



Business-critical data in good hands



Challenge:

URSAPHARM, the German pharmaceutical manufacturer, needed a new data storage solution due to their increased demand in terms of data storage capacities, both in the production and manufacturing environments.

The requirements for a suitable storage solution included:

- The ability to **minimize potential downtimes**

- A system that could provide **high performance** and **lower latencies**

- The ability to deal with **higher data loads**

- Data storage in **separate locations** to increase overall security

- A proven **VMware certified system** due to the company's long-term reliance on ESXi

- Cost efficiency or **Low Total Cost of Ownership (TCO)**

- The system should have **High Availability (HA)** architecture for the highest performance



In order to understand why the data in this system has such enormous importance, it is essential to comprehend that production principles - principles like absolute transparency, coupled with constant quality controls in the manufacturing process - are an indispensable industry standard.

Monitoring software (as virtual machines) runs around the clock on VMware virtualization servers, accompanying and thoroughly documenting the entire production process. The collected data, for example, particles, cleanroom monitoring, or chromatography, must be kept on the storage system "almost real-time" and must be constantly reachable.

In order to find something that met all of the criteria the company was looking for, URSAPHARM turned to EUROstor, as they often have over the past 15 years of trust-based cooperation.

Solution:

After all key figures and expectations had been agreed upon, EUROstor offered URSAPHARM a customer-specific data storage system, specifically designed for their needs. Open-E JovianDSS was chosen as the supporting software.

The solution, consisting of two independent nodes, JBODs, and switches, had impressed the customer with its extreme reliability. This "redundancy at all levels" approach ensured smooth operation. In addition to synchronized data in two fire or building sections, it also offered additional protection thanks to built-in On- & Off-site Data Protection technology. A complete memory image was created with space-saving ZFS snapshots, which allowed a previous version to be restored at any time if viruses or ransomware attacks occurred.

Should a hardware defect occur, High Availability clustering allowed one of the devices to fail without affecting day-to-day business. In the event of a disaster, the software would automatically trigger a so-called "failover" which would switch the production nodes.

URSAPHARM was immediately impressed by the proposed timeframe of the migration and the complete integration of the new system. Profound knowledge in the data storage field and excellent technical support have rounded off the range of services.



Hardware Details:

Configuration per cluster node

Server:	ES-8700JDSS Cluster - FC Metro-Cluster
Chassis:	2U server chassis, 19 inch -Rackmount
Motherboard:	SuperMicro X11DPH-T
Power supply:	Redundant Power Supplies and System Fan
Processor:	2x Intel® Xeon® Gold 5222 Processor, 3.80GHz, 4 Cores – 8 Threads
RAM:	192 GB DDR4-2933 registered ECC DIMM
HBA:	2x Dual-Port QLogic 16-Gigabit Fibre Channel Adapter
Network interfaces:	2x 10GbE RJ45 onBoard 2x Dual Port 10 GbE SFP+
Boot:	2x SSD SATA (Mirrored - RAID 1)
Cache:	All -Flash RAM / SSD tiered

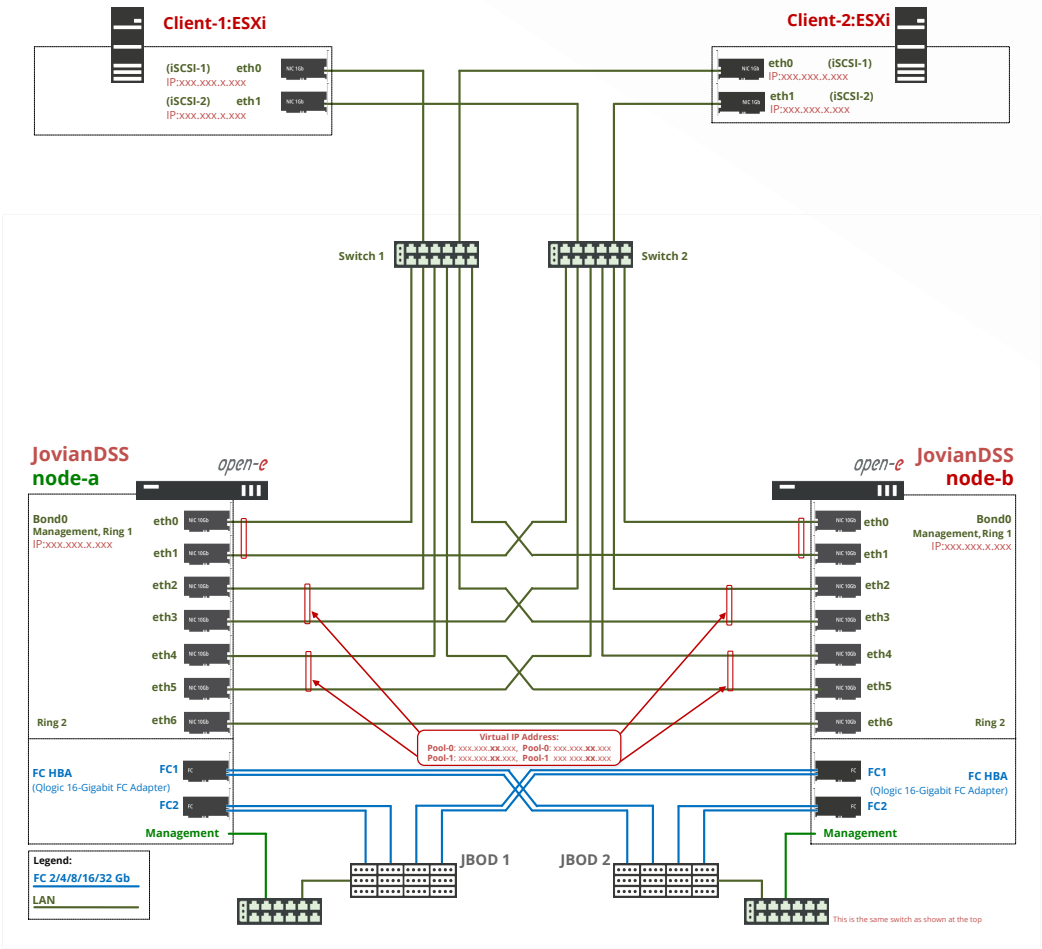
Storage configuration

JBOD:	2x JBOD - 2U, 19 inch rackmount, 25x 2.5 inch slots
SSD:	2x 20 pieces Samsung SAS SSD 1.92TB 12Gb/s, 2.5 inch
Zpool:	2x zpool - 10 mirror VDEVs
Storage Capacity:	29.88TiB usable divided into two zpools with active-active load balancing

SAN Metro Cluster

iSCSI & Ethernet connectivity

Fibre Channel High Availability Cluster with Double FC JBOD



Customer Feedback



"We've been using redundant storage systems from EUROstor for three generations now," says Stephan Schwarz, IT manager at URSAPHARM. "For us, some of the benefits of the new HA metro cluster include increased performance and improved system management through Open-E JovianDSS as well as the significantly increased storage capacity."

Highly competent employees, great personal advice, a high level of trustworthiness and ultimately a good price-performance ratio were all crucially important for our decision in favor of EUROstor. "

Stephan Schwarz, IT manager, URSAPHARM GmbH.





URSAPHARM

Arzneimittel GmbH



About URSAPHARM

URSAPHARM Arzneimittel GmbH - a leading pharmaceutical manufacturer from Saarland, Germany. For more than 40 years, the name URSAPHARM has stood for the consistent transfer of innovative pharmaceutical concepts into successful medical products. Since it was founded in 1974, the pharmaceutical manufacturer has developed into a globally operating group of companies. Numerous innovative products and patents secure the company's future and offer over 600 highly qualified employees at the headquarters in Saarbrücken and the sales countries excellent working conditions and promising future prospects. As a pharmaceutical manufacturer in particular, there are unique demands on IT. Essential factors, in addition to appropriate development, validation and training environment, are above all the availability, security, and reliability of the data in production as well as quality control.

More information at www.ursapharm.de

About EUROstor

EUROstor has been a manufacturer of storage systems since 2004. Originally, RAID systems were produced. Today the largest part of the product portfolio consists of server-based systems that function as flexible storage servers and are tailored to customers' needs. The solutions range from small file servers and CCTV storage (video surveillance) to high-availability storage clusters, scale-out clusters, and cloud solutions. EUROstor is based in Filderstadt near Stuttgart (Germany). Their customer base stretches across Europe and involves a wide variety of SMEs including universities, research institutes, and data centers. **More information at www.eurostor.com**

About Open-E

Open-E, founded in 1998, is a well-established developer of IP-based storage management software. Its flagship product, Open-E JovianDSS is a robust, award-winning storage application that offers excellent compatibility with industry standards. It's also the easiest to use and manage. Additionally, it is one of the most stable solutions on the market and an undisputed price performance leader. Thanks to its reputation, experience, and business reliability, Open-E has become the technology partner of choice for industry-leading IT companies. Open-E accounts for over 30,000 installations worldwide. It has received numerous industry awards and recognition. It also offers Open-E DSS V7. For further information about Open-E, its products, and partners, visit **www.open-e.com**



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