Hewlett Packard Enterprise

UNIVERSITAS KATOLIK INDONESIA
ATMA JAYA

Objective
Upgrade the University network to integrate three campuses and improve student learning

Approach
Developed a project plan with HPE Networking, a long term supplier, a local HPE partner

IT Matters
- Simplifies management and maintenance of the network through one supplier
- Completes upgrade within agreed timescales with appropriate knowledge transfer to in-house team
- Guarantees lifetime of hardware, allowing IT budgets to be spent, with confidence, on new project

Business Matters
- Connects three campuses, with the means to add fourth campus
- Delivers the network strength to develop e-learning services

Atma Jaya Catholic University of Indonesia inspires a generation

HPE Networking creates connected learning experience for Indonesian students

Atma Jaya Catholic University of Indonesia has consistently focused on providing and improving quality education.

To deliver an effective learning environment it needed to upgrade its core network, linking three separate campuses. HPE Networking has designed, planned and implemented the upgrade.

Challenge

Education to drive a nation
Indonesia's population of 255 million has more than doubled in the last 40 years. That makes the world's fourth most populous country incredibly youthful: one quarter of Indonesians are aged 14 or under.

This presents the country with a huge challenge, and a huge opportunity. Rich in natural resources and on the doorstep of the Chinese, Japanese and Australian economies, Indonesia is well positioned to capitalise on regional growth – if it can tap into the potential of its young population.

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— Danny Natalies, head of IT, Atma Jaya Catholic University

The government ploughs $7 billion a year into education, and every child is guaranteed nine years education. Higher education has grown dramatically in recent years. In 1950, the year after the country established independence, there were just 10 higher education institutions in the country. Today there are more than 3,000.

Enabling the best universities to grow
In June 1952, the Bishops at an all-Java Bishops Meeting first dreamed of founding a Catholic institution of higher learning. The inspiration took form on 1 June 1960 with the establishment of The Atma Jaya Foundation. This institution later founded Atma Jaya Catholic University of Indonesia. Today, the University, located just south of Jakarta, caters for around 10,000 students across seven faculties. Since 1967, Atma Jaya gradually moved to the campus at Jalan Jendral Sudirman, now known as the Semanggi Campus, and then also to the Pluit Campus in North Jakarta which houses the Faculty of Medicine and Atma Jaya Hospital and; a third campus in BSD City, southern Jakarta, opens in 2017.

From an IT perspective, Atma Jaya Catholic University of Indonesia faces several challenges. It must meet strict government regulations on IT standards, in terms of facilities and broadband access, and, as a private institution, it must meet these without the aid of government funding. The University aims to grow to 25,000 students by 2020, and plans to add a fourth campus.

"For now, we want to integrate the three existing campuses. Students and staff should be able to share, communicate and collaborate from anywhere," says Danny Natalies, Atma Jaya head of IT. "We also want to put in place the infrastructure to enable remote, e-learning. Education providers have a role to play in bringing greater access to the internet for all Indonesians, not just those on the university campus."

Indonesia, spread across 17,000 islands, is a prime candidate for e-learning. Longer term, says Natalies, the University wanted to take advantage of opportunities within Cloud.

"We needed a solution that had an open platform, that was easy to configure and came with the lifetime guarantee," he explains. "This last point was critical. Having an open platform would allow us to add other devices – including students' own laptops and tablets. We also need the solution to be planned and implemented with minimum downtime. We don't have the resources to deal with implementation problems."

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Solution

Cost-effective, with lifetime guarantee

Hewlett Packard Enterprise has worked with Atma Jaya Catholic University of Indonesia since 2000, primarily on storage and servers. Natalies says HPE Networking was a natural starting point to discuss the necessary network upgrade.

"Our focus was never to find the 'best-in-class' solution," he says. "Sometimes the best products don't necessarily offer the best solution. For us, criteria such as cost-effectiveness and lifetime guarantee had to be considered. Maybe some of the more expensive products could not be offered with these extras.

"With HPE, the products selected to make up the solution passed the requirements set by the University – the servers and switches proved to be cost-effective and came with a lifetime guarantee. In addition, HPE provided official certification clarifying its products would not affect our medical equipment."

The HPE Networking solution centres on HPE 5406 and 2530 switches and the HPE S3010F Next Generation Firewall.

The proposal was developed in conjunction with local partner Mitra Integrasi Informatik. "They have been excellent," says Natalies of the local partner. "They were very open for discussion, and flexible when we made requests to change things. Also, they provided 24hour support although the contract only stated support in within office hours."

The core network was upgraded within four months, with full training for Atma Jaya running concurrently. "Our internal engineer didn't have experience with these particular HPE products, but HPE provided comprehensive training to reduce the amount of effort required in switching technologies. The switchover was seamless."

Benefit

Connected campuses, better student experience

"The implementation of the HPE Networking solution gives us a good foundation," says Natalies. "It provides a solid infrastructure and network, allowing all business processes, including communication and collaboration, to run in a new way. It creates a more efficient and faster environment."

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Customer at a glance

Hardware

- HP 5406R zl2 Switch 4 unit

- HP 2530-24G Switch 21 units

- HP S3010F NGFW Appliance 1 unit

- Server DL380 20 units

- Server ML350 10 units

- Server DL180 3 units

- C7000 2 units

- C3000 1 units

- Bl460 32 units

- P2000 4TB

- MSA 2000 5TB

- EVA 3000 8TB

- Integrity 7440 1 unit

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Atma Jaya is now able to integrate its three campuses, linking them together, making communication faster and more effective. It can plan with confidence the expansion to a fourth campus.

Being able to manage the entire network through one platform delivers the space and time to manage and allocate the budget to other IT projects required by the University. "It brings us closer to our vision of a multi-campus, connected university," says Natalies. "The security of the lifetime guarantee means we can invest the IT budget into new projects. Our budgets stretch further."

The University now has 2,000 data access points, up from 500 previously, with a 160MB internet connection. This exceeds government requirements and is considered high-performing by Jakarta standards.

"Clearly the biggest benefit is to our students. Students are benefitting from this upgrade on a daily basis," says Natalies. "But there are longer term implications. The upgrade benefits the reputation of the University and graduates leave with an expectation of what is possible given a good internet connection. Part of our remit is to show students the potential of modern technology."

He says the upgrade will transform the University's approach to teaching. Students will be able to participate in lessons whether they're in class or not, discussions with faculty can take place online, and the library of teaching material is extended. Natalies expects to see a 10-15 per cent reduction in teaching costs as the University reduces its paper and print bill.

"And we can deliver courses for those in Jakarta and across Indonesia," he says. "Students will be able to access coursework from anywhere in the country. The upgrade positions Atma Jaya as a leader in the university sector, with one of the academic campuses in Indonesia."

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