

5000-km Information Super-highway for China

China Unicom subscribers can look forward to a ten-fold increase in their access data rates thanks to a faster information highway across the country. Nokia Siemens Networks is deploying a 5000 kilometer, 40 Gigabits per second, per channel, dense wavelength division multiplexing (DWDM) optical network for the operator. The technology paves the way for upgrades to 100Gbps across seven provinces: Chongqing, Hubei, Anhui, Jiangsu, Fujian, Guangdong and Guangxi.

The increased uptake of bandwidth-hungry applications requires capacity upgrades in the backbones of China Unicom's networks to maximize subscriber experience. Nokia Siemens Networks' DWDM network will prepare the operator to handle future IP traffic growth while reducing the number of sites and keeping control of its costs.

"As one of the largest network operators globally, China Unicom understands the importance of investing in the latest technology," said Markus Borchert, head of Greater China region at Nokia Siemens Networks. "Our 40G DWDM system will ensure a longer life cycle for China Unicom's network by increasing its network capacity to handle data traffic growth. In fact, since CP-QPSK* technology is being used for the first time in China, it will act as a new benchmark for enhancing transport performance and end-user experience."

Nokia Siemens Networks is providing its hiT 7300 DWDM system with industry leading 40G transponder technology that allows continued use of installed fiber infrastructure. Based on CP-QPSK modulation format, hiT 7300 DWDM system with dispersion compensating modules free transmission*, enables lower latency and offers a rapid, cost effective transition to 100G technology. Moreover, Nokia Siemens Networks will provide its network management system coupled with services such as network implementation, commissioning and maintenance.

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