



Data Centre Planning and Relocation



IT Fit Out and Relocation



IT Scheme Design & Cost Plan



Data, Telephony & Audio Visual Design



Infrastructure Planning

CASE STUDY: GRADE I LISTED COUNTRY ESTATE TECHNICAL FIT OUT

The Challenge

- Our international client was undergoing a multi-million pound refurbishment of a Grade I listed 16th century country estate in Surrey.
- The building was purchased for residential purposes and therefore the designs had to satisfy the personal tastes of the client.
- The technical brief included 16 audio visual suites, VoIP telephone system, wired and wireless network throughout the house, incoming BT broadband services and an estates office requiring networked PC services.
- The AV suites had to support both overseas and Sky HD satellite TV, two IPTV sources, a centralised audio and movie system and TV screens built within antique furniture. All systems were to be controlled using intuitive touch screen controls.
- A butler pager system for residents to call for staff assistance from any room.
- A new cabling infrastructure to support the technical services.

Feasibility, Design and Procurement

- Technology Moves Consulting (TMC) was appointed to develop a fully coordinated technology scheme and to manage the implementation of the technology services from procurement through to deployment and go live.
- TMC completed a feasibility study of the building to generate a high level approach for integrating new technology services into a building of this nature.
- TMC worked with the architect and other specialist consultants to develop a scheme that delivered the IT services in a manner that complemented the elaborate interior designs.
- TMC managed the tender of all of the voice/data, audio visual and cabling services in order to ensure that the chosen contractors were suitable for this high end residential fit out and that prices were at best value to the client.

Technical Fit Out and Go Live

- TMC attended fortnightly project design meetings throughout the 18 month fit out project to manage the ongoing technical installations and to ensure that any scheme changes were coordinated with the technology designs.
 - The new cabling infrastructure was deployed according to TMC cabling designs that included room port locations and IT cabinet patch plans.
 - The audio visual and voice/data contractors worked under the supervision of the TMC Project Manager to ensure that the services were deployed according to the building fit out programme.
 - TMC managed the deployment of new broadband services that included organising for 1km of new fibre cabling to be installed, coming from outside of the estate grounds into the house and terminating in the IT equipment room.
 - TMC managed an extensive testing and sign off process to ensure all services were robustly checked prior to occupation by the client. This included the delivery of training and support documentation from each subcontractor and a staff training programme with user guide material.
 - Having tracked all technical spend throughout the project TMC produced an operational technology budget to assist the estates staff with operational cost management.
 - After completion the client requested a number of enhancements to the original building plans and technical services which TMC coordinated and delivered.
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The Results

- An advanced AV solution offering Sky HD, overseas satellite and IPTV video services, centralised audio, Kaleidescape video all controlled using bespoke Crestron touch panels.
- A fully Cisco networked building with both wired and wireless coverage in all rooms which provides continuity of wireless coverage, allowing users to roam throughout the house making wireless calls without interruption of service.
- A Cisco phone system using 35 fixed and 12 wireless Cisco IP phones.
- A push button butler call system for each room that notifies a staff pager with room location.
- Upgraded broadband and ISDN telephone circuits to support the new building infrastructure.
- An upgraded Estates office with Cisco phones, networked PCs and printing services running over a fast and reliable network.
- Full operational documentation including O&M, training material, and budget plans.