



Projects Case Study

Client	Hybrid Air Vehicles
Location	Amphill Road, Bedford
Specification	Communications cabinet and supporting infrastructure
Solution	Redesigned and refreshed Communications Cabinets with associated and supporting Cat5 wired infrastructure.
Client's View	Due to company growth and expansion, Hybrid Air Vehicles needed their new offices to be fitted out with a server and the network infrastructure to suit

The Client

Hybrid Air Vehicles exists to design and manufacture the world's most innovative, practical and commercially useful hybrid aircraft – the Airlander. Hybrid Air Vehicles is the continuation of 40 years of innovation and investment in lighter-than-air design, and can boast of numerous “firsts” in its history.

Hybrid Air Vehicles has created a new mode of air transport that offers major improvements in safety, operating costs, environmental impact and operational flexibility. The result is the Airlander – the world's largest aircraft and a revolution in aviation capability.

They start with CAD designs, make small scale demonstrators and then do further wind tunnel and computational fluid dynamic testing to ensure they have the optimal designs. Then the construction of the Airlanders, using the very latest materials available, can begin.

Objectives

Hybrid Air Vehicles were expanding which indicated a need to relocate. Hybrid Air Vehicles therefore moved from their existing site at the Cardington Hangars in Bedford to their new offices in Amphill Road, Bedford. The new office needed to be re-cabled to support a more forward thinking and future proof cabling platform. There was a short lead time which necessitated a quick turnaround on any quotes received and the resultant work.

Two new Communications Cabinets also needed to be designed and implemented to provide both initial and expected port density requirements in line with the a re-designed network infrastructure.



The Solution

DWM were required to establish 2 new communications cabinets within the main server room, located on the third floor. This is to provide capacity for the existing server, switching hardware and new/existing data cabling. The new communications cabinets provide suitable housing for the proposed new and existing Cat5e master end presentation, fibre, voice, management & switching.

The design team at DWM laid out our services within the designated space in accordance to the clients preference. The engineering teams then put this into action with a variety of accessories to support the installation. The server room was designed to be accessible and easy to use.

A new communications cab was essential to the new office as this acted as the portal and hub of all IP communication – integral to an ever growing organization which relied massively on quick data access.

CAT6a cabling was installed throughout, which provided the most future proof wired infrastructure platform, able to provide increased PoE supply for new technologies and providing high bandwidth capacity.

Looking Forward

Due to the robust communications cabinet that DWM installed, Hybrid Air now have a future proof wired infrastructure platform which is able to provide accessibility for any up and coming technologies.

The high bandwidth of the solution ensures that any new technologies that are integrated can be added to the platform with ease.

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