



Case Study/The Millennium Airport Hotel

Converged IP Solutions.



- + **Customer** The Millennium Airport Hotel
- + **Location** Garhoud, Dubai
- + **Requirement** A new security system
- + **Equipment** Excel Category 6 cabling, MOBOTIX cameras and Overland Storage

“The existing security cameras installed in the hotel did not provide us with the quality of images that we required as necessary to investigate any incidents that took place at the hotel or surrounding grounds.

In addition new minimum standard regulations for the security of hotels has been implemented in Dubai by the DPS (Dubai Protective Systems) a division of Dubai Police.

With this in mind the MOBOTIX solution and range of cameras installed have allowed us to generate much higher quality images helping us to identify possible issues and get to the bottom of any incidents quickly and with the desired result ”

Oliver Morris, Millennium Hotels

The Middle East's Millennium Airport Hotel, winner of the World Travel Awards 2015, is at the centre of Dubai's cultural scene. The location near the Dubai International Airport makes exploring the city simple and allows guests to enjoy easy access to major central business and historic districts (Bastakiya and Sheikh Saeed Al Maktoum Heritage House), tourist spots (Gold Souk), shopping centres, and entertainment hub.

The hotel combines elements of tradition with contemporary styling to create a luxurious ambience. The 341 guest rooms combine comfort and style with every room featuring outstanding luxury amenities. The hotel also boasts the Oasis pool, a 24-hour-fitness centre, restaurants and bars and a Business Centre with conference facilities.

The Requirement.

There was an existing worldwide agreement in place for the hotel's current security cameras which specified the brand of camera installed in its premises. The cameras were all analogue based and situated at various points around the entire hotel grounds. There had been a number of cases where poor image quality had prevented recorded incidents being successfully resolved. Therefore the hotel management team decided to introduce a more sophisticated camera system to help increase security. It was decided that a hi-resolution IP CCTV system would be able to provide the level of image quality desired.

Sourcing a Partner.

The hotel management team identified the products they wanted through a head to head proof of concept showcase from various leading manufacturers, once the winning product was decided on the hotel with its security team identified the most competent integration partner to achieve their goal.

The company chosen was Redcube Systems LLC who carried out the project which was managed by Mr Suresh Balan from start to finish.

Redcube Systems LLC originated under Tamimi Engineering in 1997. The company provide independent handling and managing of all I.T and ELV systems related projects through a group of qualified and experienced experts.

Suresh Balan headed up the projects implementation division with a hands on dedication to provide the fastest and most professional project delivery in the market.

The Right Product.

The hotel had already determined that they needed to introduce a hi-resolution IP CCTV system; they just needed guidance to decide which complimentary brands to work with for the storage devices needed and cabling infrastructure required to provide the backbone for the entire system.

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Redcube Systems had an established relationship and worked closely with Mayflex, a distributor of Converged IP Solutions 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.

After working with the Mayflex and MOBOTIX team to pull together the best suited solution Redcube Systems had a system to offer the Millennium Airport Hotel which consisted of a variety of MOBOTIX cameras including the D25M, M15D and M25, Overland SnapServer XSR's 120 storage devices with Excel Category 6 cabling infrastructure underpinning the system.

MOBOTIX AG is a German software company with in-house hardware development for digital, high-resolution and network-based video security solutions. They are known as the leading pioneer in network camera technology since the company was founded in 1999. High-resolution images deliver more detail which means less cameras, which in turn lowers costs and increases ROI.

Overland SnapServer XSR models are the first data storage system that integrates DynamicRAID, a standards-based technology that gives the ability to automatically expand storage pools and storage volumes independently. DynamicRAID provides the user with the flexibility needed to manage storage infrastructure without manual intervention, allowing for an increase in requirements without interruption.

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 reel packaging for fast, snag free installation. To reduce wastage each cable is numbered from 305metre to 1 metre, allowing quick and easy calculation of the cable remaining in the box. The inclusion of a polyethylene cross filler ensures optimum cross talk performance.



Design and Installation.

The CCTV was installed across three wings within the hotel. Areas to be covered included the hotel lobby, cash desks, restaurants, bars, entry exit points, valet parking, corridors and a number of external areas including the basement parking facility and hotel perimeter.

A total of 386 MOBOTIX cameras were installed in a number of locations around the hotel with 31 days of storage on a total of 12 Overland SnapServer XSR boxes.

The MOBOTIX cameras included the D25M, a dome camera with interchangeable lenses, a robust, low-maintenance and weatherproof device with no moving parts (IP65). The M25M is a discreet camera that records up to 30 HiRes images per second with excellent image quality even under poor illumination it comes fully equipped with IP66-certified housing and automatic fail over internal storage on a MicroSD card. Finally the M15D is a modular system combined day/night camera for 24-hour use.

One important feature that determines the quality of a security camera is its light sensitivity. A highly light-sensitive camera supports short exposure times, thus resulting in reduced motion blurring.

A combination of 3MP and 5MP cameras were used depending on locations and information needed.

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

One other factor that had to be considered for this project was compliance with Dubai Police regulations which specify where CCTV cameras need to be deployed and the length of time footage needs to be retained, amongst other things. This all had to be built into the system design when Redcube pulled the project proposal together for the hotel.

The Result.

With the new IP CCTV solution installed, the Millennium Airport Hotel is now able to provide high clarity images when investigating any incidents captured in and around its premises.

All of the cameras are monitored via 21 monitors situated in a control room managed by the hotel security team allowing them to identify any issues quickly and easily.

The cost of maintaining and running this new system has been significantly reduced due to the lower number of cameras needed to cover the same areas as the old system once did. Also with the Overland storage devices offering the capacity for expansion as and when required, the system will be able to scale up as and when needed.



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