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## Brief Intro: Zhejiang University of Finance & Economics "Big Data Practice Teaching and Research Platform"





## Brief Intro: Shenhua Railway Transportation Co., Ltd. Private Cloud





## Brief Intro: SIASUN Robot & Automation Co., Ltd. Informatization Construction





# Brief Intro: Hubei Initiate Infromation Technology Co. Ltd. SD-WAN





## Brief Intro: Wuhan Zhongbang Bank (Z-Bank) "Two Places and Three Centers"





# Brief Intro: Xiamen Tungsten Co., Ltd. (XTC) Core ERP System Upgrade





## Brief Intro: XTEP International Holding Limited "Business Data Life Cycle" Real-Time Display Platform





# Brief Intro: Zhejiang Meteorological Service – Digital Meteorology





# Brief Intro: Wuxi Lead Intelligent Equipment Co., Ltd. Smart Factory





# **Brief Intro: Aiways Auto File Sharing Platform**





# **Brief Intro: DEARCC File Sharing Platform**

#### Case Introduction in One Sentence **Case Picture** Lenovo DM unified storage provides a high-performance file sharing platform for DEARCC. Case Overview Lenovo uses the advantages of DM storage to provide a file sharing platform solution with high performance-price ratio and flexible expansion capability for DEARCC. Through the implementation of modular server room, Lenovo ensured that the customer's project goes online quickly and on time. Customer's problem and Lenovo's solution The demands for DEARCC are composed of: 1. The customer's Shanghai R&D center has rapid data growth. There is an urgent need for a stable and reliable file sharing storage that can provide high-speed IOPS while ensuring data security; 2. The customer's new factory does not have a server room to install the equipment. Building a normal server room will delay the launch of the customer' s project. Lenovo's solution: the construction of the LDC1000 modular computer room, and a customized file sharing system. DM7000H is used to provide a high-performance file sharing platform for the R&D center of DEARCC; DPA2400 backup integrated machine combined with DM7000H's own snapshot function can provide local data backup for the platform, which ensures data security. Value for Customer DM7000H's 4TB NVMe secondary cache and SSD Cache technology improve storage performance and greatly improve the work efficiency of the R&D center; The DPA backup machine combined with the DM7000H snapshot function provides a cost-effective backup solution that simplifies IT management. Permanent online service capabilities, flexible horizontal expansion, while ensuring seamless storage upgrades and data migration in the future.



#### Case Introduction in One Sentence

Lenovo assisted East China Normal University in building an HPC platform with highdensity, high-performance, low-cost, and both CPU and GPU computing capability.

## Case Overview

The HPC platform built by Lenovo for East China Normal University, has 559Tflops of CPU double-precision floating-point computing capabilities, and 224Tflops of GPU double-precision floating-point computing capabilities, effectively supports the computational efficiency and accuracy of the scientific research in various disciplines.

## Customer's problem and Lenovo's solution

- East China Normal University needs to build a platform for high-performance computing that is open to scientific research throughout the school. This platform is used for scientific experiments, data collection and analysis in mathematics, physics, chemistry and etc. to improve computing efficiency and accuracy. The client requires the platform to have a mature HPC dispatch management system, and to ensure the platform's high stability and scalability.
- Lenovo solution: 208 SD530 with Intel Xeon Gold 6230 CPU; 16 SD530 V100 GPU nodes; Omni-path 100Gb high-speed computing network; DE6000H. Lenovo also provides the customer with 5 years of system services

## Value for Customer

• Lenovo provides customers with high-density, high-performance, low-cost, costeffective supercomputing solutions that take into account traditional CPU computing and GPU computing.

• Lenovo's end-to-end solutions provide customers with consulting, coordination, procurement, delivery and project implementation services.





## **Brief Intro: Southwestern University of Finance and Economics HPC**





## Brief Intro: Hefei Ecological Environment Bureau Environmental Monitoring Big Data Platform





## Brief Intro: Wuhan Asia General Hospital Cloud Hospital Model





# **Brief Intro: Aihua Group HANA Private Cloud+LEC**





## Brief Intro: China Railway Construction Heavy Industry Corporation Limited VDI Solution





## Brief Intro: Human Resources and Social Security Department of Guangdong Province Equipment Procurement

#### Case Introduction in One Sentence

Lenovo's DM7000H unified storage greatly simplifies the IT infrastructure design of the Guangdong Provincial Department of Human Resources and Social Security, ensuring file sharing and performance requirements in the presence of numerous external systems.

#### Case Overview

This is the Guangdong Urban-Rural Social Security Integration and Migrant Worker Training Project, which is financed by the World Bank. Lenovo provided the HRSSD with the basic equipment to support the project, including 42 SR650s and DM7000H for a total of amount of \$800K.

#### Customer's problem and Lenovo's solution

- Large number of external systems need to be connected to the platform, and documents need to be approved by multiple roles with different permissions from different departments. A simple and easy-to-use file sharing platform is required to provide powerful management functions, I/O performance, and large-capacity expandable storage space.
- Lenovo provides 42 SR650 servers and a DM7000H unified storage. The NAS access protocol provided by the DM series storage can maximize the manageability of data access. On top of this, it also provides a SAN port to meet the needs of block storage in the future.

#### Value for Customer

 This is the largest case of Lenovo's South China DM series storage in the government industry, as well as the largest case in the social security industry. It is also a full configuration DM7000H implementation case, accumulating rich experience for subsequent implementation.
DM7000H can provide sustamers with bigher than expected performance

DM7000H can provide customers with higher-than-expected performance.





## Brief Intro: Shandong Shida Shenghua Chemical Group ERP Construction





# **Brief Intro: Liaohe Oilfield of CNPC HPC Cluster**





## **Brief Intro: Country Garden Hyper-Convergence Cluster**





# Brief Intro: Shenyang Pharmaceutical University Hyper-Convergence Solution





# Brief Intro: Shanghai Gongli Hospital Hyper-Convergence Cluster

#### Case Introduction in One Sentence

Lenovo's HX hyper-convergence solution helps Shanghai Gongli Hospital to achieve business continuity.

## Case Overview

Shanghai Gongli Hospital is a public general hospital founded in 1943, serving 3 million residents in the surrounding area. The hospital plans to complete level 6 electronic medical records and level 4 interconnection in the next 5 years. Achieving this goal requires the overall upgrading of business systems and hardware systems.

#### Customer's problem and Lenovo's solution

- As the customer needs to operate 7×24 hours a year without interruption, any shutdown for more than 15 minutes will cause medical accidents, the hospital relies on the highly available IT infrastructure. This poses a great challenge to the business interruption time in the process of business system and data migration.
- Lenovo deployed 2 hyper-converged clusters for the PACS system of Shanghai Gongli Hospital, each equipped with three HX5520, and configured Nutanix Advanced Replication License to achieve disaster recovery. DX1100U is used for data backup storage, which can be seamlessly compatible with the main storage in the future, simplifying data backup.

## Value for Customer

- Lenovo HX nodes are compatible with customers' original HyperV platform, and hence business systems won' t be interrupted during migration.
- Realize data and business disaster tolerance with active-active data center to meet the customer's requirements for business continuity.
- This infrastructure upgrade has laid a good foundation for Gongli Hospital to achieve the goals of its 5-year plan.

#### **Case Picture**





# Brief Intro: Enjoy International Tourism Resort ThinkSystem Solution





#### Case Introduction in One Sentence **Case Picture** QR Pharmaceutical uses Lenovo' s hyper-convergence solution to create a private cloud for its office systems, which greatly reduces operation and maintenance costs. **Case Overview** QR Pharmaceutical is a national high-tech pharmaceutical enterprise. The group has 8 or 9 branches, data is scattered in various factories, which causes untimely data sharing and ineffective data utilization rate, resulting in a waste of human and financial resources. It is necessary to build a unified information platform for the headquarters and strengthen data processing capabilities. Customer's problem and Lenovo's solution QR Pharmaceutical's branches have different requirements for servers, resulting in a wide variety of storage and server models and manufacturers. As the IT department has limited personnel, the selection of brands needs to be unified and simplified. Except for production business systems which have compliance requirements that must run on bare metal architecture, others such as OA, Email, CRM, etc. can run on a virtualized platform; The plan includes 3 HX3310 and 4 HX5000, 2 G7028 switches, and installation and implementation services provided by Lenovo' s engineers. Value for Customer Lay a good foundation for the customer's data lake and realize the centralized management, distribution and utilization of the data of various branches and departments.

 According to customer feedback, Lenovo's hyper-convergence solutions meet user requirements in terms of data security, such as redundancy, performance, business stability, and data integrity.





## Brief Intro: Huguan People's Hospital VX Hyper-Convergence Solution





# Brief Intro: GuoGuang Electric Company Ltd. Virtualization Solution





# Brief Intro: Huazhong Agricultural University HPC Cluster





## Brief Intro: Qilu Hospital of Shandong University Hyper-Convergence Solution





## Brief Intro: Guizhou Provincial Tax Service, State Taxation Administration VDI solution



