

Futureproofing a Thai Hospital's Network for Smarter Healthcare

Overview

As more of its work moved onto digital systems, Chaibadan Hospital in Lopburi Province needed fast, dependable connections between different departments, solid protection for critical data and access to digital resources, and a network infrastructure with room to grow.

Zyxel Networks' XS3800-28 L3 aggregation switch serves as the high-speed core of the upgraded network, with built-in traffic management and access control capabilities. Together, these features keep daily operations steady and secure, with the capacity to take on new digital healthcare services as they arrive.

Customer
Chaibadan Hospital

Industry
Healthcare

Location
Lopburi, Thailand

Partner
Fastnet Center Co., Ltd.

Challenges

At Chaibadan Hospital, medical operations and internal management systems depended on a reliable, high-performance network. Efficient data transfer and connectivity between departments were essential to keeping daily operations running smoothly. The hospital needed infrastructure that could support these demands without slowing down critical workflows, while supporting future developments in digital healthcare services.

Security was another priority. As more of the hospital's operations ran on digital systems, the network had to do more than keep everything connected. It needed a security system capable of protecting critical data and controlling access to digital hospital resources, ensuring sensitive information stayed safe and that only authorized users could reach the systems they needed.

Customer Background

Chaibadan Hospital is a community hospital operating under the Ministry of Public Health. Serving Chai Badan district and surrounding communities, the hospital is classified as an M2 secondary care facility, offering primary and secondary healthcare services, including specialized medical care.

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Solutions

To meet Chaibadan Hospital's network demands, Zyxel Networks delivered a high-performance network designed to support medical operations, internal management systems, and future digital healthcare services.

At the core of the network, the XS3800-28 L3 aggregation switch provides a high-speed backbone for efficient data transfer between hospital departments. With 28 ports and up to 560Gbps of switching capacity, it offers the bandwidth needed to handle traffic from multiple administrative and medical systems. Its flexible fiber and copper connectivity options also support fast connections for servers and other network devices. For a hospital where reliable connectivity is essential, the switch's dual power supply redundancy adds another layer of resilience, helping maintain network availability if one power supply fails.

To better safeguard hospital data and systems, network segmentation through VLANs helps separate departments, devices, and services, while security policies and access controls strengthen protection for sensitive data and critical hospital resources.

Product List

- XS3800-28 L3 Aggregation Switch
- Nebula Cloud Networking Solution

Results

Behind the scenes at Chaibadan Hospital, clinical and administrative teams now benefit from dependable connectivity that supports their day-to-day work. Communication and data sharing across departments are smoother, while stronger security helps protect sensitive information and critical IT systems. With a scalable network and security foundation in place, the hospital is prepared to introduce new digital healthcare services and expand its technology infrastructure as future needs evolve.

- High-performance network supporting daily hospital operations
- Enhanced security for IT systems and sensitive data
- Improved communication and data transfer across departments
- Readiness for essential medical systems and digital patient care services
- Scalable network and security foundation for future expansion



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