

“The Fujitsu PRIMEQUEST 2800B2 server provides features similar to the Fujitsu PRIMERGY BX900 S2 server. We wanted to find a reliable and easy-to-understand server and we got it.”

Vitaly Zaytsev  
Director of Server Platform Management  
Halyk Bank

Halyk Bank purchased the FUJITSU Server PRIMEQUEST 2800B2 to manage customer databases, ensure business continuity and reduce costs.

#### At a glance

Country: Kazakhstan

Industry: Banking

Founded: 1923

Website: halykbank.kz

#### Challenge

Halyk Bank needed servers to work 24/7 to keep customer databases running smoothly.

#### Solution

Halyk Bank purchased a FUJITSU Server PRIMERGY RX900 S2 and moved most of the database to it. In 2015, the bank decided to purchase a FUJITSU Server PRIMEQUEST 2800B2 which offers even higher performance. During the migration, CPUs and memory were also upgraded.

#### Benefit

- Reduces license fees and software maintenance costs for Oracle databases
- Ensures business continuity even if there is a failure in one of the partitions
- Higher system utilization and IT investment protection

## Customer

JSC Halyk Bank of Kazakhstan is the largest universal commercial bank of the Republic of Kazakhstan and has been operating for over 90 years. It is one of the most reliable and diversified financial institutions in Kazakhstan. Halyk Group has been growing as a financial group, offering a wide range of services (banking, insurance, leasing, brokerage and asset management services) to its retail, SME and large corporate customers. The bank has subsidiaries and affiliates in Russia, Georgia and Kyrgyzstan.

## Products and services

- FUJITSU Server PRIMEQUEST 2800B2
- FUJITSU Server PRIMERGY RX900

## Challenge

Halyk Bank uses hardware from multiple vendors with x86 servers from three different vendors, including Fujitsu. Overall, the different vendors account for approximately the same share of hardware in the bank's IT infrastructure. If each blade in the chassis is considered as a server, Halyk Bank has purchased some 400 servers during its cooperation with Fujitsu.

Halyk Bank has been working with large vendors of servers, storage and other networking and IT equipment for a long-time and its IT department does not test systems before purchasing them. When the bank decides to improve its infrastructure, the IT department managers draft a detailed and strict specification for the hardware required and then the bank holds a tender for hardware procurement with an existing pool of suppliers. It then signs a contract with the company which has made the best offer.

Fujitsu hardware was selected for the upgrade of the server platform to maintain the customer database as it was the best value-for-money, delivering exceptionally high mission-critical reliability.

## Solution

The main goal when moving the customer databases to industry standard x86 servers was to reduce server infrastructure costs. Fujitsu hardware was used to maintain the bank's database which was designed for corporate banking services. There is only one database located on the Fujitsu server. This is a mixed workload database for transaction processing and reporting and is mainly used by the bank's front-end personnel. However, when it comes to reporting, all the bank's departments engaged in corporate banking services work with it.

Halyk Bank's IT department analyzed the Oracle Application Cluster to ensure better database resilience. However, its findings showed that the cluster's sophisticated structure was a big obstacle in ensuring the database runs smoothly, which is its sole task. Therefore, the bank refused to use the clustered solution any longer. Since industry standard x86 servers are much cheaper than similar RISC-servers, both Fujitsu servers are maintained in good serviceable condition and are operated alternately as a primary or a standby server. Halyk Bank is now using Oracle Database 11, a simple database management solution, and Oracle Data Guard software; ensuring smooth connection to the standby database. The switchover time is quite short with no transactions lost during this time.

## Benefit

"We have been implementing migration projects to move from RISC-servers to Intel-based x86 servers since 2012. This allows us to reduce the server infrastructure TCO while ensuring adequate performance. Fujitsu is one of the priority server vendors for us," says Vitaly Zaytsev, Director of Server Platform Management, IT Department at Halyk Bank.

"The Fujitsu PRIMEQUEST 2800B2 server provides features similar to the Fujitsu PRIMERGY BX900 S2: 16 cores vs. 10 per CPU. There is still a good processing power reserve - the more the processing power reserve is, the safer and more secure we feel. We wanted to find a reliable and easy-to-understand server and we got it," concludes Vitaly Zaytsev.

The goals and objectives of Halyk Bank's IT department depend on business growth rates. When new large projects are initiated, the industry standard x86 servers will be the number-one choice as they are more reasonably priced and can be used at once as standby servers that duplicate the primary ones. Recent findings show that state-of-the-art Intel-based servers prove to be highly resilient, enough to ensure the smooth operation of all the IT systems in the bank.

## FUJITSU

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