

Case study

Chongming Healthcare Bureau

»Regional Health Records System of Chongming Healthcare Bureau
The powerful system improves our working efficiency«

Mr. Xu, Project Manager, Chongming Healthcare Bureau



The customer

Country: the People's Republic of China
Industry: Healthcare
Founded: 1949
Employees: >2000
Website: www.cmx.gov.cn

The challenge

Under instruction from the Healthcare Ministry of China, Chongming Healthcare Bureau planned to develop a Regional Health Record System to create, process, and save records on each individual's health information.

The Bureau considered choosing the most advantageous and cost-effective products, solution and services, from among a wide range of manufacturers.

The solution

The Regional Healthcare Records System is implemented on a base of two Fujitsu SPARC Enterprise M5000 servers, 18 Fujitsu PRIMERGY BX920 servers and two Fujitsu ETERNUS DX80 storage systems.

The customer

Chongming Health Bureau, a public institution in Chongming District, Shanghai, is the governing body for seven hospitals, a health inspection institute, a disease prevention and control center, a health school and the district's ambulance stations.

The challenge

The Bureau planned to develop a Regional Health Records System which would create, process, and store the records on each individual's health. The system plan would document each individual's basic information, summary of main diseases and health problems, health service records, etc. In the future health evaluation and health tips will also be included to help track each individual's ongoing health status.

The system's aim is coverage of all hospitals and health centers in the district. This would make patient information conveniently and efficiently available for health institutions' and daily medicare work. All of the various records would be standardized and digitalized, and information sharing will then be possible among medical institutions, patients, and health administrative sectors.

The solution

The solution proposed by Fujitsu and its partner met the customer's requirements exactly.

It would also be based on two midrange Fujitsu SPARC Enterprise M5000 servers for the health records database.

18 Fujitsu PRIMERGY BX920 blade servers, deployed as application servers for health records. They form the access layer, it will receive data uploaded by regional health centers. This is then consolidated into the health records database system.

A further two Fujitsu ETERNUS DX80 storage systems, one to act as the health records storage system, and the other as storage for the public service system round out the base infrastructure.

The benefit

- Uninterrupted IT service was ensured by the high reliability of the system,
- Fast and concurrent access to all, health records system was assured by the high performance of the system infrastructure,
- The inherent system security enabled safe data storage and prevention of data loss, ;
- The ability to scale-out the devices provided high system scalability, laying the foundation for further applications in the future;
- Space-saving platforms reduced space costs for the organization.

The benefit

Relying on Fujitsu's strong platform products, the IT infrastructure of the Chongming Healthcare Bureau has improved thoroughly. The Fujitsu product features, such as high reliability, performance, scalability, and simple maintainability & manageability, have simplified meeting the customer's requirements for the constructing of its Electronic Health Records System.

Stability of the Fujitsu SPARC Enterprise midrange hardware architecture and Oracle Solaris operating system has also ensured high availability of the core database.

The high scalability of the Fujitsu PRIMERGY BX900 blade servers has also allowed operation 18 business applications in just 10U, which was ideal for the small machine room.

The centralized storage system is also ensuring data storage safety, and high scalability, with the front-end ports of the Fujitsu ETERNUS DX80 S2 disk arrays able to scale out to the next generation of storage protocol FCoE.

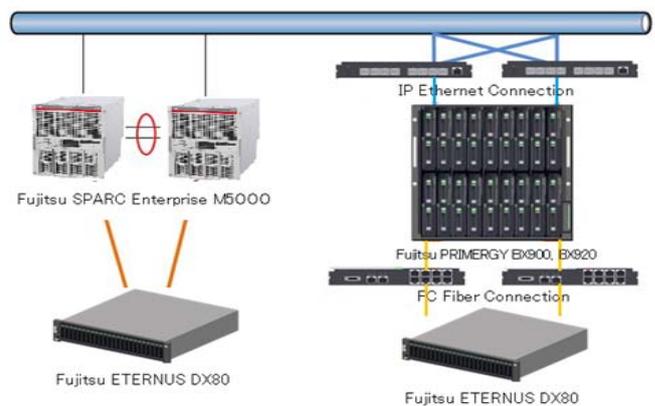
Now the Electronic Health Records System based on Fujitsu's platform products is providing steady and efficient documentation of medicare records, health examination records and disease surveys, as well as total digital storage and management. The solution offered by Fujitsu is therefore fully meeting the requirements of the Bureau.

With the Electronic Health Records System established, residents' health information is managed in an easier, faster, and safer way, reducing resource consumption, increasing information access, and providing a more systematic management and checking methodology. This is helping people handle their health problems in a much better way.

Products and services

- Fujitsu SPARC Enterprise M5000 *2
- Fujitsu ETERNUS DX80 *2
- Fujitsu PRIMERGY BX900 *1, BX920 *18

System design



Conclusion

Successful development of the Electronic Health Records System for Chongming Health Bureau has helped Fujitsu further accumulate rich experience in the China health Industry. This is a significant milestone in the reference of health bureaus. Together they all contribute to the further promotion of Fujitsu products and solutions for similar IT health projects in Shanghai and East China regions.

With the Chongming Health Bureau Project, Fujitsu has not only helped the customer build a system capable of future development, but has also won recognition from the customer for the strength of its platform infrastructure ability. According to Chongming Health Bureau, Fujitsu will become the first choice for its IT project developments in the future.

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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2012-03-12 WW-EN]

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