

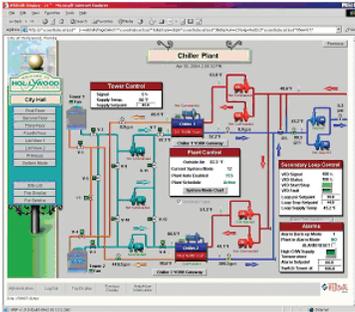




*With Alerton's BACtalk solution in place, I have reliable, web-based access to all of our buildings with excellent local support through ESSI.*

*William Vulpis, Facilities Maintenance Operations Manager,  
City of Hollywood, Florida*

CITY OF HOLLYWOOD, FLORIDA ■ CASE STUDY



*Open protocol-based BACtalk easily integrates third-party equipment so you can cost effectively assemble the best possible solution.*

monitoring and control with remote access. To date, the ongoing City of Hollywood project includes BACtalk and WEBtalk™ servers, global controllers, variable air volume (VAV) box controllers, variable frequency drive and constant volume air handling units, fan-coil units, fresh air pre-cooling units, chillers, pumps, cooling tower fans and split system DX air handlers.

integrated via BACnet protocol—pumps, cooling towers, multiple flow stations and automatic isolation valves for the chiller plant operation.

The City next brought online Fire Station 74, the brand new headquarters for the Hollywood Fire Department. This site added a BACtalk workstation, a BACtalk laptop, a global controller and multiple field controllers to control air handling units, a chiller and VAV boxes.

The City refitted the Hollywood Beach Community Center with a new cooling tower. ESSI, the South-Florida Alerton dealer, upgraded the tower fan with a variable frequency drive, field controller and Microset sensor for setpoint control. Now, instead of running full blast 24/7, the cooling tower operates at the minimum necessary speed, which saves the City enormous costs and energy.

After the controls system for the first building was in place, facilities staff underwent comprehensive training to ensure they felt comfortable and confident using it. The City next upgraded each of City Hall's mechanical systems beginning with the installation of BACtalk global controllers. Field controllers oversee air and fan-coil units, chillers, cooling towers and VAV boxes. Once established, the City Hall building controls integrated seamlessly with the existing Public Works system, communicating over the City's wide area network (WAN).

A second renovation of City Hall increased the indoor air quality and upgraded more aging mechanical systems. Alerton's next generation controllers added processing power and speed to improve system performance. ESSI converted constant volume mechanical systems to VAV systems for more localized comfort control. Additional field controllers manage fresh air pre-cooling units and VAV controllers.

The City then renovated Police Department Headquarters by installing a BACtalk system. A BACtalk global controller and field controllers manage fan-coil units, face-and-bypass air handlers, pumps and an air-cooled chiller. Adding the Police Department's system to the City's WAN was as simple as plugging in the global controller to the nearest network switch.

To minimize impact to tenants and employees, the buildings had to remain open for business while the installations took place. ESSI technicians and engineers worked during off hours and weekends to complete the project.

The next project upgraded the City's wide area network (WAN) routing structure to an IP-based network using ASHRAE's new standard, Annex J BACnet/IP. The BACtalk server was centralized to the City's data center and more workstations were added. New laptop workstations and an Alerton WEBtalk server enable the City's facilities staff to monitor and adjust setpoints from anywhere.

Most recently, ESSI overhauled air conditioning system controls in the Martin Luther King Jr. Recreation Center. A new global controller and field controllers control split system DX air handlers and maintain humidity levels in its wood-floored basketball court and gymnasium.

A revisit to City Hall replaced two older chillers with one new chiller. Engineers upgraded controls with a plant-dedicated global controller and field controllers that featured YORK chillers—

The City of Hollywood continues to upgrade its existing buildings with Alerton BACnet solutions that first took root at a simple beta site. In five years, building controls in five major City of Hollywood sites were updated and brought online. From a workstation or laptop, the operations manager can monitor and adjust setpoints at multiple sites around the city. From their offices, facilities staff can easily troubleshoot issues as a team before heading out to the location, saving the City valuable time and money.

