



Enhancing Operational Efficiency and WiFi Experience in Korean Dental Hospital

Overview

The dental hospital relies on oral scanners for treatment and checkups. Initially, the hospital installed a single router positioned in the lobby's reception area to facilitate wireless connectivity. However, this setup proved insufficient to meet the demands for connectivity, resulting in slow and intermittent connections. Consequently, it caused operational inefficiencies and patients faced inconveniences when attempting to access the hospital's WiFi. Following the upgrade to Zyxel Networks' WiFi 6 access points, the dental hospital has effectively established an uninterrupted WiFi environment and improved operational efficiency.

Challenges

Hospital staff encountered frequent WiFi issues while using oral scanners across 17 dental clinic examination rooms. WiFi disconnections or slow data transmission during in-hospital checkups caused inconvenience. For instance, staff needed to scan a patient's teeth with an oral scanner and transmit the file, but the hospital's WiFi was so sluggish that it took 20 minutes to send the file. Additionally, patients in the waiting room experienced slow or interrupted wireless internet, leading to inconvenience.

Solutions

The dental hospital implemented a wireless network using LG U+ WiFi Office solution featuring Zyxel Networks' NWA90AX access points for wireless connectivity. This solution streamlined wireless network installation, and facilitated subsequent monitoring and maintenance. NWA90AX access points were placed in the lobby and corridor between examination rooms to ensure seamless wireless connectivity without shadow areas throughout the hospital.

Customer

Dental clinic

Industry

Healthcare

Location

Wonju, Korea

Partner

Max Information & Communication
LG U+

Customer Background

The dental hospital in Wonju has a total of 17 examination rooms. These examination rooms serve for both dental check-ups and treatments, facilitating the use of hospital medical devices through wireless network connectivity.



Results

The new network has eliminated WiFi dead zones and improved network speeds, creating a stable and high-performance network environment to meet the demands of the hospital's business wireless network. Implementing Zyxel Networks' WiFi 6 access points has effectively reduced slow connections and operational inefficiencies, leading to improved workflow and patient satisfaction. Now equipped with a reliable and uninterrupted network connection, the hospital staff can seamlessly utilize oral scanners across examination rooms without facing frequent WiFi disruptions.

Furthermore, the benefits of this network upgrade extend beyond the hospital staff to encompass the patients themselves. With uninterrupted wireless internet access now readily available throughout the hospital premises, patients awaiting treatment can connect to the internet without any interruption. This enhanced connectivity experience significantly delivers a more positive and comfortable environment for individuals during their time at the hospital.

- Enhanced WiFi environment and work efficiency without the hassle of complex network management
- Smooth hospital operations and enhanced patient experience during their visits to the dental hospital

Product List



- NWA90AX WiFi 6 Access Point

