ISL Launches Wi-Fi 6 Network for 1,700 Students and Teachers

"There are currently around 3,000 connected devices on our network. Since digital learning and online collaboration play a key role in the educational initiatives for ISL, we had to ensure our entire school campus was provided with high-quality and secure wireless connections. We are pleased to have Cambium Networks as a reliable partner that meets these requirements and enables an optimal digital experience."

BERND BUCHMAIER,
HEAD OF IT INFRASTRUCTURE SERVICES,
INTERNATIONAL SCHOOL OF LUXEMBOURG

Overview

EDUCATIONAL INSTITUTIONS NEED a powerful and easy-to-manage wireless network that ensures stable internet access even with many simultaneous users. The International School of Luxembourg (ISL) aimed to future-proof their network by deploying Wi-Fi 6 access points in order to support the 1:1 student-device ratio.

Upgrading an Aging Network

WITH THE GROWING USE OF DIGITAL LEARNING INITIATIVES, ISL experienced issues with their existing network. The older 802.11n/802.11ac network devices were not meeting the everyday requirements of students and teachers. Video applications were also becoming increasingly common, and the old network was unable to handle that many concurrent users streaming video. These factors, plus the increasing number of devices being added to the network, were leading to capacity problems.

ISL searched for a suitable solution that included a guest portal tool to ensure secure network connections. Additionally, they needed simple and central management with a reporting function to show the status of the network.

Optimized Wi-Fi for High-Density Environments

THE INTERNATIONAL SCHOOL OF LUXEMBOURG CHOSE Cambium Networks to build a reliable and stable wireless local area network (WLAN) with optimal network connection. This includes large numbers of simultaneous connections.
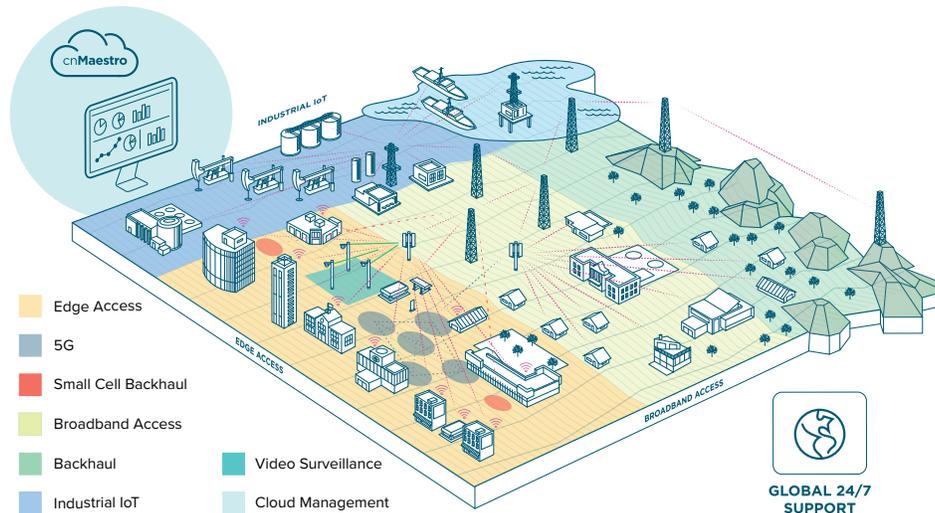
APPLICATIONS

- **Video Streaming**: Multiple students can watch video content at school
- **Google Docs:** Students and faculty connect via Google Workspace (G Suite) over the wireless network
- **BYOD Environment:** Supports BYOD initiatives for students, teachers and guests

WHY SCHOOLS CHOOSE CAMBIUM NETWORKS' XV3-8 WI-FI 6 ACCESS POINTS

- Features high-density Wi-Fi with software-defined radios
- Includes a total of five radios for edge services with high capacity

ISL is using 215 of Cambium Networks' XV3-8 Wi-Fi 6 Access Points (AP) to support 3,000 devices and 1,700 students and teachers. In addition, ISL uses XMS-Cloud, an end-to-end network management solution, to manage the devices. Together, the XV3-8 Wi-Fi 6 APs and XMS-Cloud management software seamlessly integrate with embedded education systems.

Cambium Networks' Gigabit wireless solutions enable municipal, enterprise and service provider operators to tailor connectivity to meet exact requirements and grow as needs evolve.

ABOUT CAMBIUM NETWORKS

Cambium Networks delivers wireless communications that work for businesses, communities and cities worldwide. Millions of our radios are deployed to connect people, places and things with a unified wireless fabric that spans multiple standards and frequencies of fixed wireless and Wi-Fi, all managed centrally via the cloud. Our multi-gigabit wireless fabric offers a compelling value proposition over traditional fiber and alternative wireless solutions. We work with our Cambium certified ConnectedPartners to deliver purpose-built networks for service provider, enterprise, industrial, and government connectivity solutions in urban, suburban, and rural environments, with wireless that just works.

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