to www.expert-insights.com/nav.asp



North American Video is one of the premier security systems integrators in the country and was named "Systems Integrator of the Year" by Security Distributing & Marketing in 2005. From system design through equipment installation and training, North American Video provides unmatched performance, integration, customer service and support. With offices located around the world, North American Video's extensive client list includes casinos, government, schools, corporations, retail, medical and financial institutions. info@navcctv.com • 1-800-714-0717 • navcctv.com

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New Motion Detection Technology Revolutionizes Security Systems

Existing Technology, New Innovation – Motion detection sensors based on ultra-wideband (UWB) technology offer expanded capabilities over existing microwave, infrared and other motion sensing technologies. UWB was recently approved for use by the FCC, opening the door for the development and commercialization of new applications. The security industry and all organizations needing increased security will benefit greatly from new UWB-based sensor systems.

Unlike most other transmitters that operate in the frequency domain, UWB motion sensors...

1. Do not need a lens to 'see' into the world

2. Are capable of detecting motion through concrete walls and from under roads

3. Require very little transmitter power – less than a cell phone

4. Operate in the time domain, enabling real time distance measurement of the target

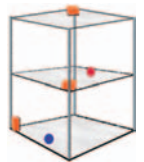
5. Provide target velocity in real time

This ability to detect motion through walls changes the security paradigm. Totally hidden, the sensors are clandestine, tamperproof, weather-proof and virtually undetectable. These sensors can be integrated with existing indoor and outdoor security systems that are Internet compatible. For

example, these motion sensors are being used to direct CCTV cameras in outdoor perimeter security systems for quicker target detection. Alarms can be monitored remotely via the Internet.

In the future, three sensors working together will be able to track motion in 3D, giving a greatly enhanced image of people inside buildings, as illustrated in the graphic.

Other current uses for this technology include portable, wireless life detection systems for First Responders for Search and Rescue in debris piles and collapsed buildings and even smaller, more portable systems for police officers to use as personal protection devices.



To read the full report, go to www.expert-insights.com/ultravision.asp



UltraVision Security Systems, Inc. (UVSS) builds on 35 years of UWB technology developed by its parent company Geophysical Survey Systems, Inc., the world leader in ground penetrating radar systems. UVSS specializes in through-wall motion detection and life detection systems using both UWB and microwave technologies. Microwave technology has been licensed from BAE Systems. **866-374-9732 • www.ultravisionsecurity.com**

Using Smart Cards to Improve Your Security and Bottom Line

Historically security has been seen as overhead and not expected to improve the operations of the organization. Security professionals gave little attention to Return on Investment (ROI) and focused more on the trade off between convenience and safety. And while as business leaders we may know we need to secure our assets, it has been challenging to quantify how security efforts can add to the bottom line of the organization and why the inconvenience and expense is important.

New technology is changing this paradigm.

By deploying the latest security technology, business leaders can bring tangible benefits and improvements to the bottom line of their organizations. Over the last 3 years new technology has been introduced into the security market that will allow business leaders to:

- Lower costs
- Improve security
- Improve efficiency
- Reduce staff
- Combine business units

The key advancement that has allowed this to happen is the development of smart cards. With the deployment of a smart card centric security system, business leaders are able to not only improve the security of the organization, but also improve employee productivity, efficiency, and reduce organizational costs.

A properly deployed smart card system will allow users to more quickly access the applications, network, and facility resources they need to perform their tasks. This can all be done while controlling or even eliminating support personnel.

To read the full report, go to www.expert-insights.com/protoc.asp



For over 30 years Pro-Tec Design has assisted clients in the evaluation, selection, and deployment of security technology. We specialize in the design of non-proprietary, industry leading solutions that leverage existing infrastructure and maximize return on investment. Our designs include full IP, edge-to-edge solutions that are controlled through one common graphical user interface (GUI) with multiple layers of redundancy that bridge between the logical and physical security worlds. **www.pro-tecdesign.com • 763-553-1477**