



# Upgrading the Network to Drive Dairy Research Efficiency and Innovation

## Overview

The dairy company, dedicated to advancing probiotic and dairy innovations, required a reliable and seamless network to support its research lab in Gyeonggi-do and headquarters in Seoul. With Zyxel Networks' solutions, the company overcame challenges related to network connectivity and centralized management. By deploying unified SSIDs, strategically placed WiFi 6 access points, and cloud networking management platform, it ensured uninterrupted connectivity for over 500 staff members. Advanced cybersecurity features, including firewalls and URL filtering, protected sensitive data while optimizing bandwidth usage. These upgrades empowered researchers to focus on innovation without technological constraints, boosting the company's productivity and operational efficiency.

## Challenges

The dairy company faced significant hurdles in maintaining a reliable network across its headquarters and research lab. Frequent interruptions during staff movement between floors hindered efficiency, as users had to reconnect manually to new access points. Given the high volume of research data being uploaded and downloaded daily, the need for uninterrupted WiFi was critical. Furthermore, ensuring network security to protect sensitive research data from potential cyber threats was a top priority. The company also required centralized management of its headquarters and research lab networks to streamline operations and minimize administrative complexities.

## Solutions

To ensure seamless connectivity, the dairy company deployed WAX610D WiFi 6 access points across its headquarters and research facility, including all research labs and office spaces. These access points supported high-speed connections and were strategically placed to eliminate coverage gaps.

### Customer

Dairy company

### Industry

Manufacturing

### Location

Seocho-gu, Seoul

### Partner

LG U+

## Customer Background

Headquartered in Seoul, the dairy company is dedicated to advancing dairy product innovations and conducting in-depth probiotic research. Its operations span across a headquarters and a multi-level research facility, employing over 500 staff members. Reliable, high-speed wireless connectivity is crucial for transferring and accessing research data seamlessly across teams.



A unified SSID was implemented, allowing researchers and staff to move across floors and between buildings without needing to reconnect, ensuring uninterrupted workflow. To maintain the facility's clean aesthetics and accommodate specialized equipment in labs, many access points were discreetly embedded into ceilings, balancing functionality with design considerations.

The GS1920-8HPv2 PoE switches were installed on each floor to supply power to the access points, providing 30W of power per port, with a total of up to 130W. They also feature advanced management functions to prevent network errors and maintain network stability.

To address security concerns and network management, USG FLEX 200 firewalls were installed to provide robust protection against cybersecurity threats, including malware, phishing attempts, and unauthorized access. These firewalls also enabled URL and application filtering, ensuring network resources were dedicated to critical research activities. Centralized management of the networks across the headquarters and research facility was achieved using a unified system, simplifying administrative tasks and providing real-time monitoring capabilities.

## Product List



- WAX610D WiFi 6 Access Points



- GS1920-8HPv2 Smart Managed PoE Switch



- USG FLEX 200 Firewall

## Results

The implementation of a seamless and secure network transformed the dairy company's operational efficiency. Staff now enjoy uninterrupted WiFi connectivity, enabling them to move freely across floors and buildings without disruptions, which has significantly boosted productivity. The advanced security firewall provides a secure environment, protecting against cybersecurity threats while ensuring bandwidth is dedicated to essential research tasks. Centralized network management simplifies oversight of both the headquarters and research facility, improving administrative efficiency. With a stable and reliable network, researchers can fully focus on their innovative work, free from technological hindrances.

- Staff can move seamlessly across floors and buildings without disruptions, significantly enhancing productivity
- Advanced firewalls safeguard against cybersecurity threats and restrict inappropriate usage
- Simplified management and centralized oversight of both locations' networks improve operational efficiency
- A stable network enables researchers to focus entirely on innovation

