

SOLUTION BRIEF

Campus NaaS for Higher Education

High-performance wired and wireless
LAN for today's digital learning



Introduction

The higher education landscape is rapidly evolving as universities and colleges eagerly adopt various digital technologies to enhance learning, research, and student demands. In this era, colleges and universities are not just teaching hubs but also research centers, relying on seamless and reliable network connectivity for everything from digital classrooms to complex data analysis.

However, the ability to support evolving user needs, applications, and IoT devices is challenged by aging infrastructure, scarce IT resources, and budget limitations. The legacy approach to network refreshes is a daunting task that takes months and is often interrupted by more pressing initiatives and tight timelines.

Additionally, managing and troubleshooting legacy networks strains IT resources that cause delays in delivering uninterrupted wired and wireless connectivity.

Updating, procuring, deploying, and managing legacy networks can be a time-consuming and resource-intensive process. It often requires significant capital investment, lengthy lead times, complex integration efforts, and increased reliance on scarce technical resources.

Enter Nile.

The Campus NaaS Alternative

With Nile, institutions can not only consume their entire wired and wireless access network as-a-Service, they gain the industry's only financially-backed coverage, capacity and availability performance guarantee. Institutions also free up capital and IT resources, optimizing costs, and improving operational efficiency.

Institutions ultimately gain resilient wired and wireless networks that provide extensive Wi-Fi coverage anywhere on campus, high-speed computing, and unwavering reliability and security. Nile's Access Service replaces legacy campus networking with a next-generation architecture that combines high-performance wired and wireless infrastructure with modern networking software and Campus Zero Trust principles.

Nile Access Service enables flexible per-user or per-square-foot consumption, eliminating the need for any upfront capital investment. Built-in AI networking and automated software updates provide enhanced troubleshooting and maintenance services that alleviate traditional and burdensome IT tasks, as well as lengthy outages and time-consuming trouble tickets.



The Nile Campus NaaS solution gives us premium Wi-Fi, Ethernet and security that are better than anything we could build ourselves using a standard IT approach. We also get an extremely high level of quality backed by service level agreements.

ANDY GOODENOW
CIO, University-Missouri Kansas City

Always-On Connectivity

Intermittent issues and unplanned network outages can have a severe impact on learning, research productivity, and campus life. Nile proactively identifies and resolves issues before they become problematic, ensuring uninterrupted connectivity and performance.

In addition to proactive software upgrades, Nile has also automated the monitoring and maintenance of the entire Nile Access Service. For example, in the event of hardware failure, replacement shipments are automatically scheduled. IT teams are then free to focus on strategic cloud and application projects, enhancing the capabilities of their institutions.

Safeguarding Users and Data

To enhance how IT teams deliver and enforce consistent user- and device-level access policies across the wired and wireless access network, Nile includes Campus Zero Trust security features that eliminate legacy network vulnerabilities, such as VLANs and associated lateral movement-initiated threats.

In a Nile network, built-in Nile Trust Service features ensure every mobile user and IoT device is isolated from each other by design and they go through continuous authorization, effectively safeguarding against malware proliferation while ensuring a new level of data privacy and malware protection. This is critical as Higher Ed campuses are fairly open making it easy for passersby to possibly connect to campus networks.

New Operational Efficiencies

With Nile, IT organizations are experiencing a new level of freedom as cloud-native automation has significantly reduced the operational burden and overhead of legacy network deployments. Institutions have also said goodbye to lengthy upfront design and planning projects as Nile is involved from day one with everything from site visits to the automated creation of a Bill of Material (BoM). This enables faster rollout times, reduced dependence on scarce and expensive technical resources, and problem-free network deployments and refreshes.

Conclusion

Higher education institutions are increasingly being asked to deliver uninterrupted, secure connectivity that enhances learning, research, and campus experiences. It is no longer prudent to rely on antiquated legacy network architectures, vulnerabilities, licensing, and support.

Nile's Campus NaaS model allows Higher Ed institutions to unlock the full potential of their wired and wireless networks and IT staff - without the traditional constraints of legacy network infrastructures.

For more on the value of Nile's next-gen architecture, visit [here](#).