



“With the Hitachi Data Systems solution, two systems could now be accessed by different business requests and not affect each other. In addition, the analysis data copy could now be updated more frequently.”

*Baoying Fund Management Limited*

## Baoying Fund Management Limited

**INDUSTRY** Banking and Finance

**SOLUTIONS** *Virtualization and Enterprise Platform*  
**Hardware** — Hitachi Universal Storage Platform® VM  
**Software** — Hitachi ShadowImage® Heterogeneous Replication

## Baoying Fund Management Limited Builds Advanced Data Center on Hitachi Enterprise Storage

Founded in May 2001 with a registered capital of RMB 100 million, Baoying Fund Management Limited (Baoying) was registered in Shenzhen, where it launched its securities investment fund and fund management business. As its business grew, the IT environment became more complex and business and regulatory requirements increased. Hitachi Data Systems helped Baoying answer these challenges with a storage virtualization solution that consolidated and simplified its IT environment.

Baoying is one of the first fund management companies established according to the new standards set by China Securities Regulatory Commission (CSRC), entitled "New Governance Structure, New Internal Control System." Since its inception, the company has maintained a clean slate with no disciplinary offenses or delinquent behaviors. Various routine CSRC inspections also consistently recognized the company's efforts towards business excellence.

Baoying's parent company, the China Railway Group Limited (China Railway), is a large enterprise group with diverse operations, including surveys, design, construction, industrial manufacturing, research consultancy, project supervision,

capital business, foreign business and foreign trade. As a central government enterprise, it is supervised by the State-owned Assets Supervision and Administration Commission of the State Council (SASAC). In 2007, China Railway was ranked 342 in the Fortune® Global 500 companies, listed 16 in the World's 500 Most Influential Brands and ranked number 10 in China's Top 500 Enterprises. The brand is now valued at RMB 52.312 billion.

### IT Growing Pains

After a few years of business development, the IT environment within Baoying became more complex, with a notable increase in the number of business systems. In

addition, the new business and regulatory requirements exerted new demands on the IT systems and Baoying's service standard. In order to meet these new demands, the IT management team in Baoying became convinced that they needed a high quality data center.

### Storage Needs

Baoying maintained a large number of individual business systems, each with its own isolated storage systems. Storage administration became very complicated and legacy backup operations were not sufficient to service these systems. Also, different systems used different interfaces with their storage.

Baoying began to look for a new data center that would address all these complications. The data center would need to:

- Consolidate all the storage systems and standardize the interfaces to all the business systems
- Standardize and simplify the management for all the business systems and improve the security level for these systems
- Meet the company's various development requirements
- Provide a secure and stable IT environment for business operations
- Be able to accommodate future growth



"Universal Storage Platform VM also provides the highest tier storage space for production business data. The data in the existing storage system can be migrated to the Universal Storage Platform VM to enhance the performance of the current business systems."

*Baoying Fund Management Limited*

## The Hitachi Data Systems Solution

After taking into account the business characteristics and IT requirements of Baoying, Hitachi Data Systems proposed its unique virtualization technologies to build a consolidated storage platform that would protect Baoying's current storage investment. The new storage platform would be high performing, highly available and highly scalable in order to enhance the processing power and the reliability of their business systems.

Traditional storage has closed architecture and usually creates islands of storage. These islands of storage do not allow ways to share storage space and data; therefore, utilization levels are usually low and valuable storage space is wasted. It is also very difficult to manage disparate systems with a single management platform.

As technologies evolve, an increasing number of storage providers offer virtualization as a solution to overcome traditional storage issues mentioned above. Storage virtualization can provide a flexible storage infrastructure that allows data to be stored in different storage areas based on specific business needs at different times. The virtualization infrastructure can utilize existing storage for investment protection and it can provide a consolidated storage management environment.

## Implementation and Benefits

Understanding Baoying's business needs, Hitachi Data Systems proposed using the most mature virtualization technology in the industry for the new Baoying data center project. The two major components of the solution were Hitachi Universal Storage Platform® VM and Hitachi ShadowImage® Heterogeneous Replication software.

The Universal Storage Platform VM provides the virtualization platform. All the existing storage can be consolidated

under the management of the Universal Storage Platform VM to ensure full investment protection for the customer.

The Universal Storage Platform VM also provides the highest tier storage space for production business data. The data in the existing storage system can be migrated to the Universal Storage Platform VM to enhance the performance of the current business systems. After migration, the existing storage system can be used as second tier disk-to-disk backup storage for the Universal Storage Platform VM storage framework.

For its data cloning needs, Baoying can now use the ShadowImage Heterogeneous Replication software in Universal Storage Platform VM to clone the data from the Universal Storage Platform VM to the existing storage system based on business needs.

The cloned data copy serves as a local backup copy as well as a nearline copy for data analysis. This allows a separate copy of data for analysis, which will not interfere with the production data. In other words, the two systems can now be accessed by different business requests and not affect each other. In addition, the analysis data copy can now be updated more frequently by using the incremental copy feature of the ShadowImage software. This improves the generation and effectiveness of the analysis data.

 **Hitachi Data Systems Corporation**

---

**Corporate Headquarters**

750 Central Expressway  
Santa Clara, California 95050-2627 USA  
[www.hds.com](http://www.hds.com)

**Regional Contact Information**

**Americas:** +1 408 970 1000 or [info@hds.com](mailto:info@hds.com)  
**Europe, Middle East and Africa:** +44 (0) 1753 618000 or [info.emea@hds.com](mailto:info.emea@hds.com)  
**Asia Pacific:** +852 3189 7900 or [hds.marketing.apac@hds.com](mailto:hds.marketing.apac@hds.com)

Hitachi is a registered trademark of Hitachi, Ltd., in the United States and other countries. Hitachi Data Systems is a registered trademark and service mark of Hitachi, Ltd., in the United States and other countries.

All other trademarks, service marks and company names in this document or website are properties of their respective owners.

Notice: This document is for informational purposes only, and does not set forth any warranty, expressed or implied, concerning any equipment or service offered or to be offered by Hitachi Data Systems Corporation.

© Hitachi Data Systems Corporation 2010. All Rights Reserved. SS-204-C DG April 2010