Murmansk Arctic State University

With Futureproof Solution, Russian Uni Secures Seamless WiFi for Years to Come

Customer at a glance

Customer Name
Murmansk Arctic State University

Industry
Education

Organization Size
Two branches, 600 staff, and 2,300 students

Country
Russia

Customer Background

Established in 1939, Murmansk Arctic State University (MASU) was the first institute of higher learning in northwest Russia's Kola Peninsula, and it has since become one of the region's flagship schools. Currently with more than 4,500 students, including around 2,300 full-time ones, MASU is growing fast and looking to expand further in coming years.

MASU
MURMANSK ARCTIC STATE UNIVERSITY

Having invested in these high-performance equipment from Zyxel Networks at our university, we've been able to reach a new level of education.

Andrey Artyukhovich
Deputy Head of Informatization Department, Murmansk Arctic State University

Summary

With its existing infrastructure failing to even handle 100 simultaneous connections, MASU tendered for a new high-speed WiFi network through system integrator SmartInTech. "At the crux was getting a smart wireless network controller to connect the main WiFi network and all server equipment," SmartInTech's Elena Vasilenko said. "That meant the controller needed to be powerful enough to handle all the traffic and power supply loads." Unable to accommodate the costs and delivery times of the world's largest manufacturer, SmartInTech tested equipment from Zyxel Networks and found it satisfied all technical requirements and came in under budget. It took two months for a team of 10 to lay the cables, install the access points, and optimize the signal coverage, and now the new infrastructure is working smoothly. "The WiFi is superb in all four buildings with three SSIDs, and it's been very straightforward for us to configure thanks to the NXC5500 controller," Vasilenko said. "In hard-to-reach rooms that couldn't be connected with cables, ZyMESH was used to increase the signal radius." She added: "The APs' response time is excellent, and we're excited they can be cheaply and easily upgraded to the 802.ax protocol down the road to bring WiFi 6 to the university."

Challenges

- Construct a new high-speed WiFi network to serve all users in the university's four main buildings
- Deploy a controller that can handle the network's substantial traffic and power needs
- Ensure wireless signals reach everywhere in the campus's four main buildings, including hard-to-reach areas

Benefits

- Reliable, high-speed WiFi across every square meter of the buildings
- Easy and convenient management with full visibility of the entire wireless network
- Futureproof infrastructure allows for easy transition to WiFi 6 and expansion without significant equipment investments

Solutions

- NXC5500 WLAN Controller
- GS1920-48HPv2 Smart Managed PoE Switch
- NWA5123-AC HD 802.11ac Access Point