

Canton City Schools

Building Controls & Systems Integration • Equipment & Controls Optimization

Controls Integration Enables 22 School Buildings to Communicate on the Same Platform.

Located in Stark County, the Canton City School District is the largest in the county and one of the largest urban school systems in Ohio. It's the District's vision that every student will achieve at high levels and graduate from high school prepared to enter the work force or college.

Challenge

Canton City Schools previously used three Building Automation Systems (BAS) between 22 different school buildings to control their HVAC equipment, associated building systems and lighting. The multiple BAS made communication between the various buildings and equipment very challenging for the building operators. Canton Schools needed a way to combine all the buildings and equipment on the same BAS platform easily and cost effectively.

Solution

Canton City Schools decided to partner with Gardiner to integrate 22 of their buildings over to an enterprise level system platform. This decision was based on the business relationship they had and the user friendly format of their existing Trane Tracer Summit controls system. First, Gardiner re-commissioned all of the district's existing Trane equipment and identified and fixed any mechanical issues that needed attention. Next, the equipment and controls were adjusted for efficiency. Finally, all of the equipment, lighting and controls were integrated over to a Niagara^{AX} framework enterprise level system platform and graphics were generated for the operator workstation. The graphics gave all three controls systems in all of the buildings a consistent look and feel.



Canton City Schools • Canton, OH

Canton City Schools offers a variety of strong academic, vocational, athletic, fine arts and extracurricular activities. In 1999, a state driven program "Design for the Future" prompted the construction of ten new school buildings.

District Information

- 10,200 Students Enrolled
- 790 Teachers

District Education Buildings

- 2 High Schools
- 3 Middle Schools
- 14 Elementary Schools
- 5 Alternative High Schools
- 2 Alternative Middle Schools
- Montessori School
- Digital Arts Academy
- Arts Academy

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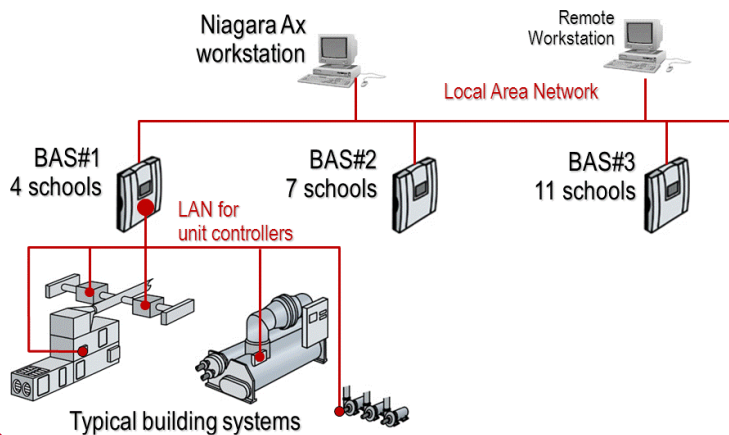
Results

All of the buildings in the Canton City School District are on the same controls platform. Communications within the district have improved now that all of the buildings are using the same interface. The optimized equipment and BAS has helped with building efficiency and energy savings. The school district was able to utilize House Bill 264, which allowed them to finance the integration project and pay for it with the energy savings they will gain from the improvements made.

“We’ve always had a close relationship with Gardiner. They are very cooperative and easy to work with.”

Operations & Maintenance Supervisor

Canton City Schools – 22 Sites



Project Overview

- Niagara^{AX} Enterprise Level System Platform
- Enterprise Systems & Controls Integration
- HVAC Equipment & Controls Re-Commissioning & Optimization
- Financing through House Bill 264

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www.WHGardiner.com or contact us at 440.248.3400