

David Young Community Academy



David Young Community Academy, (Leeds) - £1,200,000 new build 2006

Background

The David Young Community Academy opened in September 2006 and provides education for 11 to 18 year olds in the East Leeds area. It replaced two existing Leeds schools – Agnes Stewart CE High School and Braim Wood Boys' High School.

The Academy is backed by the Church of England Diocese of Ripon and Leeds, the Intercity Group and Leeds City Council.

In delivering its specialist subject – design and the built environment – the Academy works closely with Leeds College of Building and other providers of education for over 16-year-olds. In addition to the normal subjects covered by this area, students are able to pursue computer aided design, interior decorating, surveying and architecture.

European Electronique worked closely with NCC, the Academy's chosen consultants, to provide best advice and guidance on; design, planning, project management and support of the entire ICT infrastructure.

Detailed below is a brief statement relating to each of the key areas of the project.

Converged Infrastructure – Design, Implementation and Full Managed Service

Utilising Cisco's industry leading technology, the network was built around two fully resilient Cisco Catalyst 6506 chassis switches with a mixture of Cisco 3560 switching devices at the edge. The network provides fault tolerant wire speed gigabit connectivity to servers, edge switches and 802.1x authenticated users. Where required, power is provided over 3560 power over ethernet switches delivering electricity to Wireless Access Points and IP Telephones reducing the requirements for electrical cabling and sockets. The network has been designed to provide the Academy with a fully redundant infrastructure, which is easy to manage, is highly secure and will facilitate learning for many years to come.

802.1x Authentication (dynamic VLAN allocation) has been installed and configured to enable users and IP devices to dynamically access secured network services and resources from any network port. This basically means that any data socket within the building can be used for different user types,

such as Staff or Curriculum, or devices, such as Wireless Access Points and IP Telephones, without the need to re-patch or reconfigure the network.

Cisco Air Space technology is used extensively to ensure Wireless access is available throughout the whole building. This centrally controlled solution dynamically tunes the wireless environment, to make it possible for multi access point enabled Laptop trolleys to be utilised anywhere in the building. 802.1x Authentication is used to secure the wireless network, controlling wireless access to the Academy's network, applications and resources for Staff, Students and Guests.

A feature rich Cisco Call Manager IP Telephony system has been implemented providing authorised users with advanced simple to use features such as; "follow me" extension numbers; recorded announcements; conference calling and automated call distribution.

A V-Brick Ethernet TV solution captures, stores and distributes live and pre-recorded Video and TV content. The content can be displayed on Academy PCs, Laptops, PDA's, Plasma Display Screens and Interactive Whiteboards. The V-Brick solution allows the Academy's management team to stream informative messages to single or multiple plasma display screens and client devices around the Academy network.

Supply, Design and Implementation of Network Services

European Electronique delivered a complete range of network services based on Microsoft's Server 2003, Exchange, ISA and SQL technologies. An industry leading fully resilient HP DL385 Server and MSA1000 Storage infrastructure has been provided to ensure 100% availability to Academy networked services and user data stores. All services and user data stores are fully backed up, both on and off line, and archived to removable tape storage within two HP high capacity automated Ultrium Tape Libraries. All data and services are protected from Virus' by Symantec Enterprise Manager Software.

Supply and Implementation of Software Systems

European Electronique delivered a complete range of network operating systems and applications based on Microsoft's Server 2003, Exchange, ISA and SQL technologies. Sentinels Ranger Suite of Products was installed and configured to provide the Academy with Desktop Security, Remote Control, Printing Control and Management Reporting. Surf Control and Symantec Enterprise Manager were installed and configured to provide secure controlled Internet access and Anti Virus protection. Symantec Ghost was provided to allow simple PC and Laptop image creation and delivery, Veritas Backup Exec and agents were installed to allow the backup of all services and user data stores.

The Academy procured a Microsoft Schools Agreement through European Electronique to licence their all their Microsoft requirements.

European Electronique worked with the Academy and Leeds Learning Network (LLN) to ensure that access to the LLN Virtual Learning Platform (VLE/MLE) was facilitated.

Supply and Implementation of Workstations

Approximately 500 HP "business class" PCs and HP 180 "business class" notebooks have been installed, which included the consultancy, design, creation, testing and rollout of software images and the physical securing and cabling of devices into The Academy's ICT furniture

Mobile Classrooms (Laptop Storage)

European Electronique provided custom-made wireless enabled security trolleys for safe storage and recharge of Laptops. Three Wireless Access points have been integrated with each Lapsafe to enable a minimum of thirty wireless connected laptops to log on to the network in under 60 seconds.

Classroom Presentation Systems

European Electronique supplied and integrated classroom presentation systems into every classroom and breakout area, including: Smart interactive whiteboards, Sanyo projector systems and audio systems.

Video Conferencing

A Sony video conferencing unit that was supplied and installed by European Electronique to allow the Academy to leverage Video Conferencing services provided by LLN.

Project Management

European Electronique supplied, installed, configured and project managed the whole ICT installation for the Academy. European Electronique worked very closely with all stakeholders including consultants, construction, FF&E, M&E and sponsors to ensure that ICT was at the forefront of building design and operation.

Through stringent project management and management reporting by European Electronique the Academy has been delivered a 21st century ICT solution that exceeded expectations, fulfilled user requirements and met financial constraints. This entire project was delivered on time and on budget in September 2006.

Training

As a new institution, training was a particularly key element to the project. Full training has been provided to the IT staff on all aspects of the solution. This involved a mixture of manufacturer training courses and training from European Electronique training staff. In addition to this it was considered prudent to make training available to all the teaching and curriculum staff. This was provided in the form of open IT workshops, specific workshops tailored to specialist user groups and floor walking to provide live assistance in the initial weeks of the Academy opening.

