



UNIMAS graduates to ADC KRONE Fast, reliable communications at UNIMAS campus with ADC KRONE solution

CASE STUDY

Customer profile – Universiti Malaysia Sarawak (UNIMAS)

UNIMAS is the eighth public university in Malaysia and the first university in Sarawak, offering a unique environment for teaching, learning and research.

- The University opened its doors for the first time to 118 students and 30 academic staff in August 1993. Today, UNIMAS caters for 7,113 students with 1,795 staff.
- UNIMAS is located in Kota Samarahan, Sarawak, Malaysia (25 kilometres from the city of Kuching, the capital city of Sarawak).
- UNIMAS has won the Premiere Information Technology Award from the Malaysian Government, the “Bridging the Digital Divide” category of AFACT’s eAsia Award.
- The University has also won the Industry Innovators Award for System Development and Application from the US-based Society of Satellite Professionals International (SSPI), for its success in setting up a telecentre in the remote community of Bario, Sarawak, to assist the community in communication, education, e-commerce, health and government services.





Availability and resilience required

As a constantly-growing and highly technology-focused university, UNIMAS recognised a need to establish an integrated IT infrastructure throughout the campus in preparation for implementing high speed cable and wireless e-learning services.

The University campus comprises 14 buildings. The brand new Center for Academic and Information Service and the Chancellery and University House buildings were the main focus for the new cabling infrastructure. The new campus would need to link seamlessly with the old campus, which uses Category 5e cabling from various vendors as well as predominantly Cisco switches.

In the search for an appropriate solution, a number of criteria were established for the new IT infrastructure. These included choosing a cabling infrastructure that would: support emerging technologies for the next two decades; include a technology guarantee; and meet EIA/TIA standards. The solution would need to be provided by a reputable IT cabling manufacturer that provides end-to-end data, voice and video application solutions.

Above all UNIMAS demanded a highly available,

resilient, robust and secure infrastructure that would support the use of various IT applications in all sectors of education in all faculties within the University. Some of these applications include ERP and e-learning applications, an integrated library system, a student registration system, a video conferencing system, online electronic databases as well as campus-wide wireless access.

ADC KRONE solution delivers

Following approximately one year of product review, the project team settled on ADC KRONE's TrueNet® Category 6 UTP (Unshielded Twisted Pair) cabling and patch panel solution along with Singlemode and Multimode fibre.

ADC KRONE TrueNet® Category 6 UTP solution is the perfect choice for UNIMAS, providing them with unrivalled performance well beyond one Gigabit Ethernet;

ADC KRONE TrueNet® Category 6 patch panels, HighBand® patch cords, outlets, jacks and cable are impedance matched ensuring future-proofing for guaranteed maximum data throughput making it the preferred choice for UNIMAS.

Approximately 9,500 UTP Category 6 nodes were installed across the campus. The 14 campus



UNIMAS Data Centre

years into the future. And because Comserv is an ADC KRONE-certified installer, UNIMAS received the peace of mind of a 20-years system performance warranty. On top of the 20-years warranty, UNIMAS receives 5 years Zero Bit Error data throughput warranty

Because the infrastructure design is resilient and fully redundant, maintenance requirements have been reduced to a per-call basis with technicians able to be onsite within 15 minutes.

“Our ADC KRONE solution has delivered on its promise of a strong, reliable communications network that will fulfil our requirements for the next decade. Having a state-of-the-art, reliable system is important for UNIMAS because it allows us to maintain our well-deserved reputation for providing outstanding technology services to our staff and students,” said Professor Dr. Khairuddin Ab Hamid

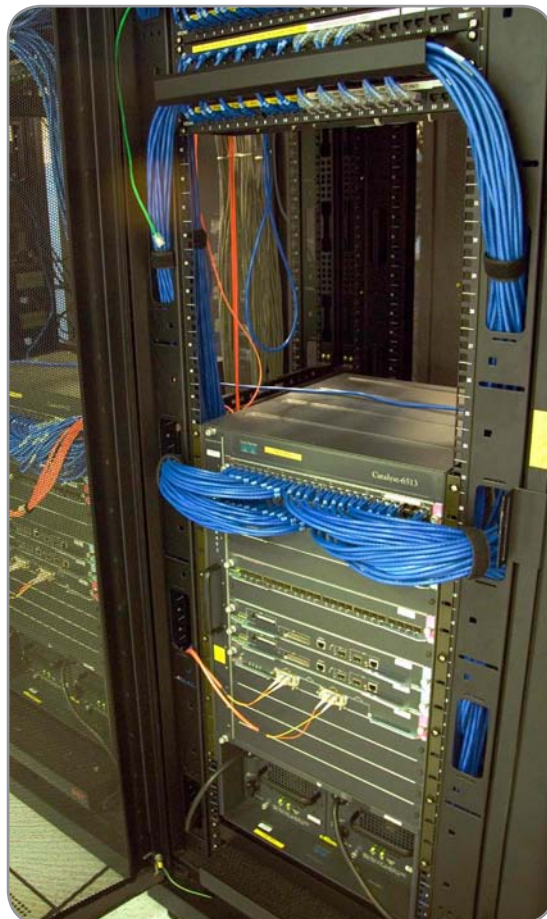
buildings are linked together through an intra-building underground tunnel facility using 12 and 24 core Singlemode 9/125um armoured backbone cable. The indoor fibre segments use 24 core tight buffer Multimode 50/125um OM2 fibre.

The optical fibre backbone segment at the Centre for Academic and Information Service consists of seven outdoor and five indoor segments, while the optical fibre backbone segment at Chancellery and University House consists of four outdoor segments and 10 indoor segments. The outdoor segments range in length from 850 metres to 5,200 metres.

Project goals achieved

The project took two years to complete from the start of the building works for the new campus to the user acceptance handover for IT services. UNIMAS worked with IT integrator IBM Malaysia and installer Comserv (Sarawak) Sdn Bhd to complete the project. The installation went smoothly with all aspects being completed on time.

The benefits of the new infrastructure were immediately apparent, with the University achieving its goal of a highly available, resilient, robust and secure infrastructure that would accommodate the University’s needs at least 10



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CASE STUDY

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SOUTH EAST ASIA

www.adckrone.com/sg

SINGAPORE 100 Beach Road #18-01 Shaw Tower, Singapore 189702

SINGAPORE

Ph: +65 6394 3800, Fax: +65 6297 5035

INDONESIA

Ph: +62 21 520 0231, Fax: +62 21 522 1312

PHILIPPINES

Ph: +63 2 848 9901, Fax: +63 2 848 9904

THAILAND

Ph: 662 512 3688, Fax 662 512 4747

MALAYSIA

Ph: +603 2615 0146, Fax: +603 2615 0147

VIETNAM

Hanoi: Ph: +844 934 3968, Fax: +844 934 3956

HCMC: Tel: (84-8) 8 219 225, Fax: (84-8) 8 219 181

ADC Telecommunications, Inc., P.O. Box 1101, Minneapolis, Minnesota USA 55440-1101

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