

## Institution

### Company: Midwest Engineering

The team was tasked with delivering a **reliable HVAC zoning and automation system** for a 20,000 sq. ft. public service facility in Medicine Hat, Alberta, while meeting the following requirements:

- Integrate a **VAV zoning system** with smart BACnet RTUs
- Enable **remote visibility and control** for a geographically distant project
- Simplify system architecture with **reduced wiring and fewer panels**
- Deliver a **scalable**, service-friendly solution for long-term operation

They needed more than a traditional controls setup, they needed a modern, open BACnet system that was easy to deploy, easy to support, and built for service teams.

#### Key Numbers

- **Square footage:**
  - 20,000 sq. ft.
- **19 devices:**
  - OCN+ Server
  - BZ424 VAV controllers
  - BP848 controllers

## The Solution

Midwest Engineering implemented a complete Strato Automation ecosystem, from the **OCN+ Server** to **zone-level controllers**, delivering a clean and efficient HVAC automation system.

This deployment included:

- ✦ OCN+ Server for centralized control and secure remote access
- ✦ BZ424 VAV controllers and BP848 controllers for precise zoning
- ✦ Seamless integration with smart BACnet RTUs
- ✦ VPN-enabled web services for remote monitoring and operation
- ✦ Simplified panels and reduced wiring by leveraging RTU onboard sensing

## Results & Benefits

**Remote visibility** into a fully connected project via VPN

**Improved system control** using RTU onboard sensing points (temperature, humidity, pressure)

**Reduced wiring and simpler** panels, lowering installation complexity

**Faster deployment** with streamlined engineering and setup

**Service-ready automation** easy to maintain and operate long-term

## Why Strato?

**Midwest Engineering** chose Strato Automation because the platform checked all the boxes:

- ✦ **Open BACnet architecture** for easy RTU and zoning integration
- ✦ **End-to-end system** from server to controllers
- ✦ **Service-friendly design** requiring minimal controls expertise
- ✦ **Remote web visibility** ideal for off-site municipal projects
- ✦ **Scalable platform** ready for future expansion

Strato Automation made the engineering, setup, and delivery of the project a snap. Anyone with basic controls knowledge in a mechanical service environment can work with and utilize their systems.

 **Ben Vollans**, Midwest Engineering

[www.midwesteng.ab.ca](http://www.midwesteng.ab.ca)