Case Study
BTC Group

»We have gained a considerable competitive edge: a virtualized data center, based on the latest Fujitsu products and technologies, helps to enhance the effectiveness of users' operations and significantly reduces potential IT expenses. In addition, we have made our information system more reliable and fault tolerant, increased its flexibility and scalability«

Viktor Nikonov, IT Director, BTC Group

The customer

Country: Russia
Industry: Consumer Goods
Founded: 2007
Website: www.btcgroup.ru

The challenge

In connection with the development of the Russian light industry holding BTC Group, the need arose to create a virtualized data center. The previous data center, given the obsolete workstations and servers, was no longer able to cope with the existing workload and was too costly in terms of user support. The task put to the contractor was to build a new platform, to conform to the BTC Group's long-term IT system development strategy, which would account for enhanced requirements for safety and standardization and would reduce user support costs.

The solution

Fujitsu was chosen as the equipment supplier for the project implementation, involving servers and data storage systems. Fujitsu has rich experience in the creation of such facilities to meet the custom orders of Russian and foreign companies alike.

The customer

BTC Group is Russia's largest light industry holding, specializing in the development, production and subsequent sale of high-tech clothing for various business sectors.

BTC Group operates its own high-tech production base, which includes businesses located in St Petersburg, Leningrad Region (Vsevolozhsk, Boksitogorsk, Podporozhye), Rostov Region (Shakhty, Salsk), South Ossetia (Tskhinval), Belarus (Brest), Tula Region (Kireevsk, Dubna) and Kursk Region (Zheleznogorsk).

Customers of BTC Group include Aeroflot Russian Airlines, Rossiya Russian Airlines, Russian Railways, Gazprom Gazoraspredelenie, the Russian Internal Affairs Ministry, the Russian Committee of Enquiry and others.

The challenge

When choosing a supplier to build its new data center, BTC Group management placed strict requirements on capacity, quality and reliability of components that were required for building the IT systems.

Prior to project implementation, the Fujitsu solutions were subjected to testing. The relatively new and very promising concept of Virtual Desktop Infrastructure (VDI) was chosen. Physical PCs were replaced by an array of virtual PCs, deployed in the data center, access to which is effected from any client device that is suitable for these purposes. During the course of a week-long load test with the simultaneous operation of 15 users on dedicated VDI machines, excellent results were achieved from operation of the test data center: virtualization of work places helped to improve the quality of services provided to company employees and protection of data, enhance flexibility and reduce costs on user support. Following the test results it was decided to build the virtualized data center based on Fujitsu solutions.

The benefits

- Cutting energy consumption and reducing operating expenditure
- Enhancement of user efficiency
- A high level of safety

Products and services

- Fujitsu VDI with built-in VMware® ESXi Hypervisor
- FUJITSU Server PRIMERGY BX900 S2, BX924 S3
- FUJITSU Storage ETERNUS DX90 S2

The solution

VDI-stations based on VMware were placed in the BTC Group infrastructure. VDI sets, used in the design, are deployed based on Fujitsu PRIMERGY BX900 S2 servers, which are an improved dynamic server infrastructure in a single housing. This blade system can adapt flexibly to various IT requirements and it ensures significant economic advantages for an ever-growing number of applications. Maximum density in the housing and the highly effective power modules, certified for 80Plus Platinum and managed by ServerView Power Management software improve the savings that the client can make from this solution. Fujitsu PRIMERGY BX900 S2 servers house up to 250 virtual machines, which increases the working space and, at the same time, promotes business development, plus five BX924 S3 blade servers that use the latest family of Intel® Xeon® processors, E5-2650 8C 256 RAM (2 x 128). Given the opportunity to connect several chassis and switches into a single stack, the system helps to implement very flexible scaling and simplified management. The blade servers do not use HDD, so the downloading occurs from Flash memory devices with VMware ESXi Hypervisor preinstalled. The ETERNUS DX90 S2 disk-based storage system with HDD SAS 600 GB memory devices serve as data storage. When the Windows 7 OS is loaded, the ETERNUS DX90 data storage system performs about 600 input-output operations a second, facilitates the simultaneous use of ISCSI and FC and replication over a WAN channel. Furthermore, this data storage system possesses the best price/performance correlation parameters and holds a 5-year guarantee from start of operation.

The benefit

Thanks to the creation of the virtualized data center, BTC Group has received a powerful business development tool. Using the new IT systems, the company has been able to reduce user support costs, while the reliability of storage and transfer of information has increased. The ETERNUS data storage systems are now one of the key elements in the BTC Group IT system, providing the necessary level of performance.

Conclusion

"We have gained a considerable competitive edge: a virtualized data center, based on the latest Fujitsu products and technologies, helps to enhance the effectiveness of users' operations and reduce the IT budget. In addition, we have made our information system more reliable and fault tolerant, increased its flexibility and scalability."

Viktor Nikonov, IT Director, BTC Group

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