



Ultimate Storage Flexibility and Scalability with SUSE and Fujitsu

Volumes of data are growing exponentially and enterprises are turning to software-defined storage (SDS) to handle the onslaught. As your SDS options also expand, it's important to choose a solution that gives you the flexibility and scalability you require—as well as additional features and capabilities that reduce IT complexity and save you time and money. With SUSE® Enterprise Storage on Fujitsu Server PRIMERGY and Fujitsu PRIMEFLEX systems, you can get that ultimate SDS solution that empowers your enterprise to grow freely.

Software-Defined Storage from SUSE and Fujitsu at a Glance:

■ Get an enterprise-ready version...

of the open source, software-defined-storage solution Ceph built by trusted leaders in the Ceph community.

■ Cost-effectively scale your storage...

with per-node pricing, so per-gigabyte costs don't weigh you down.

■ Unify file, block and object storage...

in one solution.

■ Get an affordable backup solution...

to help cope with growing data storage demands or the need to store multiple backup copies of data.

■ Products:

SUSE Enterprise Storage
FUJITSU Server PRIMERGY
FUJITSU Integrated System PRIMEFLEX

Together, SUSE and Fujitsu have provided more than 15 years of innovative, reliable and open solutions that can simplify complex enterprise IT management and reduce IT expenses. Fujitsu offers on-premises, hosted and cloud-based solutions—featuring SUSE Linux Enterprise Server, SUSE OpenStack and SUSE Enterprise Storage—that enterprise customers can count on for high performance, efficiency and reliability.

Both SUSE and Fujitsu are closely involved in the open source project for Ceph—the SDS technology that forms the foundation of SUSE Enterprise Storage—and are members of the Ceph advisory board. The partners have a deep understanding of today's data storage challenges, and a wealth of expertise in how to overcome them.

Lately, Fujitsu has made major contributions to Ceph, including joining the performance optimization group to investigate the causes of bottlenecks, providing fix code for I/O performance and providing faster recovery technology by developing

erasure coding, which is a feature SUSE takes full advantage of in SUSE Enterprise Storage.

Affordable Scalability

SUSE Enterprise Storage allows you to deploy a unified block, object and file storage environment to reduce the capital and operational costs of storage infrastructure.

The solution has a flexible, cluster-based design for graceful, inexpensive upgrades and near-linear scaling. Pricing is based per node, not per gigabyte, so you can scale more cost-effectively. Save even more with reliable, industry-leading Fujitsu Server PRIMERGY and PRIMEFLEX systems instead of having to use expensive proprietary disk arrays.

Simplified Management and Operations

When you purchase the Fujitsu-SUSE storage solution, you get a one-stop shop for hardware, software and services.

SUSE Enterprise Storage on off-the-shelf servers reduces capital expenditures, lowering the cost per GB of enterprise-class storage deployments by as much as 50 percent in some cases.*

Consolidated support is as easy as calling Fujitsu for access to their engineers, who analyze issues. Fujitsu then works with SUSE L3 support to provide fixes and address the root cause of an issue.

While both Fujitsu Server PRIMERGY and Integrated System PRIMEFLEX provide excellent performance as a platform for SDS, PRIMEFLEX in particular can help you simplify your management burden. PRIMEFLEX is a line-up of powerful systems that are predefined, pre-integrated and pretested. They are offered as an all-in-one package that combines servers, storage, network connectivity and software. PRIMEFLEX solutions are delivered ready to run, or as customizable reference architectures, which can be easily adjusted to customer-specific requirements.

SUSE Enterprise Storage is self-managing and self-healing to reduce your management burden and costs. It uses DeepSea to provide easy installation and cluster setup, and openATTIC to simplify management and monitoring of the solution clusters.

* www.suse.com/solutions/software-defined-storage/

Using Ceph, a single system administrator can manage up to 3–4 PB of data, six times more than an administrator in an equivalent block-storage environment.

High Performance

To ensure that your SDS solution is running at peak performance, Fujitsu provides optimized deployment services for PRIMEFLEX. You can add SUSE Enterprise Storage as a storage option to your PRIMEFLEX environment and take advantage of those deployment services to get your software-defined storage environment configured the way you want it. Additional professional services, including assessment, design and customized integration, are available on request.

SUSE Enterprise Storage delivers high performance, too. It offers site-to-site replication and much faster recovery times when compared to tape backup, making it a viable disaster-recovery option. SUSE Enterprise Storage 5 offers up to double the write performance of previous releases, coupled with significant reductions in I/O latency through the use of BlueStore—which can help reduce data storage overhead by enabling data compression.

Flexible to Your Data Needs

The Fujitsu-SUSE storage solution is an ideal choice for a variety of uses:

- *Compliance archiving*
- *Data archive and bulk storage*
- *Disaster recovery or disk-based backup*
- *Storing streaming audio/video libraries*
- *Storage for internal/private cloud solution (OpenStack)*

The SUSE-Fujitsu Solution in Action

The [University of Valencia](#) in Valencia, Spain, needed to provide faster, more nimble online services as technology advanced—and its legacy data storage was creating a roadblock.

The university chose SUSE Enterprise Storage on Fujitsu hardware and got the unlimited scalability it needed, plus exceptionally high system resiliency and application availability through automated optimization and self-healing capabilities. The solution was three times faster than the traditional types of storage previously used by the university, which meant it could now deliver digital services faster and better to students and staff.

And thanks to the SUSE solution's cost-effectiveness, the university has saved significant amounts in storage costs. Systems Engineer Israel Ribot said: "By slashing expenses in data storage, we can invest more budget into new projects and services that attract increasing numbers of students, helping us to beat the competition."

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Learn More

Learn more about how SUSE and Fujitsu can give you the storage capacity for today and tomorrow's needs at suse.com/fujitsu.

“The SUSE solution immediately stood out as the right one for our needs, due to its ease of deployment, flexibility and cost-efficiency. SUSE Enterprise Storage offers us a smarter, more affordable way to keep up with surging data demands.”

ISRAEL RIBOT
Systems Engineer
University of Valencia

Contact us at:
www.suse.com