Case study
China Eastern Airlines

"Fujitsu ETERNUS DX80 S2 storage system safeguards the “Data Mart” Project for China Eastern Airlines"
**Case study**  China Eastern Airline

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### The benefit

- High reliability for the “Data Mart” through the powerful data protection technology.
- Increased flexibility produced from the storage platform’s redundancy features and expandability.
- Increased security with strong disaster recovery mechanisms protected by the data safe.
- Energy conservation design reduced TCO.

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### The solution

In consideration of China Eastern Airline’s need for a stable and efficient storage platform, Fujitsu proposed the SAN network storage solution. This solution is based on the ETERNUS DX80 S2 storage system and Brocade 300 SAN FC Switch, and ensures reliable data transmissions in real-time. Fujitsu also made certain of a smooth implementation of the “Data Mart” project based on Fujitsu rich experience of ORACLE database.

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### The benefit

Security of the system is reinforced using Fujitsu Block Guard technology. At the same time, in case of power outages, Fujitsu storage provides Cache Guard to protect cache data during power loss through writing it to hard disk. Furthermore, Disk Drive Patrol technology has also ensures data consistency by regularly checking drives.

ETERNUS storage systems are designed with full redundancy configuration and online capacity expansion. While the 4 Gbps fibre channel switch has also been adopted to connect controller with the independent disks. This mechanism can automatically detect and isolate faulty disks and then reduce the impact on system usability as a result of disk failure. Compared to the general disk series connection, this not only improves the systems reliability, but also reduces the risk of disk error.

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### The Benefit

For China Eastern Airlines the ETERNUS storage system meant that they could effectively implement the “Data Mart” knowing it would be reliably supported. With the High reliability of the system the Airline was able to depend on the real time information and quickly respond to the competitive market demands. Moreover, ETERNUS’s complete redundancy and ability to easily expand, significantly improved the systems availability and flexibility.

The cost effective disaster recovery function based on the SAN network storage solution and the RAID level 6 scheme also allowed China Eastern Airlines to reduce costs while at the same time increasing the effectiveness of their data security for high-availability systems. This provided a further protection for the airlines rapidly growing data.

The storage system’s unique energy conservation protection design, powerful expansion function and use of virtualization technology, also proved to be very important to China Eastern Airlines. With these capabilities the new “Data Mart” is reducing their TCO by lowering energy consumption, operational costs and maintenance, while extending the solutions life cycle.

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### Conclusion

Fujitsu ETERNUS DX80 S2 storage system built a highly efficient connection between the mission critical system and the storage equipment. Through the flexibility of the solution, China Eastern Airlines are now able to prepare and plan for future expansion, and the “Data Mart” project has ensured that data is reliable and can be effectively used. Equipped with Fujitsu ETERNUS DX80 S2 storage system, as well as Fujitsu’s support and services, China Eastern Airlines can now easily facilitate their customers’ needs and make changes as required in the fast paced, dynamic market.

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### About Fujitsu

Fujitsu is the leading Japanese information and communication technology (ICT) company offering a full range of technology products, solutions and services. Over 170,000 Fujitsu people support customers in more than 100 countries. We use our experience and the power of ICT to shape the future of society with our customers. Fujitsu Limited (TSE:6702) reported consolidated revenues of 4.5 trillion yen (US$54 billion) for the fiscal year ended March 31, 2012. For more information, please see http://www.fujitsu.com.

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