Why Use Valcom IP Solutions?
Voice-over-Internet-Protocol (VoIP) is an emerging technology that allows overhead paging and intercom communications to be transported over your existing IP data network topology. Traditionally, voice and data were carried over separate networks optimized to suit the differing characteristics of voice and data traffic. With advances in technology, it is now possible to carry voice communications and data over the same networks. This provides for the addition of new voice communications features without the need for installing new cabling. Today most companies have a heightened state of awareness towards safety and security and a constant demand for productivity improvements in the workplace. Digital audio communications provide noise free performance over long distances or severe communications environments. With Valcom VoIP your important messages will get communicated.

How Do Intercom and Paging Communications make Your Buildings Safer?

- **VoIP Overhead loudspeaker paging systems** have been determined to be one of the most cost-effective alternatives in providing a complete customer communications solution. Speaker Phone paging only reaches those areas that may have a phone. Many times you need to page public areas to find people or report emergency conditions.

- The efficiency of a VoIP system allows for the fast and secure execution providing clear messages to building occupants during natural disasters and other security related emergency threats. With Valcom your existing telephone becomes your access point to all your voice communications applications.

- Access control card readers and video surveillance systems that are integrated with a VoIP communications system provide a complete customer security door control and alarm call in solution.

- Without intercom 2-way communications, even the most sophisticated video security system is just a passive one-way monitoring system. Audio monitoring expands the security protection envelope. With intercom operation to remote points your guard force will be more responsive. Receive remote notification of threats using VoIP Intercom speakers.

- Often emergency call boxes and video cameras are installed to provide employees and visitors with protection in high-risk public areas. Intercom speakers and call stations should be provided at every camera location, controlled access points, card reader areas, entry door, parking gates, loading ramps and stairwells.

What makes Valcom IP Product Solutions So Unique?
As workforces and your business become more mobile spreading out beyond your headquarters, the more critical it becomes to be able to communicate to the your employees. Valcom’s IP Solutions uses existing LAN, WAN or fiber to easily create robust, distributed communications systems that work between floors, buildings, cities, states or countries providing an economical solution to complex communications problems. Whether you need to simply extend a single zone of paging to another building, or establish an independent system of phones and speakers for security personnel, Valcom’s IP Solutions make your job easy.

Valcom IP Solutions products are designed from the ground up to offer robust, survivable communications in any environment. From our patent pending communications protocols and techniques to our industrial electronics and housings, IP Solutions products strive to provide uninterruptable communications around the clock. Valcom VoIP technology is ideally suited to provide emergency and security information throughout your enterprise.
IP Solutions products use patent pending techniques to form reliable peer to peer communication meshes that have no single points of failure. There are no servers to fail or require complicated, expensive hot stand-by solutions. As long as there is a network connection between the devices they work.

Configuring and managing IP Solutions devices from anywhere on your network is easy using a Windows based setup tool. Once the system is configured, or changes are made, you no longer need to have the tool present for the system to work. Customers typically use a laptop for these functions. Assigning VoIP speakers and adapters to individual zones or groups for defined paging access has never been easier.

Integrating IP Solutions into your phone network will provide enhanced safety at building and campus access points, worldwide communication of informational and emergency messaging, and operational efficiencies using flexibly managed command centers. Whatever your business Valcom has an IP Solution to suit your needs.

What kind of things can Valcom IP Solutions do for my facility?
At Valcom we feel that our IP Solutions can provide your facilities with new alternatives to add functionality, safety, lower installation costs and increase efficiency. Use spare fiber pairs to network devices on floors, IDF closets or your entire campus for integrated paging and access control communications. You can also add remote paging microphones in a new building and/or area.

1. Integrate IP Valcom VoIP solutions with any PBX using FXO Loop Start Trunk Ports.
2. Initiate announcements and intercom communications anywhere on your network using your existing PBX telephones.
3. Door Intercom stations can be installed at any entrance to provide security personnel with communications and door unlocking control.
4. Deploy IP based talkback speakers to speak or monitor any remote IP camera location.
5. Access remote paging system controllers by dialing individual zones or groups.
6. Use your existing VPN (Virtual Private Network) or LAN / WAN to connect PoE paging speakers and intercom stations anywhere thought your facility.

Connect remote Valcom amplified speakers to reduce installation costs or connect speakers when wire pairs are not available.

IP Solutions Fit Every Application:

Commercial Business - Worldwide Communication
Applications: Office Buildings, Banks, Stores, Shopping Centers/Malls, Warehouses, Distribution Centers
Connect paging speakers for announcements between floors, buildings, cities, states or countries.

CORRECTIONAL FACILITIES - SECURE COMMUNICATION
Applications: Prisons, Police Stations, Courthouses, Detention Centers
Communicate between cells blocks, guard stations, stairwells, emergency operations and offsite command center.

EDUCATIONAL FACILITIES - CAMPUSWIDE COMMUNICATION
Applications: Administration, Classrooms, Library, Dorms, Cafeteria, Gyms
Public announcements and intercom operation for Administration offices, portable classrooms, hallways, multiple on-campus buildings and clocks.

GOVERNMENT - LOCAL AND WORLDWIDE COMMUNICATION
Applications: Homeland Security, Military
Instantly Connect with bases, agencies, command centers, mobile facilities, surveillance sites, administration and worldwide operations.

TRANSPORTATION - SYSTEMWIDE COMMUNICATIONS
Applications: Airports and Terminals, Rail and Trams, Ships and Port Facilities, Bus Facilities
Notify passenger stations, security operations, parking, passenger assistance and offsite command centers.
Highlights:
No Server Required
Network based paging and audio message delivery over LAN/WAN/Fiber
Supports 1000's of zones without head-end server hardware
Interface to self amplified overhead loudspeakers and power amplifiers
Two Way speakers offer Call In Push Button operation
Fast to install (RJ45 Connectors), easy to maintain
Audio monitoring and hands-free intercom capability at any end-point
Easy to use software provides seamless zone management and expansion capability
Communicate with multiple facilities, locally, regionally and globally

Benefits:
Cost effective and Scalable
Improves interoffice communications and your Customers
Easily integrates as part of your emergency systems
Installs overhead paging and intercom using LAN/WAN or Fiber
Reduce excessive paging interruptions with zone paging, group calls
Utilizes existing Ethernet network or spare fiber infrastructure
IP integration thru simple analog trunk port provides intercom and paging operation from any IP telephone set
Network ALL your buildings for paging and intercom without leased line PSTN charges!

Features:
Available in 1, 2 and 4 channel models
Rack Mounting 19 Inch
Station, Trunk and audio adapters available
PoE Intelligent Speakers can page and also Call In to security desk
Easy Windows Based Setup is included with every device
Web based configuration/setup
No Server Required, Survivable operation
Can use DHCP servers to acquire IP addresses.
1 to 11 Digit Dial Plans
Contact Closure Available for:
  - AUX Audio input
  - CCVE Camera capture
  - Audio On Indication or strobe light activation
  - Door Unlocking phone pad release

Specifications:
Protocols
  DHCP, IGMP v3, UDP, TCP, HTTP, Telnet, FTP
Voice Algorithm
  G.711 (64kbits/s)(ulaw) Echo Suppression
Electrical Properties
  Voltage: 24 Vdc @ 250 mA IEEE 802.3af compatible, class 3 device
Regulatory FCC Aproved