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Mr Chen,
IT Director of Wuhu 2nd People's Hospital

Wuhu 2nd People's Hospital Manages Network Physical Layer with CommScope®

6,000 outlet network includes SYSTIMAX GigaSPEED® XL copper and LazrSPEED® fiber to the desk connections

Construction of two additional buildings at the 2nd People's Hospital of Wuhu, Anhui Province China, will make it one of the largest medical facilities in the region. The new complex consists of a 24-floor tower and a 5-floor podium building totalling 1,100,000 square feet. This US\$64 million project will provide a new out-patient department, medical technology clinic and in-patient department.

The complex will also include the one of the largest SYSTIMAX iPatch installations in the China healthcare sector. With 6,000 information outlets, the network managed using the iPatch System will support vital hospital information and medical image archiving systems. Other key applications depending on the network include clinical information, telemedicine, communications and radiology information systems.

The new network infrastructure and its management system have to meet several key requirements. They must support advanced clinical and research systems giving fast, reliable access to data and images. At the same time, they have to be easy to manage and give the flexibility to move or change services without need for re-cabling.

“We chose SYSTIMAX Solutions for our network infrastructure because of their global reputation for high performance, reliability and customer support,” said Mr. Chen, IT Director of Wuhu 2nd People’s Hospital. “CommScope has many SYSTIMAX reference sites in China and the iPatch System is widely used here - including in successful healthcare sector applications.”

The hospital specified SYSTIMAX iPatch intelligent copper patch panels and fiber optic shelves for its new network to give IT managers a clear view of the physical layer. As part of the iPatch system, the intelligent panels and shelves enable real-time monitoring of network infrastructure and eliminate blind spots.

Operational benefits of the iPatch system include automatic generation of change instructions for technicians. The re-patching information is displayed on-screen in the cabinets where the work is being done. Lights on the panels also show technicians where to make the correct connections.

Managers can monitor the progress and accuracy of network moves, adds and changes from their own offices. The system also ensures that records of network connections are always up to date and alerts managers to any unauthorized changes to the network.

“Using iPatch, we can ensure a high level of network security and availability,” said Mr. Chen. “And, by delivering information to managers and technicians when and where they need it, the system also improves productivity in the IT department.”

During the installation, CommScope and its local BusinessPartner, Enjoyor Electronics, faced some special challenges. They had to ensure there was no interruption to existing hospital systems on which the wellbeing of patients depends. The high bandwidth and reliability required by the hospital information network had to be maintained throughout the project. To achieve this, it was vital to avoid errors and have effective contingency plans in case of unexpected events.

A team of nearly 30 people worked meticulously on designing, planning and installing the new infrastructure. During the project, they installed more than 5km of LazrSPEED 150 fiber, including fiber-to-the-desk connections via M81 series modular fiber optic adapter modules, and 3kms of LazrSPEED 300 trunk cable in the network backbone.

The laser optimized LazrSPEED multimode fiber cable can support 10Gb/s data transmission over distances up to 300m. Its performance easily meets the OM3 fiber standard and it can do this without need for expensive electronics.

The hospital's network backbone connects 42 communications rooms throughout the new complex. From these rooms, horizontal copper and fiber cables connect to the 6,000 information outlets.

For copper connections to information outlets, the hospital chose the SYSTIMAX GigaSPEED XL Solution. This exceeds specifications of the Category 6 /Class E international standard, supporting data transmission speeds to 1Gb/s over a 100m channel with four connectors. In total, the team used more than 380km of this cabling.

Within the comms rooms, the team installed 267 iPatch 24-port GigaSPEED XL intelligent patch panels. For fiber connections, they installed 53 iPatch 24-port duplex LC intelligent fiber shelves. Both the copper and fiber panels are monitored via 30 iPatch Rack Manager Plus units.

For LazrSPEED fiber outlets, the team installed SYSTIMAX M81 series modular fiber optic adapter modules. This faceplate and outlet is specifically designed for fiber optic installations.

Commenting on the People's Hospital project, Laura Chen, Regional Sales Director of Greater China, CommScope Enterprise Solutions Division said: "This is a highly complex infrastructure that has to support heavy data traffic including imaging, video and audio information. It has to combine high performance and reliability with ease of maintenance and management.

"Using our SYSTIMAX portfolio we could deliver an integrated, end-to-end solution – including iPatch for monitoring and managing the operational network. All the solution's components are designed to be compatible and manufactured to the same high standards.

"To give the user even greater confidence, the completed installation is supported by fully trained local BusinessPartners and backed by CommScope's industry leading 20-year guarantee and application assurances."



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