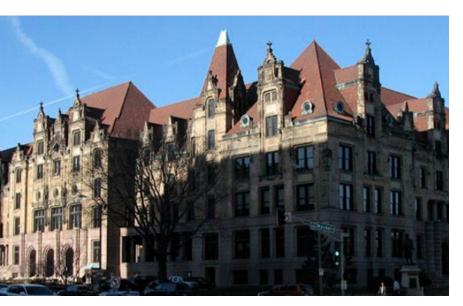


CASESTUDY

City of St. Louis, Missouri

A Smart Building Solution for City-Wide Integration



St. Louis City Hall was designed on July 19, 1890. The structure, which has housed city government since 1898, is a city landmark by appearance and reputation.

01 St. Louis City Hall

Project Overview

The design of the building was chosen from among six designs submitted through a national competition. Architecturally the building is an impressive period piece of craftsmanship and representative of a French Renaissance Revival style that is comparatively rare for public buildings in the US, as well as a seemingly sensitive gesture to the French heritage of the City of St. Louis

The project included 10 city buildings in total and involved the Mayor Francis Slay Office, the Mel Carnahan Courthouse, The Juvenile Detention Center, Civil Courts, City Hall West Bonds, St. Louis Streets Department, and three recreation centers. All buildings had been constructed in the early 1900's and were in need of immediate HVACR updates

The Challenge

The city of St. Louis, Missouri faced two major challenges when looking to upgrade the buildings that housed the city's top officials.

The first challenge was the severe climate that St. Louis faces throughout the year. Temperatures have been known to fluctuate double digits within a single day. The winters are brutally cold, with many

Project at a glance	
Firm	Integrated Facilities Services
Location	Fenton, MO
Date of completion	2014
Owner	City of St. Louis, Missouri
Certification	
Delivery method	Design & Build
Project size	65, 000 SQ. FT.
Project type	HVACR, Building Automation
ABB Cylon® Solution	ASPECTFT-Enterprise, ASPECTFT- Nexus, MATRIX PNC, BACnet® Protocol, PUP Protocol
Points	1,000+

days never getting out of the single digits. The summer months are equally harsh with extended periods often reaching over 100 degrees, coupled with high humidity.

The second challenge was taking old and often failing systems individually installed in each building, and replacing them with a dependable, central system; encompassing ten buildings and thousands of points. The new building automation system had to be durable enough to survive the harsh mechanical rooms of buildings that dated 50 to 100 years.

The Solution

Integrated Facilities Services utilized the ABB Cylon® Auto-Matrix solution in ten buildings throughout the city of St. Louis, Missouri.

Concentrating on the ease of use and scope of the project, Integrated Facilities Services and ABB Cylon® Auto-Matrix worked together to implement ASPECTFT throughout all buildings, tying the technology together with one easy-to-use front-end system. The ABB Cylon® solution controls boilers, chillers, large air houses, rooftop units, and more.

Project Highlights

- 650+ ABB Cylon® Controllers
- ASPECTFT-Enterprise
- ASPECTFT-NEXUS
- MATRIXPNC
- 1,000+ Points
- BACnet & PUP Protocols

Future Engery Savings

Future energy saving plans include Integrated Facility Services to add two more buildings to the system and to control all city operated buildings.

City of St. Louis 01



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

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