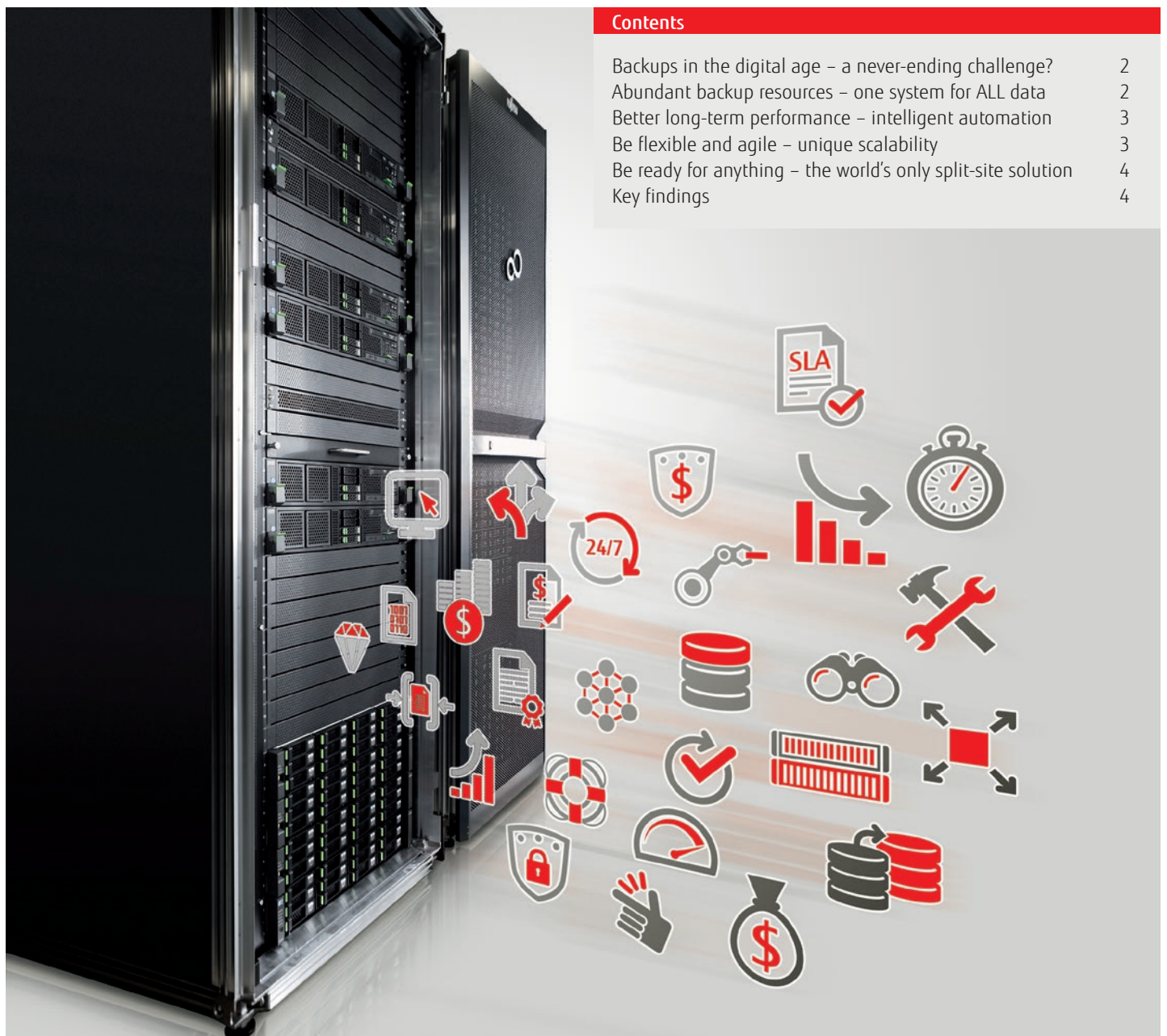


ETERNUS CS8000

Backup that moves mountains (of data)

Complex, expensive, time-consuming, slow, error-prone: Backup is a rather unpopular IT routine. But it is absolutely necessary. In light of the ongoing and rapid pace of digitalization in business processes, more and more IT managers realize that existing backup infrastructures are no longer suited for ever-changing data center requirements. This paper outlines how backup and archiving can be optimized to meet the challenges posed by digital business.

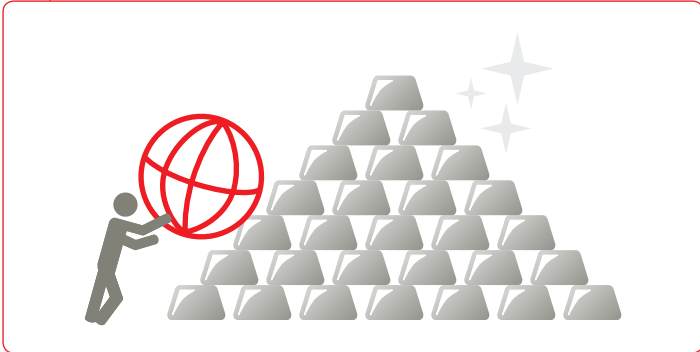


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Backups in the digital age – a never-ending challenge?



Data is very valuable – it is the “new gold” in the digital world. And this precious resource is growing exponentially in business enterprises. Those conducting backups in the terabyte and petabyte ranges are already reaching their capacity limits. The job requires more personnel than ever before, and infrastructure costs are skyrocketing. But what are IT departments to do? Digital businesses cannot afford to live with limited data availability, whether it be for just hours or even days. In light of huge data growth and the rise of unstructured data that must be archived, the situation may seem hopeless to many IT managers.

Master any backup challenge with one stroke:

Liberate your data from the limitations of classic infrastructures. Virtualize your backup infrastructures. Automate your processes for the entire data life cycle. And scale performance, capacity and functionality on demand to meet ever-changing requirements. FUJITSU Storage ETERNUS CS8000 is a unique solution that enables you to do all of this. It has been under ongoing development for many years by a user group which has constantly followed best practices from actual IT operations.

ETERNUS CS8000 automates backup and archiving for mainframes and open systems. The solution takes care of everything – you no longer need to intervene when it comes to backup and archiving processes. No matter how high the mountain of data in your business is, or how dynamically your requirements change in the future. You can move mountains (of data) with ETERNUS CS8000 for backup and archiving. Extremely fast. Extremely flexible. Extremely reliable. Extremely economical.



Abundant backup resources – one system for ALL data

- Infrastructure virtualization
- Intelligent automation
- Unique scalability
- Reduce complexity, simplify operations
- Reduce TCO
- Make backup and archiving future-proof
- Optimize once, benefit for ever

One solution for all backup data from mainframes and open systems

ETERNUS CS8000 separates data management from the backup software and provides a resource pool for mainframe and open system backups. This takes the complexity out of backup infrastructures. Backup applications can now do what they do best: Making backup copies and sending them to the backup target system. ETERNUS CS8000 supports all typical mainframes, open systems and backup software solutions – it has multi-client capability and ensures complete freedom of choice in the backend. Backups to disk with 150 TB/h, backups with 100% tape performance, parallel backups with deduplication and copy to tape: ETERNUS CS8000 does all of this faster, easier and more economically. Furthermore, **ETERNUS CS8000 reduces the TCO in complex backup environments by 40%**. In the future you will not have to worry about backup process any longer – even when deploying new platforms.

Real-life examples: facts and figures >>



Financial Services:
80% fewer tape drives,
EUR 1.4 million in savings



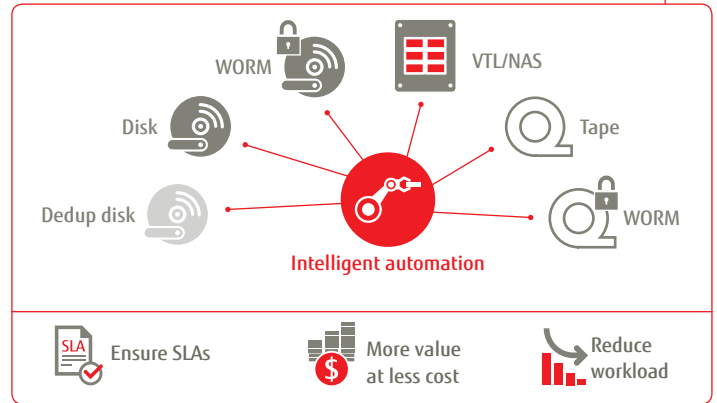
Tax Authority:
Backup environment costs
reduced by 60%



IT-Services:
ROI within 18 months

Better long-term performance – intelligent automation

Managing multi-layer backup environments and diverse SLAs is an enormously arduous task. ETERNUS CS8000 takes care of these matters for you. The solution can be implemented as a target system or can process data with high performance before being written to media such as tapes. ETERNUS CS8000 provides the optimal media mix in terms of capacity, performance and costs for SSD, disk, deduplication, tapes and WORM. It takes care of the copy policies, including local and remote copies in replication and DR scenarios. Automatic media migration allows users to profit from the benefits of the latest technologies at all times. Independent quality assurance and self-healing for tapes makes media management much easier than ever before. Information Lifecycle Management (ILM) for all of your data lets you offer highly efficient zero downtime operations and flexible service levels – without any stress or hassles. Everything is automatic.



Financial Services:
Many simultaneous backup processes, automated cross-media mix



Engineering:
100 backups simultaneously, administration cut by half

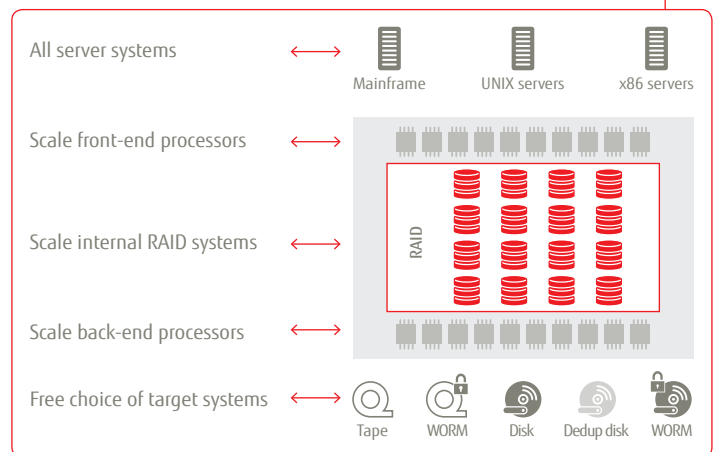


Insurance:
13 hours of administration reduced to just 1 hour

« Real-life examples: facts and figures

Be flexible and agile – unique scalability

ETERNUS CS8000 supports on-demand scalability of performance, capacity and functionality that leads to ongoing cost reduction. The modular grid architecture provides maximum freedom and offers remarkable latitude for frontend and backend processors, or the internal grid with high-performance RAID systems. Disk capacity is just one example: It can be extended from 19 TB up to 96 PB. Performance for backup AND recovery can be scaled from 8 TB/h to 150 TB/h for 1,800% more power. At the same time, for example with up to 10 connectable tape libraries, many exabytes of data can be managed transparently for the operating systems. As you can see, no matter how your business requirements change, ETERNUS CS8000 can take on every challenge!



Airline:
Gradual consolidation and flexible scalability of capacity and performance



Insurance:
Quadrupled data throughput

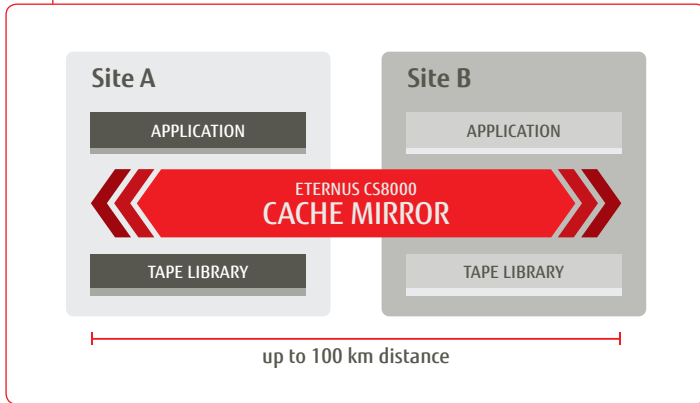


Financial Services:
Twice the backup speed simply through an expanded disk cache

« Real-life examples: facts and figures



Be ready for anything – the world's only split-site solution



ETERNUS CS8000 is the only solution worldwide that supports the distribution of one system across two separate geographic sites. This split-site configuration features a cache mirror. The automatic backup of all data is ensured at two sites located up to 100 km from each other. If there is a failure at one site, the workload is routed to the second site – the applications are not affected in any way. Thus, even during a disaster, business processes continue to run smoothly – and there is no need for manual intervention! This concept does not have a single point of failure, thus giving you an extremely efficient and economical solution for 24x7 non-stop protection of your mission-critical data.

Real-life examples:
facts and figures >>



Tax Authority:
Optimal availability for citizens,
businesses and internal users



Insurance:
Disaster protection for backup
and archive data



Statutory Pension Insurance:
Secure digital archiving of
important data such as
policyholders' pension files



Key findings

- Virtualization and resource pooling reduce the complexity of backup and archiving environments while reducing TCO by 40%
- Automation reduces workloads for IT administrators and improves service quality
- On-demand performance, capacity and functionality ensure enterprise flexibility and cut costs whenever requirements rise
- Innovative concepts like the split-site configuration make economical 24x7 non-stop operations possible

ETERNUS CS8000 combines virtualization, automation and extraordinary scalability in one modular zero-downtime architecture for backup and archiving – a world first!

"Fujitsu's backup/restore solution has enabled us not only to solve existing problems, but also to introduce an exceptionally high-performance and stable environment."

Dr. Andreas Thomé
Head of System Operations, Munich Re

"With ETERNUS CS8000, Fujitsu has reduced the stress on our team by making our back-up process simple, reliable and fast."

Victor Vieira
Storage Systems Manager, TAP

"The ETERNUS CS High End data protection appliance from Fujitsu gives us investment protection in terms of data backup scalability, plus freedom of choice when it comes to deploying server platforms such as main-frame and Linux systems."

Urs Häringer
Director of Technology Management,
Helsana Insurance AG