

# Case Study SDM-Bank

»SDM-Bank has been collaborating with Fujitsu since 2005. In this time we have grown confident of the company’s solutions, their quality and high level of performance. Fujitsu technologies give us freedom to maneuver: as business volumes grow, all that is needed is to install the requisite devices and programs onto the server, and the bank is ready to conquer new heights«

Oleg Ilyukhin, Director - Department of Information Technology, SDM-Bank



### The customer

SDM-Bank features in the top 100 Russian banks in terms of profitability. In 2013 the agency Fitch Ratings raised its rating from “B” to “B+” (stable). SDM-Bank has 13 departments in Moscow and the Moscow Region and nine branches in cities around Russia. In total more than two hundred ATMs operate across the country and more than seven hundred self-service terminals, facilitating the provision of a wide range of services, both to legal entities and to individuals. The shareholders of SDM-Bank include the European Bank for Reconstruction and Development (EBRD) and its founders are construction and mechanical engineering concerns, leading Russian training centers, organizations and companies from various fields of small and medium business.

### The challenge

In connection with the development of the business, the growth in the volume of data and the number of operations, and also linked with possible risks associated with rolling blackouts, repair work or disasters, SDM-Bank was faced with the need to build a data center located remotely from its head office.

### The solution

SDM-Bank’s management selected Fujitsu solutions for the project as it outperformed over players on the market. Equipment for building the DC was chosen allowing for the high requirements for reliability, performance and safe functioning of the IT infrastructure with a broad geographical coverage.

At the planning stage, Fujitsu specialists presented a detailed virtual IT infrastructure (the necessary statistics gathered, the target solution designed, budget compiled and a precise preliminary calculation of the resulting performance level performed). All of this enabled the client, even before the project had been launched, to get a clear understanding of all the key aspects of the functioning of the equipment. A standby DC was built in the virtual IT infrastructure. In one rack for eight Fujitsu PRIMERGY BX900 blade servers, 32 virtual machines were deployed on the VMware virtualization platform. One ETERNUS DX440 S2 data storage system and 5 expansion disk shelves were also installed. In addition, a new Fujitsu server was installed for the automatic banking system Diasoft FA#, as loads on the previous version had grown considerably.

### The customer

Country: Russia  
Sector: Finance  
Founded in: 1991  
Employees: 700+  
Website: www.sdm.ru



### The challenge

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### The solution

SDM-Bank chose Fujitsu solutions as its preference including a Fujitsu PRIMERGY BX900 S2 blade system and ETERNUS DX440 S2 data storage system. These solutions satisfy all the latest functional requirements in terms of performance, energy efficiency, reliability and protection of capital investment and they offer wide-ranging opportunities for scaling and expanding data volumes.

### The benefit

- Economic operation
- Maximum scalability to satisfy prospective needs
- An optimum system for any virtualization scenarios and or resource-intensive applications
- Flexible scaling and simplified management

### The benefit

The Fujitsu PRIMERGY BX900 S2 blade system has helped to minimize delays in the bank's operations, even in the event of a complete lack of communication with the head office and the remainder of the LAN, as the solution has the fastest possible system for automatic recovery and flexible allocation of available resources to IT services on demand. In the event of faults in DC functioning, the ETERNUS DX440 S2 data storage system helps to protect valuable information, implementing remote copying of data onto other RAIDs. In addition, this solution ensures the simultaneous connection to storage networks of various kinds.

VMware vSphere virtualization enables the simple and effective management of network, storage and security system resources. It became possible to perform the primary initialization of all new IT resources and commence provision of access to applications. Also VMware vSphere helped to simplify the administration process of physical systems and enhance maximum operational efficiency.

According to SDM-Bank assessments there has been a 20% reduction in the costs of purchase and server equipment maintenance and a 60% saving on a DC space.

### Products and services

- FUJITSU Storage ETERNUS DX440 S2
- FUJITSU Server PRIMERGY BX900 S2

### Conclusion

In the near future a stepwise transition of the main DC to VMware virtual infrastructure is planned, which will ensure the quality improvement of business continuity indicators. Specialists from Diasoft are making important steps, directed to the transition of the bank to a virtual environment. The Fujitsu solutions will enable the implementation of the design with minimal investment of finance and time. Rather than having to purchase new equipment it will be sufficient to acquire nothing more than VMware software licenses.

*"Thanks to preliminary analysis by Fujitsu specialists of the current infrastructure, I already knew what the services would be and on which servers they would be located, how many processors and how much memory would be set aside for this. Incidentally, after the completion of assembly of the equipment at the new DC and its partial launch, it transpired that we had got the calculations pretty much spot on. Even at this stage it is great to see such an excellent result."*

Oleg Ilyukhin, Department of Information Technology at SDM-Bank

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