Case Study

Market: Education

Region : United States

Company: Middle Country Central School District

Deal implemented: 2016

Number of users: 12,000

The Middle Country Central School District (MCCSD) is located in Long Island, New York, and covers an area of about 16 square miles. The district has an enrollment of over 10,000 students and close to 1700 staff members, including 600 teachers. MCCSD is the 3rd largest suburban district in New York, with 2 high schools, 2 middle schools, 8 elementary schools, 2 pre-K/kindergarten centers and a career academy.

Challenges

MCCSD wanted to upgrade to a highly reliable infrastructure to support teaching in the classroom, improving network speed tenfold from a 1-2gig capacity to 10-20gig.

MCCSD was also looking to replace aging equipment that was no longer under warranty and problematic to maintain.

In addition, the district wished to invest in a long-life network to cope with the anticipated demands of future projects: system-wide IP camera deployment, VoIP, student BYOD, 1-to-1, etc.

Product and services

Alcatel-Lucent OmniSwitch® 6450 Stackable Gigabit Ethernet LAN Switch
Alcatel-Lucent OmniSwitch® 6900 Stackable LAN Switch
Alcatel-Lucent OmniVista® 2500 Network Management System
Alcatel-Lucent ClearPass Policy Manager

What made the difference?

The district has been using Alcatel-Lucent Enterprise solutions for over 10 years. They appreciate the consistently excellent support of their needs, in particular with sales engineering.

Benefits

Technical

The latest generation of OmniSwitch® 6450 will provide high capacity to the classroom and Power over Ethernet (PoE) to spare for the continuing expansion of cameras, phones, WLAN APs.
The OmniSwitch® 6900 core provides 40G uplinks and 10G server-facing ports for the current generation of servers, ensuring speedy and trouble-free application access.
The latest generation of OmniVista® 2500 is totally HTML based, allowing access to network troubleshooting, configuration, maintenance and backup from any device, fixed or mobile.
ClearPass allows staff to onboard their own devices onto the network, but is also a technological foundation to expand to guest and student BYOD access in the future.

Financial

MCCSD's new network empowers the school district to collapse disparate networks, for example analog cameras or digital phones, and generate important savings.

User Experience

Users benefit from higher desktop internet browsing speed as well as faster login speeds. Teachers can use in-class tools like smartboards and AppleTVs without fear of interruption due to bandwidth or quality issues.

"We understand that the best network is the one that users don't notice because it simply performs, able to deal with anything a student or teacher or administrator or IT staffer demands of it. Our previous generation was nearly invisible but there were still some issues due to aging equipment. The Alcatel-Lucent Enterprise solution is taking us to the next level and will help us achieve our future objectives as well."

Vincent Raicovi, Ed. D, Director of Technology, Business and Information Systems, Middle Country Central School District