CUSTOMER CASE STUDY

Министерство здравоохранения Ульяновской области

> “There was a need to improve data storage volume, performance and infrastructure, as well as deliver high data transfer speed through the integration of Fujitsu server systems.”

Evgeniy Chekmenev
Head of Corporate Projects Department
Webzavod

MIAC deploys FUJITSU Server PRIMEQUEST 2800B2 and FUJITSU Storage ETERNUS DX200 to update existing facilities and guarantee business continuity.

At a glance

Country: Russia
Industry: Healthcare
Website: med.ulgov.ru/miac

Challenge

Create a Medical Information Analysis Centre (MIAC) for Ulyanovsk Region Department of Health to provide all the necessary informational support services to the medical facilities.

Solution

Procured a high-performance mission critical FUJITSU Server PRIMEQUEST 2800B2 and FUJITSU Storage ETERNUS DX200 to update existing facilities.

Benefit

- Intelligent architecture with advanced RAS features
- Guarantee of business continuity even if one of the partitions fails
- Improves utilization and protects IT investments
- Increase in data processing speed

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Customer

MIAC - Medical Information Analysis Centre of Ulyanovsk Region Department of Health – is an information analysis organization dealing with regional health statistics. Collecting and processing this information, MIAC is ultimately responsible for the monitoring and reporting of all medical facilities in the region. Furthermore, MIAC helps to develop, implement, and maintain automated information data systems, participate in the creation of public information programs in the Ulyanovsk region and help establish a unified telecommunications system.

Products and services

- FUJITSU Server PRIMEQUEST 2800B2
- FUJITSU Storage ETERNUS DX200

Challenge

When selecting new server hardware, MIAC was looking for a 100 percent protected solution that also offered strong potential for scalability. Furthermore, with MIAC needing to host many virtual machines at the same time, it quickly became apparent that a big blade server was not a viable option. This is because, unlike UNIX, Windows Server 2012 OS is unable to create a large virtual server based on several physical servers. MIAC was looking for a powerful x86 multiprocessor that had at least four processors. After reviewing the only three solutions on the market able to meet these requirements, MIAC selected Fujitsu PRIMEQUEST thanks to the architectural benefits it offers over the other systems, as well as its low price and expert installation and maintenance.

Solution

Based on Fujitsu hardware and using existing server systems, a high availability cluster was deployed; guaranteeing the continuous smooth operation of Regional Medical Information Systems (RMIS). This cluster consisted of a Fujitsu PRIMEQUEST 2800B2 server combined with an ETERNUS DX storage system; with the server operating several virtual machines for Microsoft SQL, such as those for databases and applications, and the storage system dealing with virtual machine images, databases and short-time data networks. Not only does this cluster allow virtual machines to smoothly migrate with the PRIMEQUEST server, but also with standard external servers in case of emergencies. Hosted in three 19-inch server racks, MIAC also has the option of installing new hardware-free units.

Benefit

Launched in 2014, Fujitsu hardware has been used in the MIAC upgrade project since November 2015. Future plans include the deployment of VDA using either existing hardware or a dedicated failover cluster, as well as an increase in the number of users and RMIS speed and robustness.

"Pre-project assessment of the existing e-registry system of Ulyanovsk Region healthcare system revealed the necessity to increase data storage volume, to improve performance of data storage and processing infrastructure and to deliver high data transfer speed through the integration of Fujitsu server systems," comments Evgeniy Chekmenev, Head of Corporate Projects Department, Webzavod.

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