Educating the doctors of tomorrow for the Telecommunications Industry Association

Customer
Duke Medical School

Country
Singapore

Opportunity
Install a first-of-its-kind Category 7 cabling infrastructure to create a next-generation campus network for Duke-NUS's new 24,000 square meter computational biology and genomics facility

Why CommScope?
• Best-of-breed network cabling infrastructure solution provider
• High-performance cabling systems for fiber and copper
• Scalable, future-ready 10 G/bs support

Solution
• TWIST 7AS Category 7a jacks
• 10 G/bs backbone
• SL termination tool

Duke University collaborates with Singapore on education

As part of an effort to make Singapore the biomedical hub of Asia, the government has rolled out an ambitious plan to accelerate development and attract research and health sector manufacturing capabilities to the republic. In addition, the country needed to develop highly-trained medical leaders to support the initiative, so the idea for an institutional collaboration between Duke University and the National University of Singapore (NUS) was born.

Duke University graduate-level medical education is now offered at the National University of Singapore. Duke-NUS required high speeds within building network services in order to serve a new computational biology and genomics facility and also to provide a backbone for routing A/V desktop displays to a central control and recording system. Building around a 1 Gb/s backbone would provide little expansion over the near term. Duke-NUS selected a 10 Gb/s backbone with Category 7 cable from the backbone to office locations, providing the potential for 10Gb/s to the desktop in the future.

"This whole installation was challenging," said project manager ZX Ng, of Century Technology. "TWIST™ 7AS Category 7a jacks were new for my team but with the SL termination tool from CommScope, we were able to significantly reduce termination time and ensure a high level of consistency over the more than 6,000 connections."

The requirements included support for the medical school, offering 24,000 square meters of space across eleven floors in a vertical campus, including the support of IP telephony systems and wireless access throughout the building. There are two server rooms and ten LAN rooms to support the IT demands of the students, faculty and staff.

PartnerPRO Network provider CPG was contracted to evaluate structured cabling infrastructure systems to support building requirements for today and over the next 10 years. CPG selected CommScope's high-performance cabling systems for fiber and copper, supporting today's requirements and tomorrow's applications with data rates of...
Everyone communicates. It’s the essence of the human experience. How we communicate is evolving. Technology is reshaping the way we live, learn and thrive. The epicenter of this transformation is the network—our passion. Our experts are rethinking the purpose, role and usage of networks to help our customers increase bandwidth, expand capacity, enhance efficiency, speed deployment and simplify migration. From remote cell sites to massive sports arenas, from busy airports to state-of-the-art data centers—we provide the essential expertise and vital infrastructure your business needs to succeed. The world’s most advanced networks rely on CommScope connectivity.

10 Gb/s and beyond. The entire network cabling was designed to be scalable and future-proof for the next decade. CommScope’s design and installation partner (NDI) handled the buildingwide cabling installation.

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ZX Ng, project manager
Century Technology

The right prescription for Duke-NUS

After more than two years of construction, the building was completed in November of 2008. The IT team was impressed by the highly fault-tolerant, future-proofed network cabling system installation. CommScope’s system is capable of supporting 10G and beyond, ensuring Duke-NUS Graduate Medical School will adapt to new network technologies and applications as they are introduced.

About Duke University and the National University of Singapore:

Located in North Carolina in the United States, Duke University is one of the world’s top institutions of higher education. Its graduate and professional schools in business, divinity, engineering, the environment, law, medicine, and nursing rank among the leaders in their fields.

A leading global university centered in Asia, the National University of Singapore (NUS), is Singapore’s flagship university. It offers a global approach to education and research with a focus on Asian perspectives and expertise.

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