
CASE STUDY: MEDICAL FACILITY INTEGRATION

Legacy York Chillers Integrated with Modern Delta BAS

Integrator: ENTEC Services, Inc.

Technology Used: S4 Open: BACnet-N2 Router, York Chillers, Delta Controls BACnet Operator Workstation

Location: Illinois, USA

ABOUT THE CUSTOMER

OSF Saint Francis Medical Center, licensed for 616 beds and with a medical staff of more than 800 physicians, is the fourth largest medical center in the state of Illinois. As major teaching affiliate of the University of Illinois College of Medicine at Peoria, Saint Francis Medical Center is able to provide tertiary services that are not available anywhere else in the region. OSF Saint Francis offers the most comprehensive and skilled team in downstate Illinois for brain and spine diseases, disorders, and injuries. More than 30 neuroscience physicians excel in over 40 neurological specialties, such as diagnosis and treatment of stroke, aneurysm and AVM disease, epilepsy, spine disorders, neuromuscular and Parkinson's disease.



OSF Saint Francis Heart Hospital provides comprehensive, state-of-the-art services—from diagnostic testing to cardiovascular interventions and surgery.

ABOUT THE PROJECT



The facility owner approached ENTEC Services and asked them to integrate an existing York chiller with the Delta Controls BAS. The York chiller was communicating York Talk through a JCI Metasys® Integrator (MIG) to the N2 bus. ENTEC Services initially contacted JCI to purchase a gateway that would bring York Talk to BACnet, but after several months, they were told that the device would not work due to the chiller's age. Luckily, when forced to find a different integration solution for an aging piece of equipment, ENTEC Services found the S4 Open products. After contacting the S4 Group, ENTEC Services was confident that the S4 Open product could provide the gateway that would satisfy the owner's requests.

The S4 Group {Software Services
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CUSTOMER REQUIREMENTS

The owner's requirements were to communicate to the York chiller and view its data on the Delta ORCAview OWS, which they use to run their chiller plant. The project required pulling the capacity of the equipment and other information to be used for chiller optimization.

SOLUTION



ENTEC chose the S4 Open: BACnet-N2 Router as the best solution for this project. The installation was quite simple. The BACnet-N2 Router was installed utilizing the Upstream N2 Interface transparently providing co-existence with the legacy Metasys® head end system. Utilizing this unique S4 Open appliance capability eliminated the need to remove or disconnect any of the Metasys® head end hardware.

Steve provided onsite consulting, where he assisted in establishing the BACnet communication to the York Chillers, and also provided training that will prepare ENTEC's team for future

Metasys® Integration projects.

As usual, the ComBus Quick Tester proved to be very helpful in troubleshooting the N2 bus. ENTEC used the Quick Tester to check for any issues before moving forward with the installation of the S4 Open gateway. The owner was so impressed with the Quick Tester that they asked to purchase one as well.

END RESULT

The integration was a success, and it is still working problem-free today. The system is used day in and day out and is critical to the operation of a large hospital complex chiller optimization for over 3500 tons of cooling.

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The customer's experience helped to solidify their confidence in ENTEC as a solutions oriented partner. They were able to get the data they once saw on a JCI system and implement strategies for their chillers using a Delta Controls system.

Mark Janco, Team Leader for ENTEC Services, stated, "The goal of this integration was to pull data from an aging system for use in chiller optimization. We were able to provide a solution when the manufacturer could not."

The outcome was measured as a success—ENTEC was able to provide a solution when the OEM equipment manufacturer could not. ENTEC was able to implement chiller optimization the owner did not have before, capturing savings in energy use and utility bills.

ABOUT ENTEC SERVICES

We began our journey in 1981. From our launch, ENTEC has committed to a single goal: get it right the first time. We believe people who engage our services deserve quality solutions. It's as simple as that.

Starting out as a commercial HVAC service provider, ENTEC has grown in knowledge and expertise. Today we design and control indoor environments that promote health, safety, and productivity.

We have consistently grown our business to meet the changing needs of our customers. We now integrate building temperature controls with safe access and surveillance. We integrate fire alarm systems with ventilation controls. We understand the big picture and deliver comprehensive control solutions that position our customers for rapid changes in building occupancy or business use.

Our customers depend on us to identify the best long-term solutions, and they understand that we deliver the lowest total cost of ownership. ENTEC provides an unmatched level of accountability and expertise in troubleshooting, problem solving, verifiable preventive maintenance, and energy management.

As a local, privately held company, we serve our clients as if our future depends on it because it does. Central Illinois is our home. Our passion to serve clients is driven by the core values of Integrity, Service, Excellence, and Community that govern our decision-making.

"We are here to serve. We get it right the first time."



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