

Data Sheet

FUJITSU Storage ETERNUS Snapshot Manager Snapshot Management Software

Efficient Snapshot Management for Fujitsu Storage ETERNUS systems

Business-Centric Storage - ETERNUS AF/DX

Combining leading performance architecture with automated quality of service management Fujitsu Storage ETERNUS AF all-flash storage and ETERNUS DX hybrid storage align storage resources with business priorities, thus enabling higher system utilization and delivering increased system consolidation capabilities and a faster Return-on-Investment. The ETERNUS AF and ETERNUS DX are the perfect storage arrays, something every business can afford, with integrated and powerful features for business growth, efficiency and continuity.

ETERNUS SNAPSHOT MANAGER

The ETERNUS Snapshot Manager (ESM) provides efficient snapshots and data replication for ETERNUS storage systems. The software features deep application and virtual machine integration without scripting. The ESM offers granular, rapid and consistent recovery of data across physical, virtual and hyper-converged environments, minimizing downtime and operational efforts for data protection. The snapshot technology meets highest SLAs by enabling multiple Point-in-Time recovery points. Array-based snapshot replication simplifies disaster recovery and guarantees business continuity. In combination with the ETERNUS CS200c backup appliance, the ETERNUS Snapshot Manager adds the benefit of snapshot-based backup to disk lowering cost and risk.



**ETERNUS
Snapshot
Manager**



Features and Benefits

Main Features	Benefits
Compatibility <ul style="list-style-type: none">■ Snapshot support for industry's broadest application and file systems■ Snapshot-based backup in combination with ETERNUS CS200c	<ul style="list-style-type: none">■ Improves data availability and business productivity■ Eliminates multiple management and operational costs■ Ease of use - reduces administration efforts and IT resources
Consistency <ul style="list-style-type: none">■ Ensures coherent data handling for applications■ Supports array-based snapshot replication■ Generates an index and catalog of snapshot data	<ul style="list-style-type: none">■ Improves business continuity■ Increases protection for mission-critical data with low production impact■ Simplifies application protection and speeds up recovery process to minimize business disruption
Automation <ul style="list-style-type: none">■ Zero scripting■ Comprehensive reporting and scheduling capabilities	<ul style="list-style-type: none">■ Improves RPOs and RTOs by allowing for more frequent copies and faster restores■ Ease of use, frees up administration and IT resources■ Eliminates risk, improves business agility and increases efficiency
Management <ul style="list-style-type: none">■ Single console with central GUI for multiple storage arrays	<ul style="list-style-type: none">■ Ease of use■ Increases business efficiency and enhances productivity■ Lower infrastructure and operational cost■ Reduces risk, eliminates multiple management points
Granularity <ul style="list-style-type: none">■ Quickly find and recover individual files of indexed snapshots■ Granular and consistent recovery of applications and files	<ul style="list-style-type: none">■ Improves data availability and business productivity■ Speeds up and simplifies recovery processes

Topic

Compatibility

Fujitsu's ETERNUS Snapshot Manager (ESM) streamlines and simplifies snapshot management: ESM supports the major operating systems and guarantees application consistency of market-leading databases and applications across physical, virtual and hyper-converged environments. Broader service level commitments can be met without the complexity of multiple tools.

The software provides a complete view into snapshot data across applications, devices and operating systems, cutting administrative overheads and improving access, availability and IT efficiency. The feature eliminates the chaos of multiple management tools and processes and reduces operational costs.

Fujitsu Storage ETERNUS CS200c combined with the ESM software offers a very price-attractive solution for snapshot-based backup to disk ensuring business continuity and agility.

Consistency

The ESM automates and integrates application intelligence and the snapshot abilities of ETERNUS storage arrays. The software features array-based snapshot replication. Dedicated agents - adjusted to each application - quiesce the application and coordinate the snapshot operations. In addition the content of the snapshot is cataloged. The index contains all snapshot and replication copies, enabling intuitive search and granular recovery within and across all snapshots - whether on a single array, multiple arrays or in ETERNUS Storage Cluster configurations.

The software increases the protection for mission-critical data with minimal impact on the running application and production systems. It improves data availability and business productivity and guarantees business continuity.

Automation

The ESM simplifies, automates and standardizes all snapshot management tasks. The software eliminates scripting and manual mapping of file systems and applications. Existing script-based tools are replaced with an intuitive point-and-click interface, pull-down menu and wizards. The administrator saves valuable time by automating the scheduling, mounting, dismounting, and expiration of snapshots.

The software provides a complete view into snapshot data and replication copies across applications, devices and operating systems, cutting administrative overheads and improving access, availability and IT efficiency. The automation feature improves RPOs (Recovery Point Objectives) and RTOs (Recovery Time Objectives) by allowing for more frequent copies and faster restores.

Management

The integration of ETERNUS Snapshot Manager with array-based snapshot technologies enables the customer to unify protection and recovery operations across physical, virtual and hyper-converged environments, multiple ETERNUS storage systems and applications through a single console.

One ESM console for the complete environment eliminates multiple management points, operational cost, reduces risks and enhances productivity. The point-and-click and wizard-driven management interface enables ease of use.

Granularity

The recovery of snapshots is often done at the whole snapshot or VM level. By using ESM the administrator is able to look into the content of a snapshot without remounting, reverting or spinning up a whole VM. After snapshot creation, the snapshot is mounted on the ESM management server to index the contents of the snapshots. The generated index makes the snapshot browse-able and facilitates the restore of single files, e-mails or objects across physical and virtual environments.

The software supports another restore option: Snap revert, which recovers the whole snapshot. This feature is the fastest restore option and can be instrumental in meeting highest RTO requirements. Granular recovery and snap revert improve data availability and business productivity.

Application support

Microsoft Exchange

Protect Exchange DAG environments and deliver rapid granular recovery with near-zero production impact, enhanced self-service access to archived information in Exchange and understand your environment better.

Microsoft SQL Server

Protect SQL Server database and associated business applications (physical or virtual) within minutes. Recover just as fast without complex scripting, manual processes and multiple-point products to manage.

MySQL Server

The MySQL data agent provides flexibility in order to back up the MySQL database from different environments. The backup can be full or incremental of the entire instance, individual databases or files and file groups, as well as the transaction logs at any point of time. The product can be used to perform full system rebuilds and a granular recovery of the data.

PostgreSQL

The PostgreSQL Agent backs up and restores PostgreSQL system databases, user databases and transaction logs in your enterprise. The PostgreSQL Agent also performs both full system rebuilds and granular backup and recovery of your data.

Sybase

The Sybase Agent provides a unique, simplified end-to-end backup and recovery solution for Sybase system and user databases in your enterprise.

VMware

Solve the challenge of scalable VMware data protection with fast, easy, granular and low-impact data protection and recovery while gaining simplified and automated management of VMware deployments.

Hyper-V

The Virtual Server Agent provides a unified protection and recovery vehicle for all virtual machine data in a Hyper-V cluster or a stand-alone Hyper-V server. In addition to the complete protection of entire virtual machines for disaster recovery, the Virtual Server Agent also provides granular backup and recovery options. The additional options, such as customized automatic discovery or reporting, ensure that all your virtual machine data can be easily traced and retrieved as required.

Oracle, Oracle RAC

Back up your Oracle database and associated business applications efficiently and within minutes, recover data rapidly and gain clear insights into your environment.

SAP for Oracle, SAP HANA

Achieve near-instant granular recoveries and near-zero production impact with SAP-certified backup and restore capabilities with application-consistent snapshots. Automate indexing and cataloging of SAP documents and transactional data for fast search results.

IBM DB2

Gain comprehensive backup and recovery for IBM DB2 environments without the need to create and maintain scripts or manage numerous point products.

IBM Lotus Notes

The Lotus Domino Server iDataAgents provide the flexibility to backup and restore the database or individual mailboxes. You can perform a full or incremental backup of the entire instance, individual databases or mailboxes, and the transaction logs at any point in time.

Technical details

General Specification

Supported Devices	Hybrid Storage Systems	ETERNUS DX60 S4, DX100 S4, DX200 S4, DX500 S4, DX600 S4 ETERNUS DX60 S3, DX100 S3, DX200 S3, DX500 S3, DX600 S3 ETERNUS DX8700 S3, DX8900 S3 ETERNUS DX80 S2, DX90 S2, DX410 S2, DX440 S2, DX8700 S2
	All-Flash Arrays	ETERNUS AF250 S2, AF650 S2 ETERNUS AF250, AF650 ETERNUS DX200F

Supported Configurations

	ETERNUS DX S2/S3 with SAN Firmware ETERNUS DX S3/S4 with Unified Firmware (only SAN interface) ETERNUS AF with Unified Firmware (only SAN interface) ETERNUS Storage Cluster
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Supported Interfaces

SAN interface	FibreChannel, iSCSI
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Supported Applications

Microsoft	Exchange, SQL
IBM	DB2, Lotus Notes
Oracle	Oracle DB, Oracle RAC
SAP	SAP on Oracle, SAP HANA, Sybase
Open Source	MySQL, PostgreSQL

Supported Operating Systems

Microsoft	Windows
Linux	CentOS, Oracle Enterprise, Red Hat, SUSE Enterprise Server
Unix ⁽¹⁾	Solaris, HP-UX, IBM AIX
Hypervisor	VMware, Hyper-V

- Notes

Not all applications are available on all operating systems; for more information about supported agents see [Books Online documentation](#)

⁽¹⁾ Only on special release

More information

Fujitsu products, solutions & services

In addition to Fujitsu ETERNUS Snapshot Manager, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offerings. This allows customers to select from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing products

www.fujitsu.com/global/products/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu ETERNUS Snapshot Manager, please contact your Fujitsu sales representative, Fujitsu Business partner, or visit our website.

www.fujitsu.com/emeia/eternus/

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.

Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT. Please find further information at <http://www.fujitsu.com/global/about/environment>



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