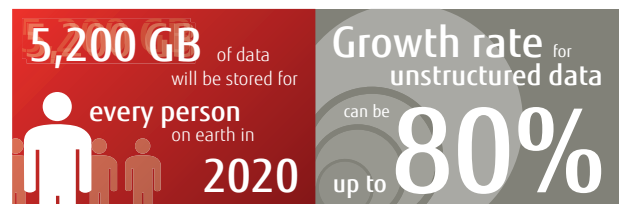


Ready for more
data than you can
imagine?

FUJITSU Hyperscale Storage
System ETERNUS CD10000 S2

FUJITSU Storage ETERNUS CD10000 S2 makes sure that you can cope with exponential data growth – even when mountains of data reach breathtaking heights.

Thanks to the scale-out architecture offered by ETERNUS CD10000 S2, you will be able to manage mass data fast, at low cost and without worry or any problems in terms of lifecycle and migration. The appliance combines software-defined storage (SDS) and enterprise-class service in one complete storage system, consistently based on open standards. This gives you nearly unlimited scalability for capacity and performance so that you can manage data growth with utmost efficiency – even in the petabyte range. But see this for yourself.



The masses of data that will be generated within the next few years seem unimaginable. The forecasts are staggering: For example, in 2017 some 106 petabytes (PB) of mobile data are expected every month. And in 2020, according to estimates, 5,200 GB of data will be stored for every person on earth, not to mention the 50 billion “things” that will be connected through the Internet. What’s more, according to Gartner the growth rate of all data is 40 to 60 percent, but the growth rate for unstructured data can be up to 80 percent in business enterprises.

shaping tomorrow with you

FUJITSU

TAKE ADVANTAGE OF OPEN SOURCE IN A COMPLETE ENTERPRISE-READY SOLUTION

ETERNUS CD10000 S2 integrates Ceph open source storage software in a turnkey solution. All components are evaluated, optimized and perfectly harmonized with each other. What's more, the Ceph functions are enhanced with software optimizations, extended automation and simple management. For example, Fujitsu has optimized the Ceph Erasure Code and provided it to the Community along with integrated GUI-based management. In addition, the system is supported as a solution in service and continues to undergo quality-controlled development. Instead of dealing with hassles, customers can drastically reduce the time needed to initiate productive operation, and they are able to manage extraordinarily huge masses of data with very little administration effort.

- Use open standards without risk
- Go into productive operation quickly
- Manage the entire system holistically
- Benefit from single-source support for the complete solution

SCALE YOUR STORAGE AS MUCH AND AS OFTEN AS YOU LIKE

Act now according to the motto "Think big. Start small." Just start with a minimum configuration of four storage nodes and then expand your system as often as you want – up to 224 nodes! In other words: You can begin with just a few terabytes and scale your system as needed over time – up to 50 petabytes and more. It's easy – all you do is add nodes. This allows you to linearly scale capacity and performance with every additional storage node.

- Invest in capacity only when you need it
- Balance speed, costs and space with various storage node profiles and redundancy levels
- Offer constantly high performance
- Consolidate various kinds of data in one universally usable system

AUTOMATICALLY BENEFIT FROM AN ALWAYS-ON BUSINESS

ETERNUS CD10000 S2 is an autonomous and self-healing system that identifies changing events and automatically takes appropriate action in response. The system offers a fault-tolerant architecture in which data is automatically and quickly restored if hard disks or complete storage nodes should ever fail. This minimizes administration work and costs. For even higher resilience, ETERNUS CD10000 S2 offers multisite disaster recovery by design. Thus cost-effective business continuity is guaranteed even in the event of a disaster.

- Benefit from a zero downtime architecture
- Minimize administration efforts to lower costs
- Prevent outages through maintenance or enhancements
- Avoid the headaches of complex and time-consuming disk rebuilds

EXTEND THE LIFECYCLE OF YOUR STORAGE SYSTEMS BY SEVERAL YEARS

The fact that ETERNUS CD10000 S2 is a software-defined storage solution makes it immortal. You can begin with a specific configuration and then upgrade it over the years with new hardware and software – you can even remove obsolete components gradually. This is possible without downtime and requires only minimum effort because the system itself recognizes changes in the infrastructure and automatically makes the adjustments required.

- Profit from maximum investment protection
- Reap the long-term benefits of an immortal system
- Avoid the need for migrations
- Leverage existing and new technologies at the same time

Optimized open standards
in **one** turnkey solution

Zero downtime architecture
for **always-on** business

Think big
– scale up to **224** storage nodes
Start small
– at least with **4** nodes

Extend the lifecycle by **several** years
with an **immortal** system

Manage exponential data growth
with ease
and **minimize TCO** per GB

Reach **project** targets
faster
with **validated** solutions

MANAGE THE GROWING MOUNTAINS OF DATA WITH UTMOST EFFICIENCY

With ETERNUS CD10000 S2 you can literally move mountains and drastically reduce the total cost of ownership (TCO) compared with traditional RAID storage systems at the same time. ETERNUS CD10000 S2 is delivered to the customer's site as an optimized turnkey solution based on leading open standards – with everything pre-installed and fully tested. This considerably reduces the cost of evaluation and implementation. Another significant factor is the cost of operation. Extensive automation and consistent management via GUI are two aspects that contribute to the extremely low operational costs of the ETERNUS CD10000 S2. The intelligent use of various storage nodes and configuration options is a third aspect because customers are able to strike the right balance between performance and capacity requirements, in addition to minimizing the costs of floor space and energy.

- Reduce project, procurement and implementation costs
- Drastically reduce your operating costs
- Reduce the TCO per GB in comparison with conventional high-capacity systems
- Manage unexpected data growth at expected estimated costs

MAKE YOUR LIFE EASIER WITH VALIDATED SOLUTIONS

ETERNUS CD10000 S2 is ideal for OpenStack projects and all scenarios where huge and often unexpected data growth needs to be managed. Typical users are cloud, IT and telecommunications enterprises and broadcasting companies – in other words, businesses that want to break new ground or take on challenges that demand the use of big data and business analytics. The holistic concept behind ETERNUS CD10000 S2 already offers validated solutions for such application scenarios. Fujitsu develops these based on best practices from customer projects. Validated solutions are available for OpenStack projects, for customers wanting to build online archives, for web services and cloud backup, not to mention enterprise file sharing projects.

- Reach your project targets much faster
- Reduce costly delays, risks and reworks during implementation and system operation
- Make sure you have the highest quality
- Reduce your project costs

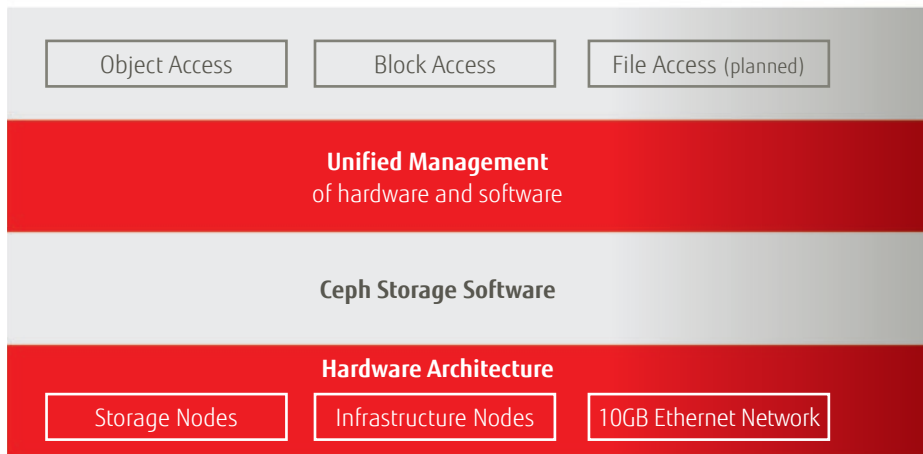


"With the new IT we changed the way we collaborate and share research information, not only in the state of Rhineland-Palatinate, but also in our international scientific activities. Fujitsu's ETERNUS CD10000 hyper-scale storage system contributes to our vision of IT structures serving the needs of our fast growing research capabilities."

Prof. Dr.-Ing. André Brinkmann
Head of Center for Data Processing
Johannes Gutenberg University Mainz, Germany

ETERNUS CD10000 S2

System overview

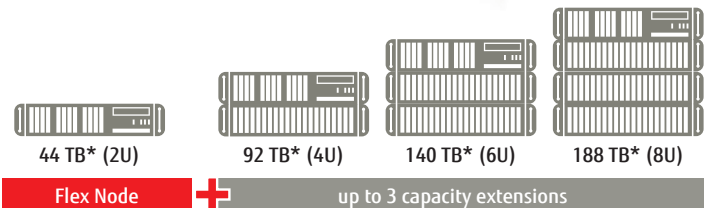


Configuration options

Flex Node:

Find the right balance between performance, capacity and cost!

This node type is well-suited for various applications and workloads. As it is based on a rack server, which can be enhanced with up to 3 capacity extensions, flexible options for scaling performance and capacity are possible. Upgrades with PCI SSDs as well as capacity enhancements can be conducted on-site.



FUJITSU Storage ETERNUS CD10000 Quick Start Edition

ETERNUS CD10000 Quick Start Edition offers you the easiest, fastest and most affordable way to discover the enormous potential of SDS.

ETERNUS CD10000 Quick Start Edition is suited for the evaluation of cloud-specific application scenarios such as OpenStack storage and cloud solutions in general, enterprise file sharing, streaming services, online archives and other storage solutions. The appliance offers enterprises and ISVs a complete test and development environment, and it is also ideal as a demo system and as a POC platform.

The appliance is so flexible that it can be used to configure and test almost any kind of scenario imaginable – even the setup and testing of disaster recovery configurations. Or demos of adding, removing or replacing storage nodes during online operations. Additional nodes can be activated as needed – for example, to test replica or erasure code configurations.

An additional plus: After completion of the evaluation phase, customers can seamlessly transfer all of their experiences into productive operation by simply adding their Quick Start Edition as a “building block” to their productive ETERNUS CD10000 S2 system.

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