Case Study
An Aviation Group

Customer	An Aviation Group
Location	Middlesex
Requirements	Upgrade existing infrastructure
Equipment	Excel Category 6 Cable, Excel Singlemode Fibre, Excel Cabinets
Customer's View	"We needed to install a reliable, trustworthy solution that would offer our client a future proofed system. The Excel Category 6 system that we installed allowed us to provide a faster, more reliable network able to cope with today's ever increasing demands. Our Excel Partner Status also meant that we were able to offer a 25 year warranty as standard on the work that was carried out." *Gregg Pike, Director, Switchnet Systems*

excel
without compromise.

The Aviation Group operates in five business segments, each dedicated to a high quality of standards. The five units are passenger airline business, logistics, MRO, catering and IT services and they all play a leading role in the industry in which they operate.
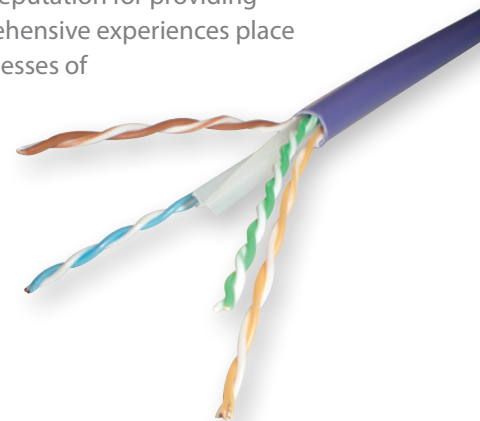
As a major aviation company, infrastructure plays a vital role in ensuring the day to day activity of the company can maintain its high standards. Currently having Cat5e cabling at the core of its systems, The Aviation Group required an upgrade to ensure continued operability and a future proofed system that would be reliable for many years to come.

To get their new reliable infrastructure, The Aviation Group needed a reliable partner to perform the installation. They chose to work with Switchnet Systems.

Established in 1996, Switchnet Systems Ltd is a leading networking services integrator specialising in the development and support of networking infrastructures. Over the years the company has built up an enviable reputation for providing innovative, cost effective networking solutions and support services. Their ability and comprehensive experiences place them in a unique position to design, install, support and maintain network solutions for businesses of every size and sector across the UK.

The first thing for Switchnet to do was to investigate what was currently in place. The Aviation Group had a variety of 7 different cabinets spread across the site. They were also incredibly reliant upon their existing systems, so downtime to upgrade the cabling had to be kept to an absolute minimum.

Evaluating the project, Switchnet recommended that the Excel structured cabling system was used. Excel is a world-class premium performance end-to-end infrastructure solution. The products are designed, manufactured, supported and delivered without compromise. With an emphasis on compatibility and standards compliance, reliability and product availability, Excel is the complete trusted solution.

As the system was to be upgraded, Excel Category 6 cable, modules and patch panels were the ideal choice, and this was used along with Singlemode Fibre cable and Excel cabinets.

Excel Category 6 offers improved transmission performance because of its larger bandwidth capabilities. With its improvements also comes increased reliability, helping to future proof the infrastructure.

As the work was being completed, a great deal of it had to be done at a high level, utilising an access lifter. This meant it was far more problematic than normal. In addition to this, due to the nature of the business, extreme caution was required throughout the installation.

Switchnet was not able to touch the existing Cat5e cable, and it had to remain connected throughout, until a suitable time could be agreed to change over to the new Category 6 network. This meant a high level of planning had to be put in place.
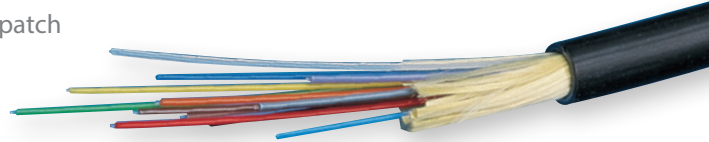
Despite the difficulties, the installation was a huge success and Switchnet was able to provide a much improved network. As part of the project they also redesigned the layout of the cable and reduced the number of cabinets needed from seven down to just five. This not only reduced the hardware costs, but it will also make the infrastructure management far easier in the future.

All the required data points are now installed back to the nearest comms cabinet and all comms cabinets are connected back to the main comms room via an 8 core 10GB Singlemode Fibre connection.

The new infrastructure is now providing faster and more reliable speeds across the network and helps the company deal with the increasing bandwidth requirements of phones, cameras and large graphic files.

A further major benefit experienced is the future security of the network. As Switchnet is an Excel Cabling Partner, the company can provide a 25 year warranty on Excel products, giving peace of mind well into the future.

The Aviation Group has seen much improved bandwidth rates. Switchnet helped improve the set up of the infrastructure costing less whilst providing a 25 year warranty.

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