



## Success Story

# Kazakhtelecom Builds the New National e-Procurement Portal on FlexPod Architecture



ҚАЗАҚТЕЛЕКОМ

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### KEY HIGHLIGHTS

#### Industry

Telecom

#### The Challenge

Develop a cloud infrastructure for the JSC Samruk Kazyna Fund of National Welfare e-procurement portal

#### The Solution

Deploy the FlexPod® architecture based on high-performance NetApp® FAS6240 storage

#### Benefits

- High data availability
- Ease of deployment and scalability
- Effective disk space usage
- Optimization of storage system utilization
- Optimal price/performance value

### Customer Profile

Kazakhtelecom is one of the biggest telecommunication companies in Kazakhstan (included in the state program “30 Top Companies in Kazakhstan”). The company provides landline phone services (including ISDN), data network services, broadband Internet access, IPTV, web hosting, SIP, video conferencing, telegraph, and other communication services. The number of Kazakhtelecom customers as of January 1, 2013, is over 4 million. The company services are ISO 9001:2001 certified and *Euromoney* magazine called Kazakhtelecom the best telecommunication company in CIS in 2005. In 2006 the company was recognized as the best telco company in Central Asia. Kazakhtelecom was rated #1 by *Exclusive* magazine based on a survey of various industries in Kazakhstan in 2013.

### The Challenge

Kazakhtelecom was chosen by the government as a provider of cloud infrastructure for the JSC Samruk Kazyna Fund of National Welfare e-procurement portal. The major challenge was the limited time frame for project development and implementation. In addition, the infrastructure had to guarantee

maximum reliability and performance of e-procurement operations for buyers submitting requests as well as for vendors' proposals.

### The Solution

JSC Kazakhtelecom advised Samruk Kazyna to use Oracle11g™ as the main tool for trade data management. VMware® vSphere® was recommended as the virtualization platform for reliable and efficient utilization of computing resources. Kazakhtelecom then had to choose a hardware platform that would provide superior service and application availability and reliability.

After considering available options, Kazakhtelecom chose the FlexPod architecture consisting of Cisco® UCS™ servers, Cisco switches, and NetApp storage. Considering the scale of the project and its requirements for capacity and performance, the customer chose a NetApp FAS6240 storage system. One of the key factors in the choice was the capability of the FlexPod architecture to scale up and scale out to meet the future growth needs of e-procurement operations. Another main reason for this choice was the positive experience Kazakhtelecom had with NetApp

solutions for data management; the company uses NetApp solutions to support its billing systems.

The FAS6240 system supports capacity up to 65PB and sustains more than 1.5 million IOPS. It provides close to 100% service availability and data protection while decreasing planned downtimes. The flexibility of this solution allows the customer to quickly react to changing application demands without having to modify the storage system. Fibre Channel SAN was chosen for providing high-speed data transfer, reliability, and the capability to scale out. Now end users' Oracle® Database and Oracle applications, the mission-critical components of the e-procurement system, are stored on NetApp.

### Business Benefits

The architecture that Kazakhtelecom implemented helped the company to achieve:

- High availability and reliable data management
- Ease of deployment and future growth
- Efficient disk space utilization
- The ability to serve up to 29,000 clients simultaneously

These factors were critical for the company because all the procurement operations were moved to the new platform and the number of procurement operations increased dramatically during a short period of time.

In the future, Kazakhtelecom plans to deploy SnapMirror® replication technology over IP replication, which will not only provide disaster recovery of critical business data, but also allow the company to utilize resources of the disaster recovery infrastructure for other tasks. The unified storage architecture now simplifies management of data replication processes, which provides an opportunity to use the unified solution for all NetApp systems using any data protocol or application in virtualized and traditional environments with different configurations.

Advanced NetApp technologies for increasing efficiency also helped JSC Kazakhtelecom to optimize the storage system infrastructure and achieve optimal price/performance value along with a high return on investment.

## SOLUTION COMPONENTS

**NetApp Products**  
NetApp FAS6240

**Cisco Products**  
Cisco UCS B-Series Blade Server

**Protocols**  
FC

**Applications**  
VMware vSphere  
Oracle 11g

**Partner**  
BAS Company  
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