Case Study
Server Room
Critical Power Upgrade

Client: Central Law Training

Project: Business expansion leads to the engagement of Workspace Technology to manage and deploy a new Critical Power Distribution Solution.

CLT is part of the Wilmington Group which is a dynamic and expanding company. The Group specialises in high quality information products to business and professional markets. Wilmington Group has trebled in size to annual sales of £80 million since 1995.

CLT is a major specialist provider of professional training for legal, corporate, financial, property, human resource, and other professional sectors. Over 100,000 delegates attend CLT’s training programmes worldwide annually, delivers a wide range of specialist topics, with collaborations with both business and academic partners.

Client Situation
Due to the continued success and expansion of the business the number of servers and associated server room power consumption had increased to keep up with demands. The existing utility power supply reached its maximum load and was unable to cope with any further equipment deployments. In addition the server power distribution and associated commodity UPS systems were now completely unmatched to the levels of resilience demanded by the business.

CLT were looking for a company that were able to both design and deploy critical power solutions.

CLT found that local Electrical Contractors had little or no understanding of the requirements of server room critical power architecture and were unable to assist in managing the utility power upgrade which was an essential part of the overall project.

Workspace Technology offered CLT with a solution based on contemporary Network Critical Physical Infrastructure (NCPI) design techniques. In addition managing the upgrade to the utility power feed was seen as a natural extension to the project by Workspace Technology.

Workspace Technology’s expert approach differentiated itself from its competitors and its ability to offer a complete managed solution was a major contributor to its successful selection by Central Law Training.
**Scope of Installation**

Workspace Technology provided a new Power Tecnique Kasar 40Kva three phase system configured with 60 minutes extended runtime. The scope of works also included building feed upgrades, critical power distribution, and external power bypass switch equipment.

Workspace Technology also took the opportunity to provide communications cabinet rebuilds, cabinet re-alignment, and the installation of server to comms cabinet copper Cat5e I/O connections.

Workspace Technology also managed all associated civil and builders works required to provide service access into the building.

**Technical... IP communications & technology**

The existing server room had limited space and no raised floor. The rear of the cabinets was cluttered with poorly loomed incoming UTP distribution, inter-cabinet flyleads and power connections. Workspace Technology took this opportunity to install overhead wireways to create dedicated cable routes providing segregation for both low and high voltage services.

The Cat5e structured cabling was re-loomed and rerouted over a weekend. Combined with the installation of comms to server copper Cat5e I/O and repatching activities, this significantly increased the reliability of the comms to server connectivity.

**Engineering... power architecture**

Workspace Technology managed the upgrade of the utility power, building board upgrades and incoming server room power feeds. The deployment of dual 32Amp radial circuits, dual PDU's and dedicated server room critical distribution board significantly improved power reliability.

The Power Tecnique Kasar 3 UPS delivered up to 60 minutes autonomy at full load. Combined with staged shutdown configuration the new solution now enables key servers to maintain service for up to 3 hours.

**Solution Services**

Workspace Technology’s “Engage”... design, planning and deployment services delivered a complete turnkey solution for CLT. The local Utility provider proved extremely slow, and inflexible. The continued patience and persistence finally paid dividends, and ensured a successful completion of the project.

Gavin Culley CLT Operations Director commented “The Workspace Technology team were persistent and meticulous with the detail and planning of this project. The overall quality of the installation was to a very high standard and I am confident that I now have a power platform solution which easily supports the critical business operations of CLT.”

**Support**

Following commissioning Workspace Technology provided Central Law Training with a Gold 24 x 365 x 8 hour contracted and panned maintenance service plan.