

Hilton Pyramids Golf Resort Cairo, Egypt

Electra Control Inc./Automated Logic Corporation



WebCTRL® Checks Into Luxury Resort

The Challenge

- Provide control automation and energy-saving strategies throughout facility
- Incorporate latest web technologies into design
- Install scalable system for planned resort expansion

The Players

It's an oasis in the heart of the Arabian Desert. The Hilton Pyramids Golf Resort, located just two miles from the ancient Pyramids of Giza on a beautifully landscaped 20-acre setting, features luxury, five-star accommodations and an 18-hole championship golf course. The facility includes 230 guest rooms, ballroom, meeting rooms, restaurants, offices and utility areas. A second hotel, a theme park and shopping mall are scheduled to open by 2007.

While planning the resort, project managers and engineers conducted an extensive analysis of current building control technologies. They determined that the hotel would be best served

by a scalable system, with native BACnet® communications and full-featured web interface, capable of providing verifiable energy savings. Their analysis concluded that Automated Logic®'s WebCTRL exceeded all other systems in its use of native BACnet technologies, at every operational level, and that it incorporated the most advanced web standards. Electra Control Inc., Automated Logic's local dealer, was selected over several competitors. Support was provided by ALC's regional office in Dubai, U.A.E.

The Solution

The WebCTRL installation is indeed comprehensive. It controls the entire HVAC system, from guest rooms (outfitted with Logistat Pro® sensors with fan speed controls) to the 1300TR Carrier chiller plant; lighting systems; electrical power distribution panels; water pumps; fire-fighting pumps; and stand-by generator. And the savings? With the integration of Automated Logic's energy-saving technologies, including trim-and-respond and setpoint optimization, resort operators are saving more than \$5,000 (U.S.) each month in energy and manpower costs.



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Project Summary

Location:	Cairo, Egypt
Project Type:	New installation
Building Size:	88,000 sq.meters 947,224 sq. feet
Building Usage:	Business/group meetings, tourism
Objectives:	Provide control automation and energy-saving strategies throughout facility
Design Considerations:	Web-based, open standards including third-party integration; scalable with resort expansion
Major Decision Drivers:	WebCTRL's comprehensive use of native BACnet communications and integration with latest web technologies
HVAC Controls:	Automated Logic WebCTRL
Installation Date:	2002
Controls Contractor:	Electra Control Inc. (with assistance from ALC regional office in Dubai, U.A.E.)



Mr. Edwin Figueroa
Director of Operations and Engineering
Hilton Hotels Corporation World Headquarters
9336 Civic Center Drive
Beverly Hills, CA 90210

Dear Mr. Figueroa,

I was given to understand that you are considering Automated Logic's WebCTRL Building Automation System for some of your facilities.

As a Chief Engineer of Hilton Pyramids Golf Resort here in Cairo (Egypt), I thought you might like to hear my experience with this system, as well as my opinion of Automated Logic (ALC) as a company.

WebCTRL has been installed through out our facility, and it controls the entire HVAC system right from guest rooms to the chiller plant, the lighting system of all hotel areas, the electrical power distribution panels, water pumps, fire fighting pumps and stand by generator.

The hotel consists of 230 guestrooms, 700 PAX ballroom, 120 PAX meeting room, many F&B outlets and several administrative and utility areas served by a plant of 3 x 440 TR Carrier chillers. All guest rooms have fan-coils that are controlled by ALC's smart room sensors known as Logistat-Pro which comes with fan-speed control option. The Chiller plant is integrated to the BAS via Carrier's Dataport-I plant controller.

The front end is a WebCTRL-Pro application program that uses client-server technology and a JAVA core. This makes it possible for several client workstations on our network to access the BAS merely through a web-browser!

The entire system was commissioned by ALC's local representative Electra Control Inc., with utmost professionalism and with active support from ALC regional office in Dubai.

The highlight of this installation is the fact that we achieved energy saving to the tune of US\$5,000 per month on our electricity bill in addition to the monthly saving of man power due to the automatic operation of all hotel systems which reflected directly and positively on the hotel GOP. Thanks to their fine programming logic created by ALC's extremely user friendly Eikon software.

I have no hesitation in recommending WebCTRL as a product, and Automated Logic as a manufacturer, to any facility manager. As a Hilton staff member, I am convinced that ALC's attitude and approach to doing business will be in line with the expectations of Hilton standards.

Sincerely,

Sabry Balboul
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Sabry Balboul, one of the leading facility managers in Egypt, has been associated with the hospitality industry for several decades. An active member of ASHRAE as well as the Association of Energy Engineers, he has used a number of BAS products throughout his career and is constantly exploring cost-saving strategies to add to his facility's bottom line.



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