

Mail.ru chooses DEPO Storage Servers with Adaptec Unified Serial™ Series 5 RAID Controllers for its Datacenter Upgrade



Introduction

Founded in 1998, Mail.ru is a leading Russian online communications and entertainment company that hosts the Russian Internet's main communication portal. The Mail.ru portal includes the largest free email service in Russia and CIS countries, plus the Mail.ru Agent instant messenger, the national social network Moy Mir@Mail.ru, the search engine Poisk@Mail.ru search engine, and several other resources.

When Mail.ru's datacenter needed a reliable server upgrade solution that could be implemented without disrupting service, the company selected DEPO Storage Servers with Adaptec Series 5 RAID controllers. DEPO Storage Servers are manufactured by DEPO Computers — the top Russian provider of computer equipment and IT solutions.

Meeting stringent requirements

It was a given that any server solution that Mail.ru chose must be able to support reliable and uninterrupted operation of the company's datacenter. Mail.ru also had additional criteria:

- High performance
- Ability to store and process large amount of data
- Fit into 3U form-factor

After analysis of Mail.ru's requirements, DEPO Computers recommended their premium solution – the DEPO Storage Server 3116 featuring high-performance Adaptec 51645 RAID controllers with Intelligent Power Management (IPM). IPM is a unique Adaptec technology that dramatically reduces datacenter power and cooling costs by spinning down idle disks and providing a lower power mode for active disks.

“Powering and cooling server systems is a major portion of data center operating expenses. DEPO Storage Servers 3116 with high-performance Adaptec 51645 RAID controllers have allowed us to dramatically reduce these expenses.”

Vladimir Gabrieljan
Mail.ru vice-president and technical director.

Executive Summary

Challenge

Mail.ru required a high-performance 3U server solution that could store and process large amounts of data.

Solution

DEPO Storage Server 3116 with Adaptec RAID 51645 controllers.

Results

Successful implementation and trouble-free performance that will accommodate future scaling.



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Current solutions and future scalability

“The DEPO Storage Server 3116 is ideal for use as a network attached storage (NAS) or as a specialized data storage system in a storage area network (SAN),” says Victor Urusov, vice president of DEPO Computers. “It’s a high-performance, reliable data storage solution that allows datacenters to consolidate large data arrays and provide high speed access to them.”

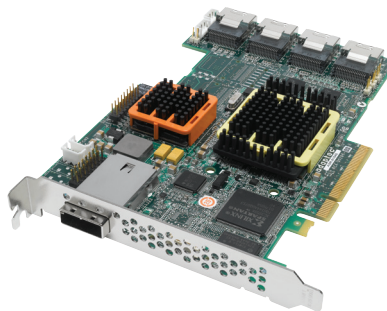
The DEPO Storage Server 3116 disk subsystem can accommodate up to 16 SATA or SAS HDDs with hot swapping support. The capacity can be increased up to 32TB, and wide scaling opportunities allow the total volume of the manageable data to be increased up to 100TB. The model is executed in 3U rackable form-factor.

“Mail.ru’s server upgrade required a reliable, high-performance server solution that could be implemented without service disruption. We recommended DEPO Storage Server 3116 with Adaptec 51645 RAID-controllers.”

— Victor Urusov
Vice President, DEPO Computers

About Adaptec RAID 51645

Adaptec RAID 51645 is a member of the Series 5 family of high-performance Adaptec Unified Serial™ (SATA/SAS) RAID controllers. Produced by PMC-Sierra, the premier Internet infrastructure semiconductor solution provider, Series 5 controllers offers both high I/O transaction and high bandwidth processing for use with cost-effective, high-capacity SATA drives or high-performance SAS drives.



The 20-port (16 internal/4 external) Adaptec RAID 51645 utilizes industry-leading dual core RAID on Chip (ROC), 512MB of DDR2 write cache, and connectivity with the latest x8 PCI-Express to deliver over 250,000 I/Os 1.2GBs. Using SAS expanders, it can connect up to 256 SATA/SAS devices. Adaptec Intelligent Power Management slashes power and cooling costs by spinning down idle disks and providing a lower power mode for active disks.

About the customer

Mail.ru

- Founded in 1998.
- The leading Russian online communications and entertainment company
- Website: www.Mail.ru

About the solution provider

DEPO Computers

- Founded in 1995.
- The leading Russian developer, manufacturer and supplier of computing equipments and complex IT-solutions
- The company produces storage systems, servers, workstations, PCs, thin clients, notebooks and rack systems and provides a full cycle on creation and service of enterprise IT infrastructures.
- Website: www.depocomputers.ru

The solution configuration

DEPO Storage Server 3116

- 3U rackable form factor
- Intel Xeon CPU
- Up to 16 SATA/SAS drives with hot swap (up to 32TB raw capacity)
- Adaptec Unified Serial® 51645 RAID controller
- 2x800W power supplies
- Windows Storage Server 2003
- Ideal as a NAS or a SAN storage node

Adaptec product

Adaptec Unified Serial® 51645 RAID controller

- 16 internal and 4 external SATA/SAS ports
- Cache memory: 512 DDR2
- Scalability: up to 256 devices
- Supported RAID level: 0, 1, 1E, 5, 5EE, 6, 10, 50, 60, JBOD
- Supported key technologies: Adaptec maxCache SSD caching, Intelligent Power Management



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