

CASESTUDY

# Mercy Hospital, Jefferson

## A Smart Building Solution for Effective Healthcare



Serving millions of patients annually, the Mercy Health System is the sixth largest Catholic health care system in the United States.

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### Project Overview

A member of this group, Mercy Hospital Jefferson is located 30 miles south of St. Louis and consists of 8 buildings that include a 250-bed acute care facility and 24-hour emergency room care along with a full range of diagnostic, preventative and restorative health care services.

### The Challenge

The hospital needed a powerful building automation system that offered an easy to use interface, graphical trending and alarming capabilities, as well as mobile functionality.

Mercy Hospital Jefferson already had experience with ABB Cylon® Auto-Matrix products, as the facility has been using various controls for over 15 years. To continue forward with the project, the hospital turned to Automation Solutions Group, a Missouri-based System Integrator for help in bringing their project to fruition.

### The Solution

After working together to identify the specific needs of the health care facility, Automation Solutions Group and Mercy Hospital Jefferson realized all their needs would be met with ASPECTFT.

The system upgrade consisted of an ASPECTFT-Enterprise front-end, an ASPECTFT-MATRIX,

### Project at a Glance

Firm	Integrated Facility Services
Location	Festus, Missouri
Date of completion	2015
Owner	Jefferson Hospital
Certification	No
Delivery method	Design & Build
Project size	146, 000 SQ. FT.
Project type	Building Energy Systems
ABB Cylon® Solution	ASPECTFT-Enterprise, ASPECTFT-Nexus, MATRIX PNC, BACnet® 530+ ABB Cylon® Controllers
Points	10,000

8 MATRIXPNCs, and over 530 various controllers. The hospital relies heavily on these devices functioning properly and effectively as various operating rooms, intensive care units, decontamination rooms, patient rooms, and offices require both comfortable and safe environments.

Scheduling via the iCalendar integration in ASPECTFT can assist Mercy Hospital Jefferson with lead / lag manipulation. Often, 24/7 facilities have multiple pieces of equipment for the same purpose to keep one device from doing all the work. By setting up a scheduling system, technicians can now be emailed alarms to help control wear and tear on



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equipment, allowing them to address concerns before they begin to affect patients. This plays a huge role in energy management also, as custom schedules can be made to operate the devices as needed and helping the hospital increase their energy efficiency.

Pairing the multitude of features and resources available with ASPECTFT and the ease of use of IFS's interface design provided the customer an easy transition to the new installation. Upon completion, the ASPECTFT map contained a total of over 10,000 points.



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**Project Highlights**

- 530+ ABB Cylon® Controllers
- ASPECTFT-Enterprise
- ASPECTFT-MATRIX
- MATRIXPNC
- SBC-GPC2
- SBC-GPC3
- SBC-VAV
- Legacy CAM Controls
- Protocols: BACnet and PUP
- 8 Buildings
  - Main Hospital
  - Emergency Department
  - Radiology / Oncology Building
  - Surgical Center
  - Medical Office Center North
  - Medical Office Center South
  - Laundry Facility
  - Headquarters

ABB Cylon® Smart Building Solutions' comprehensive Building Automation and Controls portfolio integrates key building systems such as energy, HVAC, HVAC drives, lighting, fire safety, security, and workplace management. Serving industries including commercial buildings, workplaces, hospitals, schools, campuses, stadiums, enterprises, and more. Our holistic offering creates value for our customers and provides connected

experiences to increase productivity, optimize processes, and ultimately provide higher tenant satisfaction. For more information visit [new.abb.com/buildings](http://new.abb.com/buildings)

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