CASE STUDY

PIONEERING CONNECTIVITY: OTANI UNIVERSITY DEPLOYS JAPAN'S FIRST WI-FI 7 ENVIRONMENT WITH RUCKUS

The Milestone: In Fall 2024, Otani University became the first institution in Japan to introduce the Wi-Fi 7-compatible RUCKUS R770.

The Choice: Driven by a need for stability in high-density classrooms, the university chose RUCKUS for its superior interference resistance and wide-area coverage.

The Result: A seamless, high-speed wireless environment across campus buildings, ensuring stress-free communication for 3,100 students and faculty.

大谷大学

Customer
Otani University

Location
Kita-ku, Kyoto City

Founded
1901

www.otani.ac.jp

Philosophy: Grounded in "Human Studies" and the Buddhist spirit of Shinran, aiming to cultivate individual character.

Structure: A specialized institution focused on literature, social sciences, and education.

The Challenge: Overcoming High-Density Interference

With over 3,100 students frequently using PCs and tablets simultaneously, Otani University faced significant radio wave interference. Students reported that the wireless LAN was difficult to use in large lecture halls, prompting the university to seek a more robust solution that could handle high-capacity demands without signal degradation.

The Solution: Why RUCKUS?

The university's Education and Research Support Team, led by Mr. Keisuke Oka, selected RUCKUS for its unique technical advantages:

- **BeamFlex+® Technology:** Unlike standard access points that emit signals in all directions, RUCKUS BeamFlex+® monitors each client (PC/tablet) and directs a strong, optimal signal toward it.

- **Wide Coverage & Interference Resistance:** A single RUCKUS access point can cover a significantly wider area than competitors, providing reliable connectivity even in distant corners of large classrooms.
- **Centralized Management:** The ability to manage hundreds of access points via a virtual appliance controller was critical for the university's lean IT staff.

Implementation and Results

- **Campus-Wide Rollout:** Following a successful initial deployment in the Keimonkan Building between 2016 and 2018, the university expanded RUCKUS across all facilities, including the library, museum, and faculty offices.
- **The Wi-Fi 7 Advantage:** As older models reached end-of-support, the university upgraded to the RUCKUS R650 and the R770. "We introduced the R770 to ensure our computer labs stay ahead of the curve," says Mr. Oka. "As more devices become Wi-Fi 7 compatible, our students will enjoy even more effective and stable communication".

Looking Forward: AI-Driven Operations with RUCKUS One®

To address the challenge of "sticky clients" (devices remaining connected to hallway APs instead of switching to classroom ones), Otani University is exploring **RUCKUS One**. This AI and machine learning-driven platform will allow for automatic output adjustments and optimized control, making network operations more efficient for the university's maintenance staff.

www.ruckusnetworks.com

Visit our website or contact your local RUCKUS representative for more information.

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