

Case Study

Four Seasons Hotel Resort

Customer	Four Seasons Hotel Resort
Location	Dubai
Requirements	New infrastructure solution
Equipment	Excel Category 6 cable and Fibre optic cable & accessories

Customer's View

"The objective of the hotel consultant and the developer was to have a converged infrastructure system capable of providing the functionality for all systems and facilities including the data, CCTV, and wireless network throughout the resort. Based on an Excel solution Omnix designed and installed the infrastructure following best practice by our Excel certified engineers. Omnix was able to carry out a smooth installation utilising a selection of products from the Excel range."

Asef A. Sleiman, General Manager, Omnix

excel
without compromise.

Set on a pristine, natural beach, the Four Seasons Resort Dubai at Jumeirah Beach blends Arabic design with cool, contemporary style creating an atmosphere of light, sophisticated luxury. The hotel offers 237 ultra-spacious rooms which include 49 suites, which offer views of the Arabian Gulf on one side and Burj Khalifa and the downtown skyline on the other.

This 5-star Dubai hotel is home to 10 restaurants and lounges, one of the city's most lavish spas, three swimming pools and fun family activities. With a warm, comfortable attitude and legendary personalised service, Four Seasons is redefining the Dubai luxury hotel experience.



The Requirement

With the hotel resort being a completely new build, careful consideration needed to be taken as to what infrastructure was selected at the project planning stage. The solution selected needed to be capable of hosting a CCTV system as well as provide the foundations for a wireless network. Choosing the right cabling infrastructure solution for a new build is critical. It no longer provides just the connectivity for an IT system, it is the foundation of a modern building management system (BMS) Making the right choice creates a future proof, high performance, flexible platform from which a business can gain efficiency and cost benefits.

Sourcing a Partner

The hotel worked closely with Omnix International who oversaw the project and completed the installation.

Omnix was founded in 1987 with the core objective to provide public and private sectors across MENA region with best-in-class IT, Professional Audio Visual and Enterprise Software Solutions. It was among the first companies in the UAE to offer these services.

Today, Omnix employs over 1,000 professionals with offices in Dubai (HQ), Abu Dhabi, Saudi Arabia (Riyadh, Dammam), Qatar, Kuwait, Oman and Jordan.

Omnix positioned the Excel structured cabling solution, having worked with Excel products on numerous occasions and also being a recognised ECP (Excel Cabling Partner).

Case Study - Four Seasons Hotel Resort

The Right Product

The Excel infrastructure solution is distributed by Mayflex. Mayflex is a distributor of Converged IP Solutions with headquarters in the UK, offices in London and a sales and distribution centre based in Dubai. Mayflex provides a product portfolio which incorporates infrastructure, networking and security brands to provide a complete solution for the widest range of projects.

Excel structured cabling products constitute an end-to-end solution where performance and ease of Installation are pre-requisites. With an emphasis on compatibility and standards compliance 'from Cable to cabinet', reliability and product availability, Excel is the complete trusted solution.

When a system is installed by an Excel Cabling Partner a 25 year warranty can be awarded. The Excel warranty provides a 25 year product and applications assurance of compliance with industry performance standards appropriate to the class of cabling being installed. It covers copper, fibre, voice and even the Environ range of racks.

Design and Installation

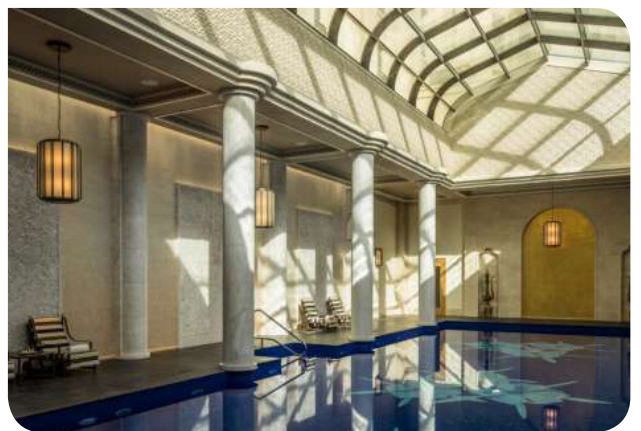
The main comms room is connected with all internal IDF's that are linked with Multimode OM3. All external IDF's are connected with Singlemode OS2 fibre optic cable.

The use of fibre gave some significant benefits in completing the job. The fibre was deployed to link the racks together, negating any issues with runs that would have been over length for a traditional copper link. Fibre optics allow for large amounts of bandwidth to be transmitted, so it was the ideal choice for the backbone.

Fibre provides an extremely reliable backbone for data transmission back to the core, whilst also being immune to lots of interference, therefore with the cabling running close and next to other services within the building, such as elevator motors in risers, there are no issues with the data transfer.

All IT outlets are connected to the IDF's through Category 6 cable. Excel Category 6 UTP cable is designed for optimal support of High-Speed data protocols delivering 1 Gbps performance to the workstation. Designed to be quick and easy to install the cable requires no specialist installation tools and is supplied in reelex packaging for fast, snag free installation. The inclusion of a polyethylene cross filler ensures optimum cross talk performance.

One of the challenges faced during the project which took place from 2012-2015 was the clients preference to install CCTV cameras and wireless access points without the use of faceplates and patch cords for aesthetic reasons, throughout the hotel. This provided a challenge for Omnix, who worked closely with the Mayflex UK based technical team to confirm that the chosen solution would still meet all of the necessary requirements to obtain a 25 year warranty. The solution offered was to utilise RJ45 plugs, directly terminating the horizontal Category 6 cable into them.



Case Study - Four Seasons Hotel Resort

The Result

The hotel provides a luxurious destination for visitors and offers all of the amenities that are expected in such an establishment. Guests have access to wireless internet facilities wherever they go in the hotel and can rest safe knowing that a highly sophisticated IP CCTV system is in operation throughout the resort, all running effectively via the Excel infrastructure solution installed by Omnix.



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