



Teledata

Case Study



About

Teledata is Manchester's only independently-owned data centre. Founded in 2007, Teledata is a premium Data Centre operator providing Colocation, Cloud Hosting and Data Centre Services to their clients from their Tier III Data Centre facility based in Wythenshawe.

The Brief

Teledata have experienced a reported growth of nearly 30% during the start of 2020. The demand for Colocation server space has grown and as a result, they saw their capacity nearing a critical point. Teledata were looking to invest £2million into a state of the art 7,000 square foot Data Centre with optimal advance technology to ensure maximum efficiency for their clients.

Teledata engaged with Sudlows to Design and Build their new facility to accommodate the proposed IT equipment for their customers and aid their continued growth.



The Project

Working collaboratively and closely with Teledata and the end user during the design stage, Sudlows' Data Centre Design Team carried out meticulous space planning, taking into consideration the unique floor plate and structural obstructions that had to be overcome to accommodate the containment for the racks along with both the mechanical and electrical equipment required for the operation of the facility.

A CFD (Computational Fluid Dynamics) model was created by our in-house CFD Team to ensure that the proposed cooling would provide adequate circulation throughout the space. Specifically, in the event of cooling system failure, to ensure the SLA environment conditions were maintained during operation.

This particular project had its challenges during the design, and construction stages. Height restrictions within the Data Hall meant that careful consideration and planning were required to ensure there were no clashes between electrical and mechanical equipment, and that sufficient space was available for installation of data cabling between the proposed racks.

Following the construction of the room build by Teledata, the space was handed over to the Sudlows Delivery Team to fit out the Data Hall, LV Switch Room and Circulation Space. All external first fix mechanical and electrical services were installed via access equipment located in an unconventional location required for the installation of the high level pipework and ventilation systems. The condensers were then installed to the external roof space whilst the internal fit out progressed.

The building was constructed in the early 1970s, and typical of a building of this age, access to the whitespace was restricted. This brought its challenges with regards to the positioning of various M&E plant into the space. This was overcome by opening up a section of the buildings elevation to one of the wings to allow the plant to be lifted into the building using their own bespoke lifting platforms. Such a success was the lifting process that the End User requested us to repeat the exercise to position their racks into the new whitespace.

Regular meetings took place with both the Teledata Team and the End Users to review design, H&S and programme and to ensure that their requirements were being delivered to the specification and standard expected.

Testing and Commissioning of the various electrical and mechanical systems took place with SATs being undertaken, and then using Sudlows A-LIST load banks, tested to prove the M&E infrastructure. Various integrated systems testing was also carried out to check and prove the interactions of the various systems.

The Conclusion

The project was handed over on time and to budget to the customer with the end user accepting the facility from Teledata in readiness for them going live.

It was a pleasure working with the various stakeholders from Teledata on this project who assisted in making quick decisions when required to, ensuring the project timescales were achieved. This demonstrates that when clients work closely with the Design and Build Specialist, it helps make the project a success.

Testimonial

Matt Edgely, Director at Teledata commented;

“Sudlows have been a pleasure to work with. Not only have they been flexible and responsive, but their project management took a huge amount of stress out of delivering a bespoke customer requirement. There will always be unexpected issues in a build like this, but it's how the issues are resolved that's important. The approach and expertise Sudlows bring ensured timely resolution every time, resulting in delivery on time and on budget.”