



PW Comms UK Limited Case Study

Client: Cheshire East Council

Location: Leighton Primary School Crewe

Market Sector: Education

**CONNECTING PEOPLE APPLICATIONS
& TECHNOLOGY**

Introduction:

Schools in the Cheshire East and West Councils have been upgrading the LAN infrastructure in primary schools in order to make use of better internet connections, improved interactive learning experiences and the implementation of Voice Over IP (VoIP) technology. The County has recently implemented a county wide Avaya VoIP solution and is keen to offer the service to schools in order to make savings on call costs and rented lines.

To use the VoIP successfully the LAN infrastructure of the school needs to be up to a minimum performance standard. Many Primary School networks have evolved over a 10 year period and are a mixture of different cabling, Ethernet Hubs/Switches and inefficient slow network topologies. In order to achieve this County Schools IT Team have undertaken a LAN Infrastructure Upgrade Program to bring cabling, hardware and network topologies up to the approved Cheshire Corporate Standard.

Leighton Primary School Requirements:

Leighton Primary School, Crewe is a 1950,s building with various pre fabricated extensions connected to the original building. Limited cabling routes and containment existed.



The existing school cabling was “over subscribed” and extensive use had been made of mini Ethernet Hubs/Switches in class rooms to give the required number of user connections. The existing cabling was based on home run cables back to the main comms room 12U Wall Cabinet which was congested and did not have enough depth for the new compliant switch equipment. Existing cabling infrastructure needed to be tested and expanded such that each device had a dedicated connection to new Ethernet Switches being supplied as part of the LAN upgrade.

A new ICT suite would be created in the existing Food Technology area with 12 new connections.

PW Comms were engaged by the school to upgrade the LAN infrastructure to the Cheshire Corporate Standard.

PW Comms Solution

The existing Data Cabinet in the main comms room was replaced with a 21U 600mm deep unit. Cable management and correct layout of active hardware enabled an easy to use patch field being achieved. Cabinet power and earth were provided to the correct technical and safety standard. An 18U 600x600mm floor cabinet was provided in the new ICT area to service the ICT suite and the classrooms in that area of the school.

A total of 93 new RJ45 Cat5e Data Access Points were installed along with backbone cabling to link the two cabinet locations. This involved the creation of new cables routes throughout the school using high quality trunking.

All active hardware was upgraded to Cisco 3560 POE units and full network tests were performed by the client.

The solution was delivered on time to budget and was fully compliant with the Cheshire Corporate Standard.

Quote from Kathy Simms, Bursar, Leighton Primary School, Crewe:-

“PW Comms completed the installation extremely efficiently and to a high standard, their flexible approach enabled us to minimise the disruption to the running of the school”

Quote from Paul Widdrington, Director at PW Comms:-

“This project is a great example of how the latest communications technologies can be deployed to provide a fully integrated IP based communications infrastructure cost effectively.”

About PW Comms:

PW Comms are experienced in providing IT infrastructure, both to large corporations and small business. PW Comms are ISO9001 approved for the design installation and support of IT infrastructure solutions. We have built our portfolio of products and people to deliver standards-based technologies that support the transition to higher-bandwidth networking. PW Comms recognises the need for solutions that address a number of key areas including performance, manageability, productivity, speed, security, reliability, flexibility, lower costs and ease of use.

We provide a wide range of design, implementation and project management services for small to medium projects, large contracts and nationwide roll-outs. In all cases a range of high quality market-leading structured cabling systems are available, supported by incomparable service from experienced and professional teams.

By continuing to work with the best-of-breed manufacturers in all key networking technologies and disciplines, we integrate the right networking products and capabilities to deliver convergence and the tightest performance for today's business. It is true ***"Efficiency through Connectivity"***.

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