

Your School Network, Delivered as-a-Service

Introduction

In the digital and AI era, primary education institutions are ardently utilizing new and emerging classroom technologies to revolutionize teaching and learning experiences. From interactive whiteboards to on-line collaboration tools, schools are leveraging these technologies to cater to diverse learning styles, promote student engagement, and ensure educators have the tools they need for effective instruction.

These digital initiatives aim to bridge knowledge gaps, foster creativity, and cultivate a future-ready student body. However, while the promise of digital education is immense, the underlying challenge lies in maintaining generations of outdated wired and wireless infrastructure and security solutions, along with the ever-present IT and budgetary constraints.

Nile's secure network-as-service (NaaS) provides an end-to-end solution that's consumed as a single entity within a school, meticulously designed, installed, and maintained to deliver robust and reliable connectivity. The outcomes are focused on elevating teaching experiences, safeguarding students, and bolstering educational initiatives.

Built-in Zero Trust and autonomous wired/wireless operations have virtually eliminated network IT tickets, rapidly isolated cyber threats, and eased the strain on lean IT teams.



Keeping Students and Teachers Connected

It's as simple as 1-2-3: network disruptions significantly hinder teaching and learning processes. Aging infrastructure often fails to deliver fast and consistent connectivity. By utilizing continuous automation across its vertically integrated tech stack and integrated data model, Nile proactively pinpoints and rectifies issues, ensuring continuous, optimized connectivity.

Sharing Responsibility for Student Success

To rise to the challenges of contemporary education, schools need robust connectivity that proactively monitors for extensive coverage, high speeds, and unwavering reliability. Digital learning is the mission, not constantly maintaining the school's network.

Nile converges its high-performance network elements with cloud-native software, and accordingly automates system care and maintenance of its Wi-Fi access points and wired switching. Through autonomous operations, a Nile network also proactively performs software upgrades in predetermined maintenance windows, and tackles shipment of replacement units after automatically detecting if a device is impacted and is ineffective in operation.

Eliminating Upfront Capital Costs

Legacy wired and wireless access network consumption can be labor intensive and time-consuming. It typically entails significant upfront costs, extended deployment phases, and compromises between cost, security, and performance requirements. IT teams are forced to navigate through unfamiliar product SKUs, determining required accessories, and worse, many hours of product integration tasks.

Nile's solution minimizes the burden of capital-intensive purchases through a manageable, predictable subscription. It takes one single step to start consuming a Nile wired and wireless network, where everything from design to operation is built into the service.

Moving Beyond the Status Quo

Managing legacy networks consumes significant IT efforts that could be better utilized on education-centric missions. Such networks demand extensive manual configurations and reactive problem-solving. Nile alleviates this by integrating all network elements of its architecture, coupled with AI and autonomous operations, and 24/7 monitoring. This markedly diminishes operational expenses and overhead for lean IT teams.



Safeguarding Students and Their Data

Finally, across primary education institutions, enabling security against potential cyber threats and protecting student data are critical considerations for IT infrastructure installations. Conventional networks typically require additional layers of software solutions to authorize, segment and isolate connected school managed and IoT, as well as those of guests.

This multiple product approach leads to potential design and configuration mistakes, leaving schools susceptible to increasing cyber threats, support costs, outages, and potential audits.

Nile addresses this by building in security principles within our Zero Trust Fabric, automatically isolating each device from any other device on the network by default. This eliminates the risk of malware proliferation across connected devices. Nile's SOC-2 Type 2 compliant solution also ensures data privacy and online safety for students, staff, and guests.

What's included?

Delivered as-a-Service, Nile is designed to share ownership in making digital learning initiatives across primary education successful. The Nile Access Service integrates the following network and security services that have traditionally been consumed separately, eliminating different support contracts, software/firmware releases, and finger-pointing.

- ✓ Design and activation after predictive site survey
- ✓ Tri-radio 4x4:4 Wi-Fi 6, 6E and 7 access points
- ✓ Wired access switching with 5 Gbps PoE+ ports
- ✓ Wired distribution switching with 40 Gbps uplinks
- ✓ User / device access control and segmentation
- ✓ Device profiling software for policy enforcement
- ✓ Guest access connectivity and management

Considering our shared responsibility, here are the line items that Nile would be leading:

- 1 Installation and activation of the network elements with Nile partners
- 2 Proactive monitoring of the service quality across all users and locations
- 3 Predictive troubleshooting of any quality changes compared to Digital Twin baseline
- 4 Automated generation of support tickets in case of issues detected
- 5 Closed-loop automation to achieve behind the scenes resolution, and
- 6 Software updates and security patches per defined maintenance window settings

As a consumer of the Nile Access Service, IT teams retain responsibility for:

- 1 Provisioning SSIDs, zero trust policies and role-based segments via Nile Portal
- 2 Simple integration workflows with existing IT infrastructure components and endpoints
- 3 User authentication and authorization rules for wired and wireless access
- 4 User specific Help-desk ticketing issues, where Nile Portal provides detailed identity-based information

The Time Is Now

Nile is the go-to solution for primary education institutions aiming to deliver secure and automated connectivity that enriches teaching and learning experiences while minimizing operational and lifecycle burden. It's time to move to a next-generation wired and wireless access network consumed in one simple step - and stop compromising student success due to limitations of traditional network infrastructures.

Modern Technology, Aligned Mission



"Nile allows us to do what we do best; work with our students and teachers. We also want to spend more time creating things, not constantly maintaining a network. Our energy is now spent on things that are still technical, but more closely aligned with our school's mission."

Larry Steinke

Dir. of Technology Services, St. Francis H.S.

About Nile

Nile is a pioneer and leader in secure networking-as-a-service (NaaS). With AI-powered service delivery and autonomous operations, Nile solutions cut through complexity and cost versus legacy networking solutions, while delivering radical operational simplicity and user experiences.

Ready to Get Started?

Request a Demo