



Creating a Secure, High-Density WiFi 7 Environment for Confectionery Firm

Overview

A leading Korean confectionery company moved into a new 10-story headquarters in Seoul's Gangnam-gu. The company needed a secure and reliable mobile WiFi service to support hundreds of employees while keeping the mobile network separate from the business network. The company deployed a WiFi 7 solution to deliver stable wireless performance in a high-density office environment with many connected users. The mobile-only network with DPI-based security helps optimize traffic, block threats, and strengthen network protection. Seamless roaming allows employees to stay connected as they move between workspaces without network interruption. With centralized management through Nebula, the company can efficiently monitor and manage the network without requiring a dedicated in-house IT team.

Challenges

With more than 500 employees moving into the new building, the stability of the in-office internet connection and company WiFi services is essential to daily productivity. The relocation called for a dedicated mobile WiFi service for employees, and company security policy required this mobile network to be physically separate from the business network. The company also needed a management structure that could run reliably without adding dedicated IT staff on-site, along with an efficient setup.

Solutions

The previous network security system relying only on simple port-based packet filtering or NAT is no longer sufficient to defend against increasingly intelligent cyberthreats. The company deployed a high-performance USG FLEX 700H firewall at the top of the network, with up to 15Gbps of firewall throughput. The firewall integrates intrusion prevention (IPS), anti-malware scanning, web filtering, and application control into a single device. Powered by Deep Packet Inspection (DPI) technology, it analyzes network traffic to accurately detect and block threats across a wide range of data flows. By centralizing these security capabilities in a single platform, the solution simplifies security management, reduces administrative workload, and helps ensure consistent security policies across the network.

Customer

Korean Confectionery Company

Industry

Manufacturing

Location

Gangnam-gu, Seoul, South Korea

Partner

UNA Engineering

Customer Background

Founded in 1956, this leading Korean confectionery company has launched many popular products and played a key role in the international and domestic confectionery industry for decades. The company relocated to a new 10-story headquarters in Gangnam-gu due to growing space requirements and an aging facility.



To support the high user density expected in the new office, WBE630S WiFi 7 access points were deployed to provide stable corporate WiFi performance. The 4x4 MU-MIMO dual-radio APs support WiFi 7 features including 4K-QAM, 320 MHz channel bandwidth, and Multi-Link Operation (MLO), delivering higher throughput and reliable connectivity for multiple concurrent users. The BandFlex feature enables flexible switching between 5GHz and 6GHz bands, reducing deployment costs compared to triple-radio APs while meeting future needs. To prevent channel conflict with the existing 5GHz business WiFi, the new mobile WiFi network utilizes 2.4GHz and 6GHz bands to separate wireless resources, reduce interference, and ensure stable operation.

To ensure stable connections as employees move around the building, all access points share the same WiFi name, allowing staff to roam seamlessly between offices, meeting rooms, and common areas without re-authentication. Since roaming decisions are typically made by client devices, some devices may remain connected to weaker signals. Nebula's Smart Steering monitors signal quality and guides the devices to stronger nearby access points when needed, ensuring uninterrupted connectivity as employees move between workspaces.

Product List



- WBE630S WiFi 7 Access Point



- XGS4600-32F L3 Aggregation Fiber Switch
- GS1920-24HPv2 Smart Managed PoE Switch



- USG FLEX 700H Firewall

Results

The new headquarters now benefits from a fully managed WiFi service, delivering fast and stable connectivity to over 500 employees without adding a dedicated on-site IT team. The new network keeps mobile and business networks securely separated while giving administrators full visibility and remote control with Nebula. From a single dashboard, IT staff can monitor device status, connected users, and traffic in real time, analyze wireless conditions such as channel interference and signal strength, and receive automatic alerts to quickly identify and resolve issues without on-site visits.

- Stable, high-density WiFi 7 coverage for 500+ employees across the new headquarters
- Physically separated mobile network, isolated from the business network for stronger security
- Up to 15Gbps of integrated security throughput, blocking threats without slowing down traffic
- Seamless roaming between floors and rooms, without re-authentication needed
- Nebula's secure cloud networking solution with centralized management for real-time visibility, remote configuration, and firmware management

