CASE STUDY

VARSITY APARTMENTS: ENHANCING WI-FI CAPABILITIES WITH NBN ENTERPRISE GRADE SOLUTIONS'

Project Summary

The Smile IT team have successfully completed a Wi-Fi modernisation project, significantly improving living conditions for Varsity Apartments residents through the delivery of high-speed, reliable internet connection.

The previous Wi-Fi system was outdated, causing slow speeds and frequent disconnections. Smile IT addressed these issues in a five-day project, where old infrastructure was replaced with a new state-of-the-art network. This resulted in high-speed, low-latency internet with unlimited bandwidth enabling data-intensive activities such as video streaming and online gaming.

Client

Varsity Apartments is a student accommodation located around the corner from the University of the Sunshine Coast. It provides purpose-built accommodation for students, housing around 500 residents in private four-bedroom apartments.

Problem

Varsity Apartments upholds high standards to ensure residents have access to modern and secure facilities. This commitment prompted them to upgrade their Wi-Fi system, which was struggling to meet the intense data demands of the university residents.

Key issues identified included:

- ✓ An outdated and unreliable 15-year-old Wi-Fi system

- ✓ Students were required to either purchase or bring their own routers

- ✓ Limitations on bandwidth usage, restricted to 50GB per user

- ✓ A total of 50 Mbps internet speed to service the entire site

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Solution

Varsity Apartments reached out to Smile IT for assistance in upgrading their complex Wi-Fi system. Smile IT proposed installing Wi-Fi across the apartments, aiming to simplify internet access and facilitate near-instant download and upload speeds.

Following our proven fast Wi-Fi project delivery model, Smile IT successfully completed the upgrade within five days.

The following was delivered:

- Installed access points in 99 apartments, servicing 396 rooms

- Replaced all routing and networking gear throughout the site

- Cleaned network cabinet and managed network cables

- Provisioned a 1G NBN Enterprise Ethernet (EE) service

- Implemented bonding service using a mix of NBN and 5G.

Smile IT, through its business telecommunications arm - SmileTel, was able to equip the premises with NBN Enterprise Ethernet. This high-performance premium internet service offers speeds of up to 1GB through the NBN, providing ultra-fast connectivity.

As the full deployment of the 1GB EE was not yet available, Smile IT temporarily implemented a bonded solution, combining NBN and 5G to provide high-capacity internet until the 1GB NBN EE was fully operational.

Results

Smile IT's successful implementation of the new Wi-Fi system has resulted in students having reliable access to high-speed, low latency internet services.

Key upgrades include:

Upgraded Internet Service

From 50 Mbps to 1G to the entire apartment complex.

Bandwidth Coverage

Unlimited bandwidth usage for residents.

Speed

Wi-Fi speeds reach 300 Mbps, compared to the 50 Mbps previously available.

To quantify these results, the new system is capable of supporting 200 HD Netflix streams simultaneously, a 20-fold increase from the previous limit of 10 streams.

These improvements have significantly enhanced students' ability to stream entertainment and perform data-intensive tasks, such as online gaming and research, without facing limitations.