

CASE STUDY

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Regents Emirates Pearl Hotel Selects Chatsworth Products to Accommodate the Technological Needs of its Luxurious Space

The Regents Emirates Pearl Hotel is anticipated to be recognized for its modern design, class and comfort. Located in the beach promenade, a premium location in the center of Abu Dhabi, the spiraling tower is a site to see. The hotel is built among the finest high-class resorts, including the internationally renowned Emirates Palace Hotel.

The Emirates Pearl Hotel includes 368 rooms and suites, 15 meetings rooms, 12 food and beverage outlets, a spa and wellness center, as well as a private beach and helicopter pad.

To compete with the top hotels in the hospitality industry, Emirates Pearl Hotel teamed up with Atlas Telecom, a consulting and engineering firm, distributor, MultiNet Communications, and Chatsworth Products (CPI) to design and install a state-of-the-art data center to accommodate the technological needs of such a luxurious space.



“ The aim was to provide and design a solution that could bring energy efficiency and at the same time, protect our investment for 10-15 years. Therefore, future scalability was also important to us. ”
Nabeel Siddiqi, Project Manager for Atlas Telecom



A sky view of the luxurious Regents Emirates Pearl Hotel. Rendering by miss3, and design by Söhne&Partner architects in cooperation with DL architect.

Planning

Emirates Pearl Hotel was very interested in a green, energy efficient data center to coincide with the architectural design and sophistication.

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With Atlas Telecom's and Emirates Pearl Hotel's goals in mind, MultiNet highly recommended CPI Cabinets with Vertical Exhaust Ducts, which have revolutionized the cooling concept in the data center. However, due to height limitations, a different approach had to be taken to maximize cooling efficiency.

CPI Passive Cooling® Solutions were chosen to allow cooling efficiencies in the data center to be maximized without the need for additional CRAC units, in-row air conditioners or liquid cooling solutions. This "free cooling" is achieved by properly isolating, redirecting and recycling hot exhaust air from cold supply air.

Emirates Pearl Hotel was interested in the ability to support up to four times higher heat loads and power densities, eliminate hot spots and improve cooling efficiency by up to three times, so it ordered a comprehensive, energy efficient solution from CPI.

Solution

In June 2014, MultiNet provided Emirates Pearl Hotel with CPI's Cabinet Supported Cold Aisle Containment (CAC) Solution, complete with doors and floor ceiling kits.

"We looked at all types of aisle containment but found CPI's Cold Aisle Containment favorable," said Siddiqi.

CPI's CAC Solution isolates a room's cold air supply and confines it to an entirely closed off area targeted at cooling IT equipment instead of the room. With the fronts of cabinets facing each other as they would in a typical cold aisle design, the addition of CPI's doors on each end of the aisle and ceiling panels across those adjacent cabinet rows creates a complete segregation of hot and cold air.

“ We looked at all types of aisle containment but found CPI's Cold Aisle Containment favorable. ”

Nabeel Siddiqi, Project Manager for Atlas Telecom

The CAC Solution will consist of two rows of 20 GF-Series GlobalFrame® Cabinet Systems. Each will feature an Air Dam Kit for the Cisco switches, as well as KoldLok® Two-Post Grommets, which seal the base of two-post racks to prevent by-pass airflow, as well as contamination from air impurities, two major concerns in data center cooling.

CPI's CAC Solution, cabinets and accessories were ordered in Glacier White. "White was a good choice—it provided power and energy savings with the lighting," stated Siddiqi. "The data center looks much brighter than we imagined."

CPI's enclosure products will be housing and protecting HP Servers, HP core switches, Cisco core switches, Corning fiber and copper rack inter-connectivity systems.

Additionally, CPI's single- and three-phase Monitored Vertical Power Distribution Units (PDUs) will be included in the data center. The PDUs include an Ethernet port, which allows network-based monitoring of current use, temperature and humidity using a web browser.



GF-Series GlobalFrame® Gen 2 Cabinet System

“ CPI’s PDUs enabled us to link 20 PDUs to a single IP address, which reduced our spending due to lesser ports and IP addresses required. ”

Nabeel Siddiqi, Project Manager for Atlas Telecom

Siddiqi stated, “We also wanted the ability to link more than one PDU to the same IP address. CPI’s PDUs enabled us to link 20 PDUs to a single IP address, which reduced our spending due to lesser ports and IP addresses required.”

CPI’s RIM-600, a Remote Infrastructure Management System, with temperature, humidity, smoke and water-detection sensors will monitor the equipment and provide alarms to prevent damage or downtime.

Results

Emirates Pearl Hotel discussed several options with Atlas Telecom before concluding that CPI products provided the best solutions for the hotel’s needs and energy efficiency expectations.

“We were looking for a trustworthy partner, and we found that in CPI and MultiNet,” stated Siddiqi.

“It was really easy for the customer [Emirates Pearl Hotel] to evaluate the products and solutions offered in the market but working with CPI’s products



Sundeeep Raina, CPI Area Sales Director for the Middle East and Mohamed Jeelani, Managing Director for MultiNet.

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at an early stage, gave a better edge in the decision process,” said Mohamed Jeelani, Managing Director for MultiNet. “CPI is well known in providing data center solutions.”

The data center at Emirates Pearl Hotel is still under construction. Once construction is complete, CPI’s solutions will have helped the hotel to be technologically prepared to serve its guests with world-class flair. 

About Chatsworth Products

Chatsworth Products (CPI) is a global manufacturer providing voice, data and security products and service solutions that optimize, store and secure technology equipment. CPI Products offer innovation, configurability, quality and value with a breadth of integrated system components, covering virtually all physical layer needs. Unequaled customer service and technical support, as well as a global network of industry-leading distributors, assures customers that CPI is dedicated to delivering products and services designed to meet their needs. Headquartered in the US, CPI operates global offices within the US, Mexico, Canada, China, the Middle East and the United Kingdom. CPI’s manufacturing facilities are located in the US, Asia and Europe.

CPI is listed with the General Services Administration (GSA) under Federal Supply Schedule IT 70. Products are also available through GSA Advantage and through Government Wide Acquisition Contracts (GWACs), including GSA Connections and NITAAC-ECS III. (www.chatsworth.com/gov)

MultiNet Communications is your source for fiber optic cables & accessories, structured cabling solutions, enclosures and data centre cabling. MultiNet Communications is your source for fiber optic cables & accessories, structured cabling solutions, enclosures and data centre cabling. (www.multinetfze.com)