



Management Server Software

Connects all facilities that can be integrated via the TerraServer software which allows each IP device to be monitored and controlled.

From a single point of access the user has a complete overview of what is going on across the whole system.

We can achieve this as each IP device is connected to a common network managed by a PC and the TerraServer software. This also has recording and editing Software allowing the user to make and edit their own recordings should they wish to make pre-recorded announcements such as "The store is closing", "We have a promotion, "Demonstration on first floor" etc.

Public Address

Functionality of the public address is achieved using a number of devices.

IP PoE Microphone Console

Enables an operator located at the head office to make paging announcements to any individual or group of remote branches in the country or anywhere in the world.

The console has a touch sensitive LCD display with programmable soft keys which can be configured to select paging zones, trigger events such as open doors, play pre-recorded announcements & turn lights on or off. The microphone console also has a built-in speaker to allow monitoring of broadcasts & two way communication with Intercom units and IP Telephones.

Audio Gateway

Speakers located in each of the shops are powered by a local amplifier. Each amplifier is connected to the IP network via an audio gateway which takes the audio from the network and provides the amplifier with a standard line level input. Music can be played in the shop by taking the output from a music source and feeding it directly into the Audio Gateway. The same music source can also be routed to any other gateway or IP PoE speaker. Local microphones can also be accommodated for use by the shop staff to make announcements. Music can be streamed live or downloaded at night from the head office to each store along with advertising recordings. The music and adverts can be played using the Management Server scheduler at set times or manually activated locally at each store.

By using a microphone located at the store counter connected to an Audio Gateway or via a IP PoE speaker we can record staff conversations with customers so that in the

event of an incident the recording can be used as supporting evidence or used for staff training in conjunction with CCTV footage.

IP POE Projector Speaker

It may be more economical to fit an active IP PoE speaker if only a few speakers are required in a shop. This would save having to supply and fit a local amplifier, cabling and power sockets etc. IP PoE speakers can receive paging announcements directly from the IP PoE Microphone, the Intercom unit or an IP telephone. The speaker has an optional built-in microphone which can be used to monitor & record activity for the purpose of surveillance. The speaker also has an auxiliary microphone input which could be used to input a remote or wireless microphone.

Intercom

Located at the staff entrance, enables communication directly to the managers office intercom unit or via the shop speakers or IP PoE microphone through its inbuilt speaker. If the call is not answered it could be automatically diverted to any IP Telephone, to a mobile phone or a remote call station. We could automatically turn on a light at the entrance or play a pre-recorded message via a speaker when the Intercom call button was pressed while routing the call. The door could be opened using a soft key on the IP PoE microphone or via a push button or function key on an IP Phone.

Door Access

The Lock Controller will manage the opening and closing of barriers & door locks via output contacts. The Management Server scheduler can be used to open and close doors at pre-set times. It can also be used to log entry and exit times.

Integration with IP Telephone System

TerraManager can interface with a SIP based IP telephone system. If an IP phone system is used we can make use of these features:

- Make paging announcements from any IP phone to Public Address speaker zones/areas.
- Use the Reception IP PoE Microphone to page any individual or group of IP telephone handsets via their hands-free speakers. This will save having to fit dedicated speakers in many areas.
- Use function keys on either the IP PoE microphone or Telephone handsets to trigger events such as open door locks, play automated messages, and turn on/off lights or power to devices.

