

Campus NaaS for Higher Education

Secure Wired and Wireless Network Access
Delivered as-a-Service

The higher education landscape is evolving rapidly as universities and colleges adopt digital and AI technologies to enhance learning, research, and the overall student experience. Campuses are no longer just centers for teaching; they are also hubs for research, innovation, and community engagement, where seamless and reliable network connectivity is essential.

At the same time, institutions must support continuously changing user needs, expanding application demands, and a growing number of IoT devices. Maintaining the status quo or pursuing a traditional network refresh can be a daunting, months-long effort that fails to keep pace with the speed of innovation.

That challenge is made harder by:

1.

Aging legacy infrastructure
and lifecycle issues

2.

Expanding use cases
and limited IT resources

3.

Evolving security
concerns and budget
constraints

A New Model for Campus Networking and Security

A secure Network-as-a-Service (NaaS) model enables universities and colleges to shift from capital-intensive, budget-constrained infrastructure to a consumption-based approach that aligns networking spend directly with demands. By abstracting complexity and operational burden, it overcomes scarce IT resources and accelerates the pace of change without expanding internal teams or tooling overhead.

Institutions can now consume their entire wired and wireless access network as-a-service, free up capital and IT resources, improve operational efficiency and significantly lower the total cost of ownership (TCO) of operating a network across a distributed campus.

The Nile Difference

With Nile, institutions ultimately gain resilient wired and wireless networks that provide extensive Wi-Fi coverage everywhere, high-speed computing, and unwavering reliability and security. Nile's secure NaaS replaces legacy campus networking with a next-generation architecture that combines the latest wired and wireless infrastructure with modern networking software and Zero Trust Fabric.



Unmatched Reliability

Extensive Wi-Fi coverage and built-in redundancy designed to eliminate trouble tickets.



Zero Trust by Default

Built-in security software and architecture replace aging, vulnerable legacy model.



Autonomous Operations

Embedded AI handles advanced troubleshooting and many manual IT maintenance tasks.

Nile also provides institutions with a flexible subscription model and future-proofing, eliminating the need for large upfront capital investments, retiring and disposing of legacy equipment, and time-consuming IT requirements.



We're a school, not a tech company. We want to provide the reliable network that students need without having to develop the in-house expertise to maintain it. Nile gave us that.

Jonathan Breitbarth

Director of Computer Services at Concordia University, St. Paul



Always-On Wired and Wireless Connectivity

Intermittent issues and unplanned network outages can have a severe impact on learning, research productivity, and campus life. Nile AI proactively identifies and resolves issues before they become problematic, ensuring uninterrupted connectivity, coverage and performance. Built-in and standalone Nile sensors continuously monitor the network to ensure optimum performance.

Outcomes:

Problem-Free Experiences

Optimized user and IoT connections that keeps pace with expanding AI and cloud application demands.

Seamless Mobility

Zero dropped connections as user move between classrooms, buildings, or across the open campus.

Highly-Resilient Connectivity

Redundant switch option designed to protect critical research environments from network failures.

Zero Trust Safeguards

To enhance the delivery and enforcement of user- and device-level access policies across the wired and wireless access network, Nile includes zero trust security capabilities by default. This eliminates legacy network vulnerabilities, such as VLANs and associated lateral movement-initiated threats from easily spreading across a campus or student residence environment.

Outcomes:

Segment-of-One Isolation

Every computer, phone or IoT device is natively isolated from one another to prevent the spread of malware and emerging threats.

Default Wired Port Security

All Ethernet ports are locked-down by default to block unauthorized access at the physical layer.

Enhanced Data Privacy & Compliance

Nile delivers a heightened level of protection, essential for open, highly targeted university and college campus environments.

New Operational Efficiencies

Nile AI and autonomous operations go a step further by incorporating AI, agents and digital twin use throughout the lifecycle of the Nile service. This significantly reduces the operational burden and overhead of deploying and maintaining a legacy network environment by 30 to 60%. Gone are cumbersome upfront design and planning, installation projects, and frustrating post-installation hardware and software fixes.

Outcomes:

Pre-emptive Troubleshooting

Autonomously adjusts Wi-Fi RF and switching paths in the event of behavior anomalies, eliminating emergency help desk tickets.

Interrupt-Free Software Upgrades

Proactive updates done in the background, saving IT teams from waiting months to deploy new features and security patches.

Automated Network Monitoring

Alleviates the need for IT teams to monitor and maintain the service on their own, freeing them for higher-value projects.

Conclusion

Institutions today demand a network that drives innovation, not an antiquated infrastructure that drains capital and scarce IT resources. Relying on legacy network architectures with unpredictable performance, licensing and escalating security vulnerabilities is no longer just an IT headache, it's an institutional risk.

Nile's Secure NaaS transforms your network from a capital-heavy operational burden into a strategic asset by delivering key business outcomes:



Financial Predictability

Shifts massive, unpredictable capital expenditures (CapEx) into a consumption-based, optimized TCO model.



New Operational Efficiency

Operational overhead reduced by **30% to 60%**, maximizing lean IT resources.



Uninterrupted Experiences

Guaranteed problem-free, connectivity across the distributed campus, safeguarding institutional reputation.

The Bottom Line:

Nile allows university leadership to unlock the full potential of their infrastructure and IT personnel. By abstracting legacy constraints, Nile delivers the secure, speed-to-innovate connectivity required to meet today's evolving higher education requirements.

Ready to Get Started?

[Request a Demo](#)