

Boosting healthcare connectivity for better patient care with RUCKUS® Wi-Fi

CUSTOMER

108 Military Central Hospital

COUNTRY

Vietnam

CHALLENGES

- Lack of strong, reliable coverage in all hospital areas
- Existing Wi-Fi infrastructure struggled to meet the ever-growing service coverage, density and bandwidth requirements of the hospital
- Issues with integrating independent internal and external networks at the hospital, such as specialized medical software
- Difficulties in scaling Wi-Fi systems and building reliable infrastructure that is IoT ready

SOLUTIONS INCLUDED

- RUCKUS® R320 and R510 access points
- RUCKUS ICX 7150-24P and 7450-48F PoE switches
- RUCKUS SmartZone 100 wireless network controller

ESTIMATED IMPACT

- Improved internet connectivity speed by 150 percent
- Improved reliability of service by 100 percent
- Achieved 100 percent internet service uptime
- Improved user satisfaction for patients and their families by 100 percent
- High-speed internet access for staff improved productivity by 30 percent



Reliable and high-performance Wi-Fi, powered by CommScope and BMA-Viettel joint venture, proves indispensable for critical healthcare in Vietnam

WIRELESS TECHNOLOGY ENSURING CRITICAL RELIABILITY OF HEALTHCARE

The 108 Military Central Hospital is the largest and most modern healthcare building in Vietnam. It is the country's only medical facility with 50 positive-pressure

operating rooms, including 45 standard operating rooms, three organ transplant operating rooms and two hybrid operating rooms. The hybrid rooms are equipped with advanced diagnosis, intervention and surgery facilities such as MRI machines, CT scanners and a robotic intervention imaging system.

Its expert teams attend to more than 5,000 patients daily, including walk-in patients and those being referred to the hospital. In the first nine months of 2019, the hospital examined and treated nearly a million people.



With technology playing an increasingly important role in ensuring the reliability of healthcare and treatment services, BMA-Viettel turned to CommScope's RUCKUS networks to offer a better guest experience.

NEEDS

Modern hospitals are a hive of activity. Medical equipment and patient services are constantly evolving, and becoming more connected. Advancements in technology have played a crucial role in improving patient outcomes at hospitals worldwide, but introducing these new, ever-more-advanced medical devices has layered additional complexity for healthcare IT professionals. As such, hospitals worldwide recognize the need for reliable Wi-Fi infrastructure to efficiently deliver quality healthcare.

With Wi-Fi networks facing mounting pressure to enable higher standards of patient care and seamless connectivity across critical healthcare applications, 108 Military Central Hospital soon realized their current hospitality-based networking hardware was unable to meet the requirement of the hospital in terms of service coverage, density and bandwidth. The existing Wi-Fi system proved difficult to scale and could not support and integrate with existing external software used by the hospital.

SOLUTIONS

Given these issues, 108 Military Central Hospital decided a transformation of the underlying infrastructure of their medical systems was in order. They consulted Binh Minh TTA JSC (BMA),

a RUCKUS managed service portal (MSP) provider in Vietnam, and Viettel Group, a top network provider in Vietnam, which ultimately recommended RUCKUS Wi-Fi solutions for the hospital's new network infrastructure after a comprehensive search for alternatives.

This led the hospital to deploy a suite of RUCKUS connectivity solutions—including R320 access points, ICX 7150-24P and 7450-48F PoE switches, and SmartZone 100 wireless network controller. In addition to providing the RUCKUS Wi-Fi devices, BMA-Viettel helped develop the necessary software solutions that allowed seamless integration with external systems, hence providing a complete solution meeting all the requirements of a connected hospital.

RESULTS

With the RUCKUS suite of solutions in place, 108 Military Central Hospital now has a high-performance, secure, and reliable wireless network that improves user satisfaction and boosts staff effectiveness as well as efficiency.

In addition, 108 Military Central Hospital was able to easily deploy and integrate new medical infrastructure developments—enabling greater quality of medical care and information sharing.

Given this success, 108 Military Central Hospital has plans to further expand their partnership with BMA and RUCKUS, aiming to deploy to the rest of their hospital buildings and further bolster network systems to be IoT ready to address future needs of the hospital.

"Given the reputation of RUCKUS Wi-Fi in supporting high-density and challenging environments, this proved to be a perfect match for 108 Military Central Hospital. We have seen that the new wireless network greatly enhances the overall user experience, for both patients and staff alike."

NGUYEN Tri Quan

**IT Staff
108 Military Central Hospital**



“Our top priority is ensuring that we continue to uphold our reputation as a hospital that delivers world-class healthcare services in Vietnam. Thanks to RUCKUS and BMA-Viettel, we had a significantly cleaner process with overhauling the existing wireless infrastructure, and were able to lay the foundation for an IoT-ready network as we evolve to be a smart hospital of the future.”

LE Vuong Quy
IT Manager
108 Military Central Hospital

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