



Guru Nanak Sikh Academy Case Study

Sector:
Education

Solution:

Cambium Wi-Fi and multi-gigabit switches with Redway Networks' design, deployment and support.

Highlights:

- Guru Nanak Sikh Academy needed a more reliable wireless network that would deliver high-density Wi-Fi coverage and support is digital strategy.
- The school selected a Cambium network based on functionality and future scalability.
- Redway Networks delivered a phased installation of Cambium's cloud-managed multi-gigabit Wi-Fi 7 and switches with no disruption to the school.
- Redway Networks' engineering team really stood out in terms of their responsiveness, and collaborative approach to the project.
- With Cambium in place, the school now has the network infrastructure to support operations for the next decade.

Guru Nanak Sikh Academy eliminates connectivity challenges with a Wireless upgrade

Guru Nanak Sikh Academy has upgraded its legacy network to a future-proofed solution, designed and deployed by Redway Networks, to enhance reliability and deliver high-density wireless coverage across the campus. The new Cambium cloud-managed infrastructure which includes multi-gigabit Wi-Fi 7 and switches has improved operational efficiency and enabled the school to meet its digital strategy.

Guru Nanak Sikh Academy in London is a large all-through school with 1,700 students aged from five to eighteen. Built on the principles of Sikhism, the academy's vision is to provide an outstanding learning environment where every student is challenged to achieve their full potential.

With a digital-first teaching strategy integrated across the school, it operates a classroom Chromebook trolley system across the school and BYOD policy for sixth-form students.

With both services placing significant demands on the WiFi the school's legacy network was struggling to cope with the growing number of connected devices. The school needed a futureproofed, robust network that would deliver high-performance connectivity as demand for devices and data-heavy learning tools increased.

From Drop-outs to Dependable Connectivity

Nathan Bareham, Senior IT Technician for Guru Nanak Sikh MAT says: "When we installed the Meru wireless network eleven years ago, our school was a very different environment. We didn't have Chromebooks and laptops and we'd only installed three access points per corridor so when we rolled out our laptop trollies we had frequent drop-outs and login failures during simultaneous device use. We needed a network that could provide the consistent experience needed to support digital teaching and learning at scale and support the school's future direction, so upgrading the WiFi became mission critical."

Guru Nanak worked with Everything ICT and explored several potential wireless vendors before being recommended to Redway Networks.

Nathan says: "The team at Redway Networks really stood out in terms of their responsiveness, and collaborative approach which led to our decision to select them and network upgrade was accelerated due to school leadership support."

The first step of the project was a Wi-Fi survey to determine the school's network performance needs and Cambium Networks was recommended for its combination of enterprise grade functionality, cloud-managed capabilities and price point.

Nathan says: "We were originally looking at Aruba but with limited budget Redway Networks recommended Cambium's Wi-Fi 7 equipment to provide the same robust connectivity and cloud-management but with much lower infrastructure and licensing costs which meant we could also upgrade our legacy switches to Cambium's multi-gigabit throughput. Transitioning our switches to Cambium management has already delivered centralised port configuration, automated updates and improved status monitoring. To build on this success, we plan to consolidate and unify the rest of the network infrastructure under Cambium management."

The school selected Cambium based on functionality, cost and future scalability with a phased installation project carefully scheduled outside school hours to minimise disruption. Wi-Fi 7 access points were installed with a new multi-gigabit switching infrastructure managed through Cambium's centralised cloud dashboard. Alongside wireless performance improvements, the school used the project as an opportunity to strengthen security by transitioning from a single flat network to separate SSIDs with VLANs to prevent security risks and device misuse with role-based network access for staff, students, sixth-form pupils and guests.

Nathan says: "The new network segmentation has improved security isolation and reduced the risk of unauthorised access or password sharing. We now have a sixth form portal with one voucher code per device so six formers can't share the password with younger siblings at the school."



"We can now deliver a digital service that wasn't possible before, which is huge as we head into the new digital era."

Nathan Bareham, Senior IT Technician, Guru Nanak Sikh MAT

Nathan says: "The design and installation service we received from Redway Networks was seamless and the positive impact on teaching and learning has been immediate. Before, teachers often experienced delays whilst devices connected to the network which reduced confidence in digital teaching but now all our devices connect instantly and reliably. Shortly after the deployment, we ran a lesson with Chromebooks and VR equipment, and we had amazing feedback from staff who said the network was much faster than they'd expected. Teachers can now start lessons immediately without connection wait times and share screens or video content directly to student Chromebooks via the WiFi."

The new wireless infrastructure has become a foundational component of Guru Nanak's wider digital transformation strategy as the school is now able to expand digital learning initiatives, support future curriculum innovation and adopt immersive technologies. The cloud-management has significantly reduced the operational burden on the IT team as they can now manage and monitor network performance proactively from any location which has saved time.

Nathan says: "By partnering with Redway Networks we've successfully transformed our wireless infrastructure into a secure, scalable and future ready platform capable of supporting our 1-1 learning vision and ensuring we can continue to enhance teaching and learning across the school."

