

Why should higher education adopt Wi-Fi 7?



At a glance

Higher education is facing a digital transformation driven by a growing number of new smart technologies. New classroom applications, sensitive research data, and increasing numbers of IoT devices require reliable infrastructure to support the campus of the future. Students not only expect but require at-home connectivity in their dorms and across campus. This increasing demand and device density complicates and strains campus networks.

Wi-Fi 7, the latest generation of wireless technology, offers significant improvements to higher education to enhance student experiences and provide reliable coverage across the entire network regardless of location. It is designed to handle the complex network requirements students, staff, and faculty require while supporting advanced AI applications and operational efficiency.

The case for Wi-Fi 7: Five compelling benefits for higher education

- 1.Higher throughput and lower latency:** Students and faculty are using new digital applications and often live stream their courses with remote learners. Wi-Fi 7 enables faster data processing and communication, which are crucial for remote learning and adopting new classroom applications.
- 2.More IoT devices at higher densities:** Students expect an at-home experience in their dorms, which require connecting multiple devices for entertainment and to access their courses in and out of the classroom. Wi-Fi 7 can handle a higher density of connected devices, ensuring seamless connectivity for the campus infrastructure and student experience.
- 3.Improved interference management:** Advanced features in Wi-Fi 7 minimize interference from other wireless devices and networks, creating more stable and reliable connections. This is especially crucial in higher education where infrastructure can disrupt signals.
- 4.Enhanced security features:** Cybersecurity is a top concern for higher education. Student and research data are both highly sensitive and a prime target for cyberattacks. With built-in advanced security measures, Wi-Fi 7 protects sensitive student & research data and ensures a secure environment. These protocols include advanced encryption and compliance with industry standards.
- 5.Future-proofed network:** Investing in Wi-Fi 7 lays the foundation for the upcoming revolution in higher education, driven by AI, which will demand a campus with a reliable network infrastructure that can meet the needs of tomorrow's students and the research of the future.

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