

CommScope data center infrastructure solutions help bring comprehensive 24/7 banking services to urban and rural China



Customer

Wuhan Rural Commercial Bank

Country:

China

Modern global banking is driven by data. So, when a fast-growing bank in China's rural Wuhan Province needed to upgrade its data center capabilities, it turned to CommScope for a reliable, future-ready network cabling solution.

Wuhan Rural Commercial Bank (Wuhan RCB) was established in 2009 as China's first rural commercial bank in a sub-provincial city. Headquartered in Wuhan City, the bank is a local banking institution with first-grade corporation certification, managed directly by the city committee and city government.

Wuhan RCB currently has more than 200 business outlets throughout the urban and rural areas of Wuhan Province. The bank's total assets have grown from the initial ¥54 billion when it was first established to its current total assets of more than ¥200 billion. Wuhan RCB's funds totaled ¥46.8 billion at its inception and now exceed ¥150 billion; its total loan amount has now increased to almost ¥100 billion from the initial loan amount of ¥29.6 billion. All the above amounts have tripled since the bank was founded.

Wuhan RCB offers a wide range of banking services, including deposits, loans, international banking, exchange, purchase



and sale of bonds, bank card and debit card services, payment processing, insurance, and other businesses approved by China's banking regulatory and management agencies.

A local bank responds to global banking trends and challenges

The increasing integration of global finance and rapid development of information technologies have placed demands on the Chinese banking industry to provide more secure, more reliable and more accessible financial services. In addition, as electronic banking continues to expand, commercial banks like Wuhan RCB have become increasingly dependent on information systems.

“As the application of fiber optics in data centers becomes more prevalent, CommScope’s ability to provide comprehensive fiber solutions will be key to serving the data center market in China and around the world. Data center operators will continue to demand cutting-edge technologies and it is critical for both our company and our customers to maintain a forward-looking perspective on the solutions we provide.”

Laura Chen,
VP, Enterprise Sales, North Asia, CommScope.

To implement central management of banking information, lower IT costs, control financial risks, increase service quality and improve the bank's competitiveness, Wuhan RCB decided to construct a new data center at its facility in the Jiangxia District of Wuhan City in 2016. At the same time, to improve business continuity and prevent operation disruptions, the bank also added the "Wuhan Economic Development Zone Disaster Recovery Data Center," a disaster recovery data center in the Wuhan Economic Development Zone.



Since the two data centers would play such a critical role in its banking businesses and operations, Wuhan RCB could not afford to take risks in designing and deploying its network infrastructure. Because of its extensive experience in deploying applications in the financial sector across China and around the world, CommScope was selected by the bank to provide the data center cabling infrastructure.

CommScope delivers a comprehensive infrastructure solution

To accommodate large quantities of server data, important stored data and critical applications, the Wuhan RCB data center houses a large array of optical fiber connections in a high-density modular system. CommScope developed a solution that addresses key challenges around the density and management of the cabling, including:

- Saving rack space in the power distribution cabinets and main distribution cabinets where large amounts of cables converge
- Storing and routing large amounts of fiber-optic cables
- Facilitating follow-up maintenance and management

The Jiangxia main data center houses close to 715 racks; the Wuhan Economic Development Zone Disaster Recovery Data Center houses 300 racks. Both data centers are equipped with CommScope's SYSTIMAX® Category 6A gigabit shielded copper cabling systems, OM4 preterminated MPO optical fiber cabling systems, and FiberGuide® optical fiber trays. This solution not only provides ultra-high density, but also includes a vertical cable management system, and nonstandard cabinet-top cable distribution—all designed to simplify cabling management and maintenance.

The combination of Category 6A gigabit shielded copper cabling and OM4 preterminated MPO optical fiber cabling not only provides end-to-end 10G access capabilities, but also enables 40G/100G rapid upgrade capabilities in the future. Specifically, CommScope's 24-fiber MPO preterminated cabling provides complete support of 10G/40G/100G network applications while maximizing the use of all optical fibers to satisfy the bank's demand for highly cost-effective and forward-looking designs.

Because fiber is more fragile than copper cables, pressure, twists and tension can affect their transmission capabilities—and traditional hanger cable trays are unable to protect optical fibers effectively. CommScope's FiberGuide optical fiber trays provide maximum protection for optical fiber and routing management, as well as comprehensive protection for critical applications.

Faster installation and optimized density save time, space and money

The CommScope data center solution has provided a number of time-, space- and cost-saving benefits to Wuhan RCB:

- The 24-fiber MPO preterminated solution reduced installation and testing time an estimated 90 percent compared to traditional methods



- The vertical cable management system, installed in standard cabinets, did not require any horizontal space—increasing the density of power distribution cabinets and main distribution cabinets by approximately 80 percent

In addition, since network security and reliability are dependent largely on the performance of the physical cabling system, the CommScope solution provides a stable and reliable foundation that supports Wuhan RCB's dispatch, communication and data network. This enables the corporate business system to operate at high efficiency and provide high-quality service to the data center.



Ready today to meet tomorrow's data center demands

Because Wuhan Rural Commercial Bank is committed to staying ahead of developing trends in banking technology, it required the products used in its data center to not only meet current network application requirements but also be able to accommodate quick and stable upgrades in the future. CommScope's solution is ready for the explosive demand for network bandwidth driven by cloud computing in the years to come, and can also be upgraded smoothly to parallel transmission from the current serial transmission.

"As the application of fiber optics in data centers becomes more prevalent, CommScope's ability to provide comprehensive fiber solutions will be key to serving the data center market in China and around the world," said Laura Chen, VP, Enterprise Sales, North Asia, CommScope. "Data center operators will continue to demand cutting-edge technologies and it is critical for both our company and our customers to maintain a forward-looking perspective on the solutions we provide."

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.



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