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Enabling the network of the future: CommScope helps Zhongshan Securities transform network operations with high-density solutions

Connecting the future—state-of-the-art networking at Zhongshan Securities

For companies in the financial services industry, having a secure, state-of-the-art network is essential. Zhongshan Securities is a securities trading company based in Shenzhen, China, with 80 branch offices around the country. The company specializes in retail brokerage, investment banking, asset management, internet finance, and securities investments.

2015 saw more than 700 million Chinese citizens online and, according to the China Internet Network Center, online stock trading tool use grew 54 percent—and online payments increased by 37 percent. It is an industry on the rise.

Financial services companies in China do, however, rely on a strong, secure network and a technical backbone that helps them take innovative solutions and services to market. Zhongshan Securities, for example, won the "Most Popular Internet Finance Product 2014" at China's Top Financial IT Innovation Awards and was named "Outstanding Electronic Securities Company

for Internet Finance in 2015" at the second Golden Internet Awards organized by Shanghai Securities News in 2015. It also received STCN's "Most Thoughtful Securities Trading Company of 2016" award, won "China Excellent Investment Bank Trophy 2017," "China Breakthrough Bonds Investment Bank Trophy 2017," and "China New Three Board Market Maker Trophy." To continue developing these kinds of pioneering solutions, a cutting-edge network is required.

Creating reliable in-house infrastructure

The challenges for CommScope on the Zhongshan Securities engagement covered several areas. Zhongshan Securities needed a network that could support its existing complex service delivery mechanisms and advanced technologies, but also scale to support future operations.

The first challenge was that of high density. To satisfy business development needs, Zhongshan Securities rented more than
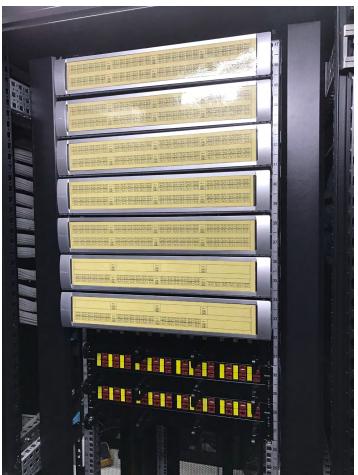
100 server frames at a professional IDC, which served as the data center for the company's messaging system. This infrastructure was required to support Zhongshan's network of more than 80 branches around the country, which, between them, manage more than RMB 200 billion (approximately US $30 billion) worth of assets, plus hundreds of billions' worth of bond operations.

Further challenges occurred in terms of safety and security; in the financial services sector, fire-proofing is an important requirement. Also, ease of use and simplicity of management of the systems were key factors.

World-class network to power world-class financial solutions

CommScope specified its M4800/M4800A high-density copper cable modular panels. The panels are designed to support 1U-48 terminals and SYSTIMAX® Category 6/Category 6A cabling and can be installed at any angle—making them flexible and adaptable— and are primarily configured for modular copper applications. The M4800 panels allow accessibility via the front or rear and their flexible design lets installers add outlet ports as and where required. It supports 48 terminals without requiring a horizontal cable management unit and can be seamlessly upgraded to GigaSPEED® X10D® Category 6A 10 Gb performance.

CommScope working closely with partners

During the Zhongshan Securities project, CommScope demonstrated its ability to work productively and effectively with partners to deliver on the client's needs. From day one of the project CommScope worked with the system integrator—Shenzhen Sysway Information Technology Co., Ltd.—to understand the wiring layout design and planning and subsequently help Sysway with installation, optimization, testing and acceptance of the newly installed system.

CommScope also worked closely with site proprietor Dr. Peng Group, working with their project site manager to ensure all work and staff met compliance with IDC regulation.

Helping power next-generation financial services solutions

Additionally, CommScope specified its state-of-the-art design SYSTIMAX modular fiber shelf, which comes complete with bend restrictors integrated into its cable management bracket slots to give maximum interior space. The rack's height means it can support 48-core LC density and, thanks to the SYSTIMAX fiber shelf not having cabling taking up any internal space, it can conveniently manage optical cables and wire jumping. The distribution frames also help companies save 50 percent of the space in their existing rack units, and the racks also support seamless upgrade to MPO preterminated optical cable connection systems.

Furthermore, and with reference to the need for fire-retardant systems in the financial services industry, CommScope also specified LSZH cable sheaths, which are designed using highly flame-retardant materials that adhere to global standard IEC60332-3. All LSZH sheaths are BRE lab tested and compliant with IEC60332-3 regulation.

CommScope worked with Zhongshan Securities to design and implement a high-density solution that would meet their needs and help them serve customers both now and in the future.

The project was a success thanks to several key factors:

1. CommScope helped Zhongshan fully understand the benefits of high density and how its ease of maintenance would help them.

2. CommScope also communicated the importance of putting cabling and wiring in place now that can be easily scaled up according to future demand—thereby saving the client time, money and disruption in the future.

3. The attention to detail during the project's design phase ensured minimized changes during the project's implementation.

4. The early-stage design CommScope put in place helped the project go smoothly.

CommScope pushes the boundaries of communications technology with game-changing ideas and ground-breaking discoveries that spark profound human achievement. We collaborate with our customers and partners to design, create and build the world's most advanced networks. It is our passion and commitment to identify the next opportunity and realize a better tomorrow. Discover more at commscope.com

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CU-111904.2-EN