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Communications boost for Kuktem

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WORK on University College of Technology and Engineering Malaysia (Kuktem)'s RM9.7 million computerisation project has been completed, boosting the communications facilities at its campus in Kuantan, Pahang.

The project, which involved the installation of 10-gigabit Ethernet backbone, is believed to be the first true converged site in Asean, said Kuktem's head of ICT centre Wan Maseri Wan Mohamad.

She added that the project was part of the university's ICT master plan, which started since March last year over two semi-concurrent phases, and implemented by Avaya.

Wan Maseri said the first phase included the passive equipment installation or the structured cabling installation of fibre about 15 kilometres and about 3,900 UTP Cat6 nodes for both data and voice ports.

In the second phase, active equipment included a network with 100 switches, incorporating two 10-gigabit Ethernet switches; voice for supporting 700 phones, including 58 Internet protocol (IP) phones; and wireless with 255 an-



Kam: Able to operate in a paperless environment.

tennas were installed, she told *Computimes* on Tuesday.

"This massive infrastructure is developed to run several applications," she said, listing integrated management systems which consist of administration, human resource, finance, students and asset management modules, and the e-learning system which comprises online syllabus, online notes, online examination bank, online assignments, quizzes and examinations and online forum.

"We are also running several unique applications that are developed for the infrastructure like interactive voice response services and wireless local area network (WLAN) security authentication that

links to the student/staff/guest database, where the radius server collects all information from wireless user registration automatically," Wan Maseri said.

Other applications running on the system are 24x7 lecture scheduling, online students' elections, online facility reservations and Library-on-Server.

There is also e-community, which is a portal for all staff and student to access online applications, electronic mail (e-mail) and memos.

The portal also provides a single sign-on for all staff to access most of the applications.

Avaya Malaysia's country director Alan Kam said as a result of the project, the campus is now able to operate in an almost paperless environment as everything is done wirelessly on personal computers or notebooks.

The project involved the use of Avaya's Fast Ethernet, Gigabit Ethernet and 10GE modules, wide area network (WAN) module for connection to the Internet, View Network Management System, Policy Manager, Wireless Access Points and Wireless Cards, IP Connect System that supports analogue, digital and IP extensions, voice mail, IVR, and fibre and copper cabling.