

Bank's diverse portfolio of data assets demands unified, automated protection.

OVERVIEW

Minsheng Bank partners with Veritas™ for secure operations with the unified data protection platform

Founded in 1996 with the motto of "Sincerity Leads to Success", China Minsheng Bank is China's first joint-stock commercial bank initiated and established mainly by non-state-owned enterprises. It is headquartered in Beijing, with operations nation-wide. Over the past 22 years since establishment, it has grown into a large-scale commercial bank with total assets of more than RMB5.9 trillion, nearly 3,000 branches, and around 58 thousand employees.

China Minsheng Bank ranked No. 29 on the Worlds' Top 1,000 Bank list published by Banker magazine of UK last year. On the Fortune 500 list last year, China Minsheng Bank ranked No. 251.

Minsheng Bank launched comprehensive transformation in 2015, innovatively applying leading edge technologies in financial services to power continuous development. With the innovative development of financial technologies, Minsheng Bank continues to embrace new opportunities and overcome the challenges brought by digital transformation, where a robust all-in-one data protection platform forms the key foundation. With Veritas offerings, the organization's IT team can ensure business continuity and critical data protection, as well as real-time data recovery in case of accidents. These capabilities enable the organization to meet regulatory and compliance requirements.

COMPREHENSIVE DATA PROTECTION FOR A SECURE BUSINESS

In recent years, new technologies such as cloud computing, block chain and big data has brought about tremendous impact to the traditional operation models of the financial services industry. Technology is no longer just a means of e-finance and cost reduction, but also a core impetus for business development and innovations. Minsheng Bank is no exception.

Looking back into the history of Minsheng Bank, it is obvious that data protection has always played a central role in the evolution of its information system. Both in the new core construction (2007-2013) stage and during the



ORGANIZATION PROFILE

Industry: Financial Services

Headquarters: China

KEY CHALLENGES

The IT team must strictly abide by the data protection requirements, improve data quality, make maximum use of data, to ensure smooth business operations in order to:

- Meet business and regulatory requirements
- Meet cross-environment data management requirement and eliminate complexity
- Achieve high data backup success rate with rapid data volume growth
- Realize unified management across the organization, system openness and cost reduction

SOLUTION

- Veritas NetBackup™ software
- Veritas NetBackup Appliances
- Veritas OpsCenter platform
- Veritas Consulting Services
- Veritas Business Critical Services

BENEFITS

- Unified data protection platform covering 6 primary backup domains, multiple tape libraries, supporting thousands of backup policies
- Safeguarding business operations with unified data protection platform covering three data centers in two cities
- Backup success rate is up to 99.42%
- Local/remote replication of backup data is realized for dozens of critical systems
- Full coverage of recovery validation of production system database
- The platform supports backup report customization, unified management and scheduling of multiple backup domains

transformation of technology (2014-present), Minsheng Bank has built complete data protection policy and methodology for secure business operations. To date, the organization's average daily data backup volume has far exceeded 200TB. The overall system has achieved a very high level of robustness and stability.

Data is at the core of banking business, with a particular trend in the substantial growth of unstructured data. Digital banking such as mobile banking and online service has become the norm, various data types including images are saved. The data volume accumulated has been phenomenal. "Data explosion is inevitable. Data accumulation basically follows a "only-in-not-out" model. The IT team must strictly abide by the data protection requirements, improve data quality, make maximum use of data, to ensure smooth business operations." said Hu Jiming, Senior Project Manager of IT Department, China Minsheng Bank.

Hu Jiming believes that the goals and challenges of the data protection platform in Minsheng Bank mainly focus on the following aspects:

Firstly, to meet business and regulatory requirements. Regulators apply strict data protection rules in the banking industry. Specific standards of data retention and media storage location are implemented for different levels of business systems. Replication of remote backup, and local and remote disaster recovery are just two examples of the regulatory requirement for core banking system data. Remote backup data must be restored in a timely manner in the event of crisis for local data.

Secondly, the platform should meet cross-environment data management requirement and eliminate complexity. Like most financial institutions, Minsheng Bank has branches all over the country, and data is distributed in multiple data centers. It is imperative that the backup data of remote centers is also complete. Meanwhile, due to diverse network and workload types, the backup system shall ensure that backup jobs run smoothly while maintaining the original architecture and balance the backup data traffic to avoid disrupting the production network. The diversity of data types also presents challenges for back up.

The platform must be highly robust and scalable to meet high standards of back up success rate in an environment of large data volume and its rapid growth. Moreover, global unified management, technology openness (backup system's connectivity with cloud and object storage, transition from traditional D2D2T to D2D2C), cost reduction and efficiency improvement (system construction, operation & maintenance costs) are important objectives for data protection of Minsheng Bank.

UNIFIED DATA PROTECTION PLATFORM: SAFEGUARDING BUSINESS OPERATIONS WITH "TWO CITIES, THREE DATA CENTERS" DISASTER RECOVERY STRATEGY

With the above goals and challenges in mind, Minsheng Bank chose Veritas NetBackup™ software, appliances, OpsCenter and Cloud Catalyst to build the NBU unified data protection platform covering three data centers in two cities.

Firstly, backup data is securely transferred across multiple data centers, compliance requirements are met while backup jobs are successfully performed. Multiple backup domains in three centers in two cities form a unified backup architecture.

Secondly, with the disk backup technology of the appliances the system supports deduplication, scheduled backup and disk backup to significantly reduce backup time and improve efficiency. The transfer of local or remote backup data can also effectively save bandwidth to further lower cost. For example, the backup data transfer rate between Minsheng Bank's main data center in Beijing and the remote Disaster Recovery Center in Zhengzhou is only 150 Mb/s. By now, the remote transfer of backup data for dozens of systems has been

"Now in addition to backing up traditional database, we also need to process backups for physical & virtual machines, as well as cloud data, big data, and open source databases. Therefore, enterprise-level backup products should be able to meet the backup requirement of different types, different data, and different policies to realize unified protection. The Veritas solutions share the same architecture and provide data visibility from a single platform. The system is highly automated to minimize the threshold of data protection applications in complex environments and secures IT and business operations."

Hu Jiming

*Senior Project Manager, Information Technology
Department, China Minsheng Bank*



successfully completed by using the narrowband data transfer synchronization method.

In addition, unified management and scheduling, including monitoring and alert, across the multiple backup domains in the three data centers in two cities is now possible with the new platform. The platform also supports report customization for backups. Therefore, companies can effectively customize the reports required by the regulatory authorities with the OpsCenter (Control Center) platform, making presentations much easier.

With Veritas solutions, Minsheng Bank's system has now reached the scale of dozens of petabytes of data, with the unified data protection platform covering 6 master backup domains, multiple tape libraries and thousands of backup policies. The result: local/remote replication of backup data of dozens of critical systems is now possible, at the success rate of 99.42%.

Chinese regulators set high disaster recovery standards for banking systems at different levels of importance and their compliance is closely monitored. Compliance at Minsheng Bank is spot-checked, reinforced with regular drills including automated platforms. Backup systems are like insurance. If the system runs in perfection, the customer would never need backup data. But in case of accidents, the backup data must be immediately restored. This is especially critical for data and applications in the banking industry. With Veritas unified data protection platform, Minsheng Bank is able to achieve organization-wide recovery validation of the production system database. Two disaster recovery drills are performed for the top tier systems annually.

FOR MORE INFORMATION

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Veritas Technologies empowers businesses of all sizes to discover the truth in information—their most important digital asset. Using the Veritas platform, customers can accelerate their digital transformation and solve pressing IT and business challenges including multi-cloud data management, data protection, storage optimization, compliance readiness and workload portability—with no cloud vendor lock-in. Eighty-six percent of Fortune 500 companies rely on Veritas today to reveal data insights that drive competitive advantage. Learn more at www.veritas.com or follow us on Twitter at [@veritastechllc](https://twitter.com/veritastechllc).

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