Industry

Education: K12

Environment

- New Construction
- 1100 Students
- 218,000 sq/ft
- Windows / MAC

Challenges

- Public Funding
- BYOD
- VoIP, VoD
- Limited Support Staff

Solution

- VMware vSphere
- VMware View
- EMC VNX5300
- HP C7000 Blades
- HP Procurve
- Aerohive Wireless
- Veeam

Key Benefits

- Reliability
- Scalability
- Performance

Summary: In September of 2012 Tewksbury Public Schools planned to open the new Memorial High School consisting of 218,000 square feet which serves 1,100 students. The school was designed and constructed to support the new 21st century pedagogy of interactive, engaged learning.

Challenges: Like most municipalities in New England, Tewksbury had to find a way to integrate next generation technology on a limited purchase and support budget. The district was building towards a 1:1 and a BYOD initiative as well. The new facility needed a robust infrastructure to support HVAC, Security, Video on Demand, Digital Signage, Voice over IP, and Wireless to name a few. Like all construction projects, there would be a fairly lengthy design/build phase with a rush for completion at the end.

Solution: Tewksbury Public Schools met with Whalley Computer Associates on many occasions during the design/build phase. WCA leveraged their 33 years of experience providing technology to the education community to help design a 21st century solution. After a formal RFP process, WCA was chosen as the Technology Systems Integrator to oversee and manage all aspects of technology in the new school. For the infrastructure, WCA implemented an HP Procurve solution providing 10GbE backbone with 1GbE with Power over Ethernet to support all the devices. Aerohive Wireless was installed to support secure WiFi throughout the 220,000 s/f facility. For administrative and academic computing WCA built a virtual infrastructure with HP Blades and EMC SAN. The virtual infrastructure supports all the server technology required to run the school as well as provides a Virtual Desktop Infrastructure (VDI) platform to support 600 thin clients.

Benefits: In September of 2013, Tewksbury Memorial High School opened its doors on-time, and with a 21st century infrastructure. The IT staff at TMS has a solution that they can centrally manage, and has the agility to support the rapid changes of the education landscape. TMS staff maintained a support agreement with WCA, and has been able to keep the systems fully operational into their third year. TMS has a solution that supports student and teacher laptops, iPads, Kindles, personal computers including Windows and Mac, smart phones, smart boards, and more.......

" We are very pleased we chose WCA to be our system integrator. Based on their status as an ITC47 vendor we were assured the best possible pricing on hardware and installation services. WCA took control of the project and ensured that all aspects of our technology were delivered on-time and to our specifications." We look forward to continuing to work with WCA as we expand this technology throughout our district"

Keith Young, IT Director