FUJITSU

Turnkey data protection appliance with deduplication

Fujitsu Storage
ETERNUS CS800

Ultimate Data Protection for your Business

In the digital age, the share of business-critical data is skyrocketing. At the same time, the virtualization of infrastructures continues to advance rapidly and the cloud is increasingly being used for business processes. This poses many backup and recovery challenges for IT organizations. With the ETERNUS CS800 data protection appliance, they can reliably master all the challenges of today and tomorrow.

Backup and recovery becoming increasingly difficult

The more data-driven the business, the more dependent it becomes on data available around the clock. With the rapid growth of data and virtualized infrastructures, it is very difficult for companies to cost-effectively ensure reliable compliance with service levels, not to mention effective protection against disasters or cyber attacks. The simple reasons are incompatible technology silos, size and performance issues, difficulties in managing the backup of multiple sites, or complex management and disaster recovery.

How to resolve your data protection issues

Limited multiple backup solutions can cause many problems. But you can resolve them immediately with a solution that specifically meets all of your requirements. Simply switch to ETERNUS CS800. The turnkey data protection appliance ensures extremely fast backups and restores with the very latest in backup-to-disk technology. Powerful deduplication, flexible scalability, integrated replication for disaster recovery, easy management, plus support for all leading backup applications make ETERNUS CS800 the most complete and easy-to-use solution on the market. The appliance lets you consolidate heterogeneous environments comprehensively and achieve dramatic operational cost savings.

# How ETERNUS CS800 makes data protection easy and future-proof

Fast backup and restore

High-speed disks within the backup appliance accelerate the deduplication process and all aspects of the system performance. In addition, a special functionality, called SPEED mode, shifts the deduplication to a media server enabling faster backup up to 99 TB/h. The data is deduplicated there before being transferred to the ETERNUS CS800. Simultaneous disk access ensures that data backup and recovery are possible at the same time.

Excellent performance with up to **99** TB/h

Cost-effective backup through deduplication

ETERNUS CS800 uses a variable-length deduplication algorithm that reduces the backup storage by approximately 95%, depending on the data structure. You gain time for more complete backups and fast restores, even of older data. Because replication uses deduplicated blocks, you need significantly less bandwidth for the network connection between the replication source and replication target.

95% less disk space required
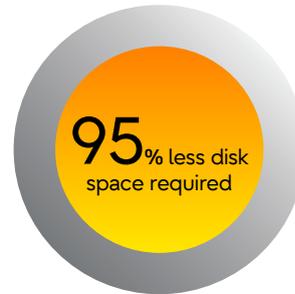
High and flexible scalability

ETERNUS CS800 offers leading scalability with a proportional price model and fair licensing. The appliance makes it easy to start with just the right capacity for the current backup environment and add capacity with high granularity. There are no hidden costs for unlocking additional features. Thus configurations can grow dynamically in step with rising capacity requirements. At the same time operations remain simple – with just "one box."

Leading scalability

Easy to deploy. Easy to manage

ETERNUS CS800 is a turnkey appliance which is easy to deploy and easy to manage. Its intuitive graphical user interface and integrated wizards for configuration tasks relieve administration workloads comprehensively. Intelligent automation provides additional relief and security. For example, the backup and replication process is automated – no administrator intervention is required.

Works very well with all backup software suites

ETERNUS CS800 supports all major backup software now available for easy integration in existing storage infrastructures. You can consolidate several backup solutions with one central ETERNUS CS800 – without replacing the backup software.
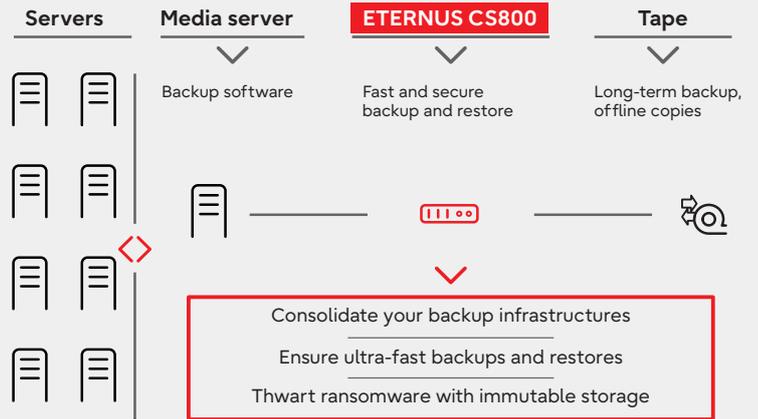
Integration with Veritas and Veeam opens up many options

Both Veritas NetBackup software and Veeam Data Mover Service (VDMS) support synthetic full backups on ETERNUS CS800 from previous full and incremental backups, allowing super-fast backup and recovery processes, while also reducing demands on client devices, backup servers and networks. Hybrid deduplication with activation of the SPEED mode gives backups an additional boost and reduces network loads. In addition, users can restore and put a virtual machine back into production by running it directly from the backup file, thus helping to minimize system downtime.

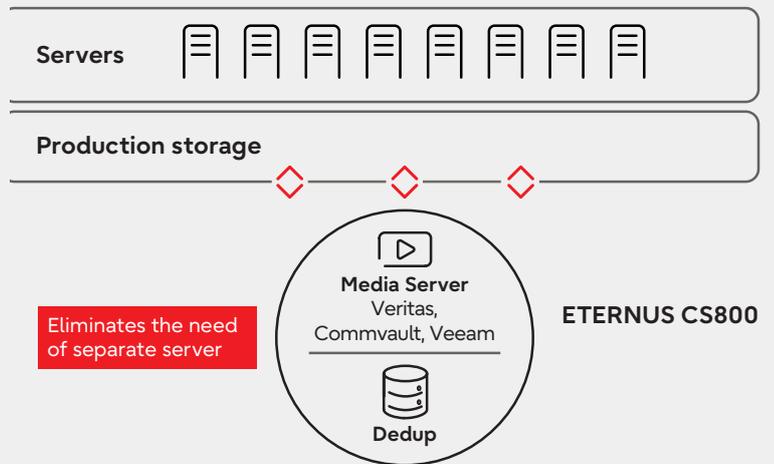## Disaster recovery through replication

The ETERNUS CS800 Data Protection Appliance offers replication options that use low-bandwidth links because only deduplication data is moved from site to site. This bidirectional replication is not limited to one location: It can be enhanced with parallel replication to another location or to an ETERNUS CS800 in the data center of a cloud service provider. Advanced deduplication drastically reduces required network bandwidth up to a factor of 20. An intelligent mechanism supports efficient full remote backups by transmitting only new and modified data blocks to the target site. The system constantly transfers these new data blocks to the remote site and updates the remote copies already stored there. Snapshots can also be taken and replicated to recover any day of an entire month. If necessary the data is encrypted for maximum security.

All you need is one high-performance data protection appliance

Servers	Media server	ETERNUS CS800	Tape
	Backup software	Fast and secure backup and restore	Long-term backup, offline copies

Consolidate your backup infrastructures

Ensure ultra-fast backups and restores

Thwart ransomware with immutable storage

Running backup software directly on ETERNUS CS800

With ETERNUS CS800 you can run instances of the backup application of your choice directly on the appliance without the need for an external backup server or proxy server.

Servers

Production storage

Eliminates the need of separate server

Media Server
Veritas, Commvault, Veeam

Dedup

ETERNUS CS800

Key functions and benefits at a glance

Fast backup and restore eliminates bottlenecks, ensures fast access to files

Cost-effective backup through deduplication saves time on backup and recovery, lowers media costs

High and flexible scalability allows cost-effective growth without hidden costs

Easy to deploy, easy to manage minimizes administration work, boosts reliability

Disaster recovery through replication makes unrivaled protection affordable

Immutable snapshots and path-to-tape provide optimal protection against ransomware and other cyber attacks

Support of all backup software suites simplifies consolidation in one central solution

Running backup software directly on ETERNUS CS800 eliminates the need to invest in media servers

Protect data from ransomware with ETERNUS CS800

Ransomware attacks are skyrocketing and can directly lead to downtime which subsequently damage your business success. An important component of an effective ransomware recovery plan is immutability through isolation of backup data. For this purpose, ETERNUS CS800 offers secure backup, a powerful solution for meeting backup needs and SLA requirements.

1. Path-To-Tape
The appliance offers an application-specific direct path-to-tape (PTT) for copying backup data to an external tape library like ETERNUS LT. Tape technology provides the last line of defense against ransomware with offline, air-gapped backup which prevents data from corruption. The backup data can be written directly from ETERNUS CS800 to the tape library without any load on the backup server. The management of the copy-to-tape process is performed by the backup software server.

2. Secure snapshot
By using the new feature, the ETERNUS CS800 places snapshot data to an isolated, secured location within the appliance. This data cannot be deleted or encrypted, making backups (snapshots) immutable which means high defense and fast recovery. Last but not least, secure snapshot meets the RTOs and RPOs required by SLAs and is free of charge.

Secure snapshot provides a first-level defense against ransomware:

1. Snapshots of shares taken on customer defined schedule and stored in a non-network addressable location on ETERNUS CS800

2. Kept for specified time, then automatically deleted (no manual deletion possible)

3. Admin chooses snapshot(s) to restore via management interface

Appliance

Backup data   Secure Snapshot

Immutable snapshots to isolate your data.

Never pay ransom again – No loss of reputation, customers, or trust.

No additional licensing fees required.

Quickly and successfully recover to meet SLAs.

Always be in control of your data. Never lose visibility with user-friendly management interface.

Ideal solution for a wide range of applications

- **For medium and large enterprises:**
  powerful replication of backup data for comprehensive consolidation

- **For branch offices with few or no IT resources:**
  high degree of automation for daily backup operations

- **For IT organizations with multiple backup applications:**
  a single appliance for all applications

- **For cloud service providers:**
  enable easy delivery of backup services

- **For physical, virtual and hyper-converged environments:**
  simple, reliable backup with one appliance

No matter what data protection challenges you face, Fujitsu provides a one-stop-shop for all data scenarios and storage needs. Combining Fujitsu storage systems with leading partner technologies, we safeguard data integrity and ensure always-on data availability - a key factor determining business success. With over 50 years of experience providing storage solutions, we master any challenge arising from digital transformation and data growth.

Visit us on **www.fujitsu.com/dataprotection** and discover more about Fujitsu data protection.