

Case study

Baoji High-tech Development Zone People's Hospital

»For the HIS System at Baoji High-tech Development Zone People's Hospital, we trusted Fujitsu's and its partner's expertise in IT system construction«

Mr. Liu, Director of Information Center, Baoji High-tech Development Zone People's Hospital



The customer

Baoji High-tech Development Zone People's hospital is a comprehensive upper-first-class hospital, which covers an area of 60 acres. The first stage of the medical building area covers nearly 100,000 square meters and the outpatient's building a further 12,000 square meters. This 17 story hospital has 1200 beds available.

The challenge

As a newly-established hospital, Baoji High-tech Development Zone People's Hospital faced intense challenges from competitors. In order to achieve continuous development, the Hospital sought ways to build its advantages - particularly in the areas of working efficiency, service quality, and cost control.

This would be the first introduction of IT equipment for the hospital. Expectations are that synergetic working would be achieved via the IT system and that service quality could be improved so as to enhance patient satisfaction and ongoing loyalty.

In order to maximize its investment and save on management costs, the hospital required that the IT system should have high scalability. This would not only meet the current business needs, but also be able to adapt to the business growth of the hospital in the future. Equally importantly, it should also operate stably and provide secure data protection.

The solution

A system would be configured using a high-performance Fujitsu ETERNUS DX440 Storage for main storage, with a second Fujitsu ETERNUS DX90 Storage unit for the disaster recovery system. By use of ETERNUS ACM Remote Copy software, the system would enable remote disaster data recovery for the DX440 Storage system.

The database server would be configured using two mission critical Fujitsu PRIMEQUEST 1800E2 open system servers. Other applications would be configured on eight Fujitsu PRIMERGY RX300 servers. This would include the case system, test system, web system, outpatient system, management system, and training system.

The customer

Country: The People's Republic of China
Industry: Healthcare
Founded: 2011
Employees: recruiting (more than 1000)
Website: www.2878999.net



The challenge

As a newly established hospital, Baoji High-tech Development Zone People's Hospital sought to build its advantages in aspects of working efficiency, service quality, and cost control. This would enable it to stand out from the competition and achieve continuous development in West China.

The solution

For its storage needs the Hospital adopted a Fujitsu ETERNUS DX440, and ETERNUS DX90, storage systems. This was matched with two mission critical Fujitsu PRIMEQUEST 1800E2 servers and 8 Fujitsu PRIMERGY RX300 rack servers. These would underpin the HIS and create a collaborative working environment.

The benefits

- Synchronous or asynchronous disaster recovery of data ensures high level data security;
- System scalability is capable of meeting the demands of the Hospital's business growth;
- Centralized management of data and high system reliability save management and maintenance costs;
- Information sharing increases the synergistic efficiency intra-hospital cooperation and saves on operation costs;
- The establishment of the IT system has improved service quality and has enhanced patient satisfaction.

The benefits

Use of the matched storage for disaster recovery of data, makes possible both synchronous and asynchronous disaster recovery based on Fujitsu's remote data replication software ETERNUS ACM Remote Copy.

The production system is based on the high-performance Fujitsu ETERNUS DX440 storage which also provides sufficient guarantees for future system expansion and allows the system to adapt to the Hospital's growing business environment. The disaster recovery storage system uses a Fujitsu ETERNUS DX90 which can perform data replication in conjunction with the Fujitsu ETERNUS DX440 production system. Manual switching is possible to enable operational switching between the application systems at the two centers.

The database server supported by Fujitsu PRIMEQUEST 1800E2 open platform servers. As the core database server, each can be configured with up to eight Intel® Xeon® E7 family, each having a maximum of 8 cores per CPU. Flexibility and highly secure process visualization is provided by four hardware partitions, and the reserved system board function, which enables continuous operation even if a component on a system board fails. This high performance and reliability provide essential non-stop operation of the database.

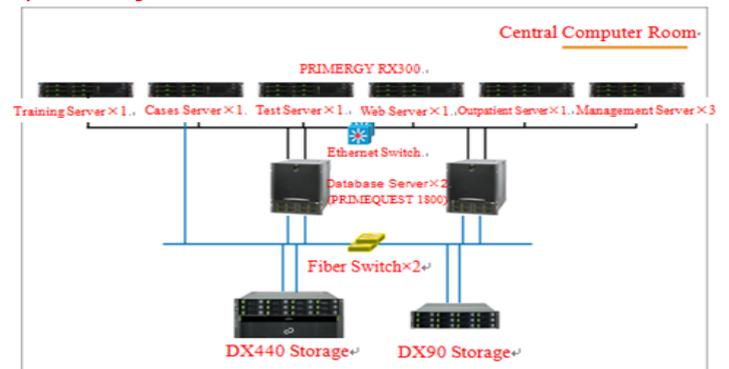
The overall system includes a further eight Fujitsu PRIMERGY RX300 rack servers, which provide services such as case system, test system, web system, outpatient system, management system, and training system.

With all the departments within the hospital connected to this system, the departmental requirements for information sharing are basically met. The result is improved efficiency and synergistic cooperation in treatment. This is improving service quality and as a result enhancing patient satisfaction. In addition centralized management of information and the cooperation between departments is saving on management and operational costs at the hospital. These benefits are also providing favorable conditions for the healthy development of the hospital.

Products and services

- Fujitsu PRIMEQUEST 1800E2 *2
- Fujitsu ETERNUS DX440 *1
- Fujitsu ETERNUS DX90 *1
- Fujitsu PRIMERGY RX300 *8
- Fujitsu ACM Remote Copy

System design



Conclusion

Fujitsu's solution not only meets the customers' current needs, but also reserves upgrade space to satisfy ongoing rapid development of the Hospital's business. In addition Fujitsu and its partners provide the Hospital with the right IT expertise that is helping them improve their business processes, winning the Hospital's recognition and trust.

Fujitsu has provided the database servers, storage systems, and application servers to enable this customer to establish a complete HIS system - which is a typical situation in Western China. This is also helping with Fujitsu's businesses develop and continued penetration into the healthcare industry in the region.

About Fujitsu

Fujitsu is a leading provider of ICT-based business solutions for the global marketplace. With approximately 170,000 employees supporting customers in 100 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 4.5 trillion yen (US\$55 billion) for the fiscal year ended March 31, 2011. For more information, please see: www.fujitsu.com.

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