

## Case Study

### Name of Scheme



|                               |   |  |
|-------------------------------|---|--|
| <b>Client</b>                 | : | PNC Global Logistics UK Ltd  |
| <b>Client Contact details</b> | : | Howard Wilson  |
| <b>CDI Project Manager</b>    | : | Glyn Rogers  |
| <b>Scope</b>                  | : | Brand-Rex Cat5e Structured cabling System, Access Control, CCTV & Intruder, IP VOIP Telephony, & Wireless System |
| <b>Contract Value</b>         | : |  |
| <b>Contract completion</b>    | : | December 2012  |



### General/Brief

CDI Group was approached by PNC Group Logistics UK Ltd to provide a cost effective and integrated IT solution for their new Distribution Warehouse and Office's at Kings Norton.

CDI Group provided a "one stop shop" solution for all of PNC Global Logistics IT requirements which included the design & Installation of:

- Brand-Rex Category 5e Structured Cabling System which supports the following:
- PNC Global Data Network
- IP Security CCTV
- Access Control
- Intruder Alarm
- Telephony
- Broadband Services
- Wireless Network.

The security solution had to include the following security disciplines:

- An intruder alarm automatically linked to the police
- A CCTV system to monitor and record the perimeter of the premises and main entrance points
- An access control system to prevent unauthorised access into the building and provide staff with monitored free access with the ability to restrict areas if required

All system had to be scalable with the ability for remote connection to other sites and they indicated that there preference to use the latest equipment available to future proof their investment. A short time schedule was required to meet the customer's targeted open day.

### Process Selection

An initial consultation was held the client to agree the client's specifications and to understand their business requirements. A security risk assessment was then carried out on the building and the surrounding area which enabled us to establish the security risk grade for the property.



## The Solution

### Intruder Alarm

Following the risk assessment it was deemed that the property required a Grade 3 intruder alarm system signalling to the local police authority. Honeywell was selected to provide the Grade 3 intruder equipment which provides advanced levels of detection technology and high level false alarm immunity.

### Access Control

The latest Paxton Access IP solution was selected as the preferred equipment manufacturer. The system would be conducive to the IP infrastructure being installed by CDI Group. The IP solution is scalable to allow for the clients future requirements. The access control platform would also be interfaced to the latest IP Video Intercom enabling PNCG clients and visitors to contact the staff who would then be grant access to the reception remotely from the monitor position.

The system is managed via a software package on a centralised PC which enables the management of the system issuing and deleting cards and user, restricting the movement through the controlled doors at designated times and prevents unauthorised access to nominated areas. All movement is logged which can then provide reports on selected activity. The access control cards have also been screen printed to provide the staff with Identification badges.

The systems can be extended not only locally but to other sites which then can be managed by the centralised Paxton Access software either from the Birmingham site or from the Head office

### Closed Circuit TV

The CCTV equipment selected for this project is Pelco by Snider Electronic. The proposal was for an IP Network Video recording solution which is scalable and flexible and will accommodate the client's future surveillance requirements. The system is open architecture ONVIF compliant which allows integration of CCTV components from different manufacturers enabling us to install the "best of breed" technology. The system can be viewed at remote locations via PC's loaded with "client" interface software or via smart phone. The system can be integrated with the access control and intruder alarm systems which provides a fully managed security solution

Additional cameras can be added at any stage in the future and If other sites within their group are fitted with the same recording solution they can be viewed and managed remotely at Head Office on single platform.

The system incorporates the latest IP megapixel/HD High Definition colour cameras and the recording facility can expand to a total of 128 IP cameras. The internal storage capacity for recording can be economically upgraded to accommodate additional cameras by adding addition hard drive units as required. The cameras are powered by a PoE switch which is supported by a centralised uninterrupted power supply backup in the event of mains failure. This provides an initial cost saving for the client as mains power supplies are not requires at each camera location.

The cameras are viewed on High Definition 24" TFT Monitors and can also be accessed by up to 6 simultaneous remote connections.

**Wireless-** CDI group install an HP wireless network. The objective was to cover the warehouse and office space. This was achieved by completing a full Airmagnet survey which measures the environment and ensure the correct amount of access points required and the locations to be installed. All access pointed was powered by an 24 Port POE switch located within comms room.

**Voice** – CDI Group installed an Aastra 400 communication Server to deliver voice communication throughout the office and warehouse. 4 Static Aastra 5361 handsets was installed within the office space and 3 x DECT handsets (Wireless) was installed for warehouse coverage. Two base stations was installed to cover both warehouse and office. ISDN 2e was installed as the preferred incoming

voice service which offers the best quality and resilience . Along with this CDI Group offered the most competitive line rental and call tariff that best suited the business needs.

**Broadband** – CDI Group installed ADSL 2+ service into the comms cabinet to drive all data requirements. This has the capacity to be as fast as 16Mbps.

## Conclusion

This was a very successful project, delivered on time and within budget, meeting and exceeding the client's expectations. They have a Structured Cabling System by Brand-Rex one of the world's leading cabling manufactures which supports a security and telephony solution that are cost effective, yet provides state of the art technology that meets all the latest British and European standards. The systems are as future proof as can be achieved in this world of quickly changing technology and is extremely user friendly and easy to manage.

The PoE system provides the client with a lower cost of ownership. The installation costs were lower due to the cabling configuration and savings from not having to install numerous power supplies in the building. The running costs of the PoE based systems are lower in comparison to traditional mains voltage system and have the added benefit of a centralised battery backup.

## Client Comment

### Howard Wilson of PNC Global Logistics:

CDI was chosen as our provider for this project as they offered fully integrated systems that met our exacting needs. I found the initial project consultancy to be comprehensive and highly informative with sensible recommendations. CDI Group provided a bespoke designed category 5e structured cabling system as the platform for our data, voice, wireless & security solution which has met all of our business goals and objectives. The installation engineers were very professional and courteous whilst working within our premises. The project was completed within the projected timescales and budget. I would recommend CDI and look forward to working with them in the future.