

CASE STUDY BEIJING CHAOYANG HOSPITAL

»LOGISTICS SYSTEM OF CHAOYANG HOSPITAL
THE SYSTEM HAS REDUCED OUR COSTS AND IMPROVED OUR EFFICIENCY«
Project leader of the information center, Sun Limiao, Chaoyang Hospital

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THE CUSTOMER

Country: the People's Republic of China
Industry: Healthcare
Founded: 1958
Employees: 3,600
Website: <http://www.bjcyh.com.cn/english/>



THE CHALLENGE

With logistics the urgent problem for the hospital, how to better manage the processes, integrate the information, and improve management and operational efficiency, were fundamental to their ongoing strategies.

THE SOLUTION

In implementing a modern electronic logistics system, it was essential that responsiveness, data security and information management were all first class. For these components of the project, a Fujitsu ETERNUS DX440 storage array was recommended as the core storage equipment, providing the capability to support all aspects of business data management.

THE CUSTOMER

Beijing Chaoyang Hospital, founded on Feb. 24, 1958, is one of the top-ranked hospitals in China. It is a subsidiary of Beijing Municipal Healthcare Bureau and also the third clinical of the Capital Medical University medical school. Covering the complete spectrum of specialties, the hospital is designated as an “A” hospital under the Beijing municipal medical insurance system and was one of the designated hospitals for the 29th Olympic Games in 2008.

Comprised of two campuses, the hospital covers a total area of 102,800 square meters. The Main and Jingxi campuses between them provide 210,000 square meters of floor space, enabling the delivery of 1,910 beds and support for nearly 3,600 medical and administrative staff. Out-patient and emergency admissions total some 2.5 million annually, with approximately 50,000 in-patients and 18,000 surgical operations.

THE CHALLENGE

In the medical industry, as in other industries, logistics has a major effect on operating costs and overall business activities. But, with an organization of this size it is also a key component of enterprise strategy management.

Chaoyang Hospital had high management costs, resulting from the logistics system having never been computerized. Automated electronic management was not possible. This had become a main point of expenditure at the hospital. The traditional management models had now become problematic, rather than beneficial, resulting in an inability to meet the hospital’s strategic goals. The burden of manual work and the potential for mistakes was also hampering medical work and creating a negative effect on the hospital.

THE SOLUTION

In choosing their electronic logistics system, Chaoyang Hospital also selected an Fujitsu ETERNUS DX440 storage array as the core platform for data management and retrieval. Fast access by the database and application servers was also guaranteed by use of four 8Gbps Fibre Channel (FC) host interfaces. The front-ended storage array provided guaranteed access to the business data storage from the database server and application servers of the logistics system.

THE BENEFITS

- The highly secure data storage ensured business continuity
- Data consistency and secure access simplified system management
- With high data growth potential the thin provisioning technology of ETERNUS DX440 helped reduce initial investments
- High storage performance improved production efficiency
- Quality build and long-life storage capability protected the user's investment
- System scalability lowered upgrading costs
- Simple operation saved training, operation and maintenance costs

The use of Fujitsu ETERNUS DX440 disk storage solved many problems for the hospital; letting them manage their new logistics system more efficiently, and helping to reduce ongoing operating costs.

BENEFITS OF THE STORAGE CHOICE

Fujitsu ETERNUS DX440 fully met the hospital's expectations by helping it successfully achieve unified electronic management of all logistics data. In addition, the storage resources were optimized and data security was greatly improved, ensuring management and system maintenance work were also greatly simplified.

The ability to link the database and application servers to the storage using multiple Fibre Channel (FC) host interfaces; further ensured fast multi-path access to the storage. It enabled load balancing and path redundancy using Fujitsu's multi-path management software ETERNUS Multipath Driver.

Four 8Gb FC host ports on the Fujitsu ETERNUS DX440 enabled stable high speed access between the host servers and storage, ensuring sufficient data access bandwidth and performance even during peak periods.

Scalability was taken care off by the ability for a single Fujitsu ETERNUS DX440 to supports 420 hard disks. This has a potential growth capacity (using current capacity disks) up to 840 Terabytes, making it an ideal centralized data storage platform.

On implementation the data storage requirements of the logistics system were guaranteed. However, its was now possible for the data from other business systems to also be accommodated within the expansion capability. This laid a solid foundation for Chaoyang Hospital to further centralize its business data. Stratification of the data storage is supported to ensure future data storage performance. Green energy efficiency requirements were also realized through the system's optimized configuration.

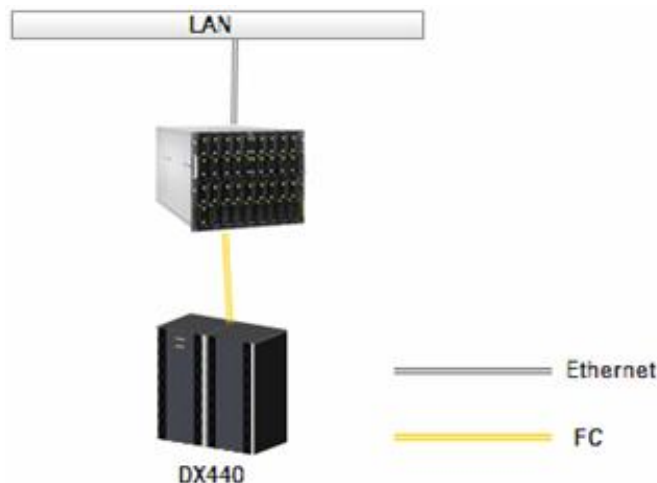
Now with the data from many production systems capable of being stored in the ETERNUS DX440 SAN storage system, centralized data managed - where all production data is automatically protected using local snapshots and mirroring - can be fully implemented.

CONCLUSION

Based on the powerful and reliable performance of Fujitsu ETERNUS DX440, Fujitsu has helped Beijing Chaoyang Hospital to implement the right solutions to their problems. Mr. Sun limiao, the project leader of their IT center said the following:

PRODUCTS AND SERVICES

- Fujitsu ETERNUS DX440
- Fujitsu Management Software (for simple operation)
- Fujitsu Multipath Drivers (for secure and fast access)



"Fujitsu's solution fully met our requirements, saving costs, simplifying data management and improving the efficiency of daily work."

In the process, the hospital has established a good relationship with Fujitsu, and now has trust that Fujitsu will always support them and help them manage future increases in system use and business requirements.

With Fujitsu establishing itself, through many references in the China healthcare industry, relevant medical IT experience and understanding will ensure Fujitsu continue to help Chaoyang Hospital. They are also developing further partnerships with other major medical institutions to bolster their plans as a major ICT provider to the healthcare industry globally.

ABOUT FUJITSU

Fujitsu is a leading provider of ICT-based business solutions for the global marketplace. With approximately 170,000 employees supporting customers in 70 countries, Fujitsu combines a worldwide corps of systems and services experts with highly reliable computing and communications products and advanced microelectronics to deliver added value to customers. Headquartered in Tokyo, Fujitsu Limited (TSE:6702) reported consolidated revenues of 4.6 trillion yen (US\$50 billion) for the fiscal year ended March 31, 2010. For more information, please see: www.fujitsu.com.

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