

“In the upheaval of China’s stock market, the UCP solution’s remarkable cost control enables us to plan more effectively for the future.”

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## Hitachi Converged Solution Transforms IT Infrastructure, Reduces Costs and Improves Customer Service for Huaxi Securities

Huaxi Securities Co., Ltd., the largest securities company in West China with approximately 3,000 employees, provides the asset management with a total value of nearly RMB 200 billion for customers. The company was one of many organizations affected by the downturn in China’s Stock Market and, like most industry companies, it froze spending on IT. However, as the market started to recover in 2013, Huaxi Securities began to get ready for new market growth, and this meant replacing its out-of-date infrastructure and transforming from a physical to a virtualized environment. To make this transition, the company relied on Hitachi Unified Compute Platform for VMware vSphere (UCP for VMware vSphere).

### The Challenge

The Huaxi Securities IT infrastructure is spread across five data centers, including one in Shenzhen Stock Exchange, one in Shanghai Stock Exchange, two hosted by operators in Chengdu, and one self-built in Beijing R&D Server Room. Customer requests are transferred via the Internet to Huaxi Securities from the server room in Chengdu. They reach the server room in Shenzhen and Shanghai via a dedicated network for securities trading, and they are sent to the stock exchange to complete final trading. All

core data of Huaxi Securities are stored and distributed in the two server rooms in Chengdu, which fail over to each other for disaster recovery. All core business data is stored in the hosted facilities in Chengdu.

Maintaining costs is vital in this highly competitive market. Huaxi Securities implements very strict cost control in all its projects, and was listed in the top three of the Cost Control Ranking by China Securities Regulatory Commission. With floor space and electricity at a premium in the data centers, in part due to



### Huaxi Securities Co., Ltd.

#### INDUSTRY

Securities and Futures

#### SOLUTION

Hitachi Unified Compute Platform for VMware vSphere

#### HARDWARE

Hitachi Virtual Storage Platform  
Hitachi Compute Blade 500

#### SOFTWARE

Hitachi Command Suite, Hitachi Dynamic Provisioning, Hi-Track Remote Monitoring system

#### SERVICES

Implementation services provided by Hitachi Data Systems Global Services Solutions

### Benefits at a Glance

- Achieved strict cost control.
- Accelerated real-time information analysis.
- Optimized use of floor space.
- Simplified management.

the increasing number of Internet companies leasing the same centers, the new infrastructure had to fit within a very restricted space and had to be energy efficient.

The Huaxi Securities IT infrastructure was built on the principle of providing their customers with the “most secure and most convenient” transaction channel. In the financial services market, it is essential to have an infrastructure that customers can trust and that is reliable for the end user. Compromising quality for price was never an option. The new infrastructure still had to provide the performance to manage high quantities of data and support future growth.

## The Solution

Transforming from a physical to a virtualized environment represented a significant change for Huaxi Securities, so the company sought a vendor it could trust to help them implement this change.

After careful consideration and extensive testing, Huaxi Securities choose to implement Hitachi Unified Compute Platform for VMware vSphere. The configurations included 12 Hitachi Compute Blade (CB) 500 chassis, with 96 CB520H blade servers to support server virtualization. Four CB 500s were deployed in each of the three data centers. The blade servers work with the previously installed Hitachi Virtual Storage Platform and DCX pilots implemented to support VMware. UCP for VMware vSphere now runs most of the company’s services.

The new architecture was deployed within a month, half of which was spent on testing to determine the energy consumption and power reconstruction. HDS helped Huaxi Securities evaluate and define the power requirements of various workloads and find the most appropriate solution for power reconstruction. To simplify management, Huaxi Securities installed Hitachi Storage Provider for VMware vCenter and Hitachi Storage Plug-in for VMware vCenter. This allows for simplified management of all the devices in the solution. Plus, to ensure consistent operation, Huaxi Securities also deployed Hi-Track Remote Monitoring system on Virtual Storage Platform.

## The Benefits

### Improved Service for Huaxi Securities Customers

The transformation from a physical to a virtualized environment was significant for Huaxi Securities. Through this transformation, the company can respond faster to the demand of the business departments, and deploy new big data business more quickly. By accelerating real-time information analysis, customers can obtain the information required for trading more rapidly, and experience better, more efficient trading.

### Space and Cost Savings

By deploying Hitachi UCP for VMware vSphere, Huaxi Securities not only improved the computing performance of individual

servers, but it also deploys more servers in the same footprint. In a single rack, the company increased its servers from 12 physical to 24 virtual. As the business volume multiplies, Huaxi Securities will not have to increase the amount of space it leases in the server room. As a result, the company can achieve substantial cost savings of approximately US\$100K per year in rent, now and in the future. Hitachi Dynamic Provisioning software further allows Huaxi to better utilize its storage, and makes the storage space planning and usage simpler and more efficient.

With CB 500, the power consumption can be adjusted automatically, depending on the individual applications in use, allowing greater flexibility and ability to maintain tight control on costs. “UCP was the ideal choice to ensure secure and stable business operations with minimum energy change,” says Mr. Nong Chen, purchase specialist, General Team, Information Department at Huaxi Securities.

Huaxi Securities is now better positioned to adapt to changes in this market and is continuing to look to the future, confident in its Hitachi solution to support the company and its customers. “In the upheaval of China’s stock market, the UCP solution’s remarkable cost control enables us to plan more effectively for the future,” concludes Mr. Chen.

## Hitachi Data Systems

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