

# DATASHEET

## FUJITSU ETERNUS SF ADVANCEDCOPY MANAGER V15.0

**ETERNUS SF ADVANCEDCOPY MANAGER IN CONJUNCTION WITH FUJITSU DISK STORAGE SYSTEMS PROVIDES THE STORAGE SYSTEM SOLUTIONS FOR HIGH-SPEED BACKUP/RESTORE AND REPLICATION ENSURING INTERNET BUSINESS SUCCESS.**

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### **STORAGE MANAGEMENT SOFTWARE ETERNUS SF**

Storage Management Software ETERNUS SF from Fujitsu reduces data preservation and management costs by directing the operation and management of ETERNUS® disk storage systems throughout their lifecycle. For today's complicated storage environments, ETERNUS SF helps to achieve business continuity and storage resource optimization in complex IT environments.

### **ETERNUS SF ADVANCEDCOPY MANAGER**

While data is growing exponentially, its importance is also growing from regulatory compliance and business continuity standpoints.

So the efficient and easy backup of large volumes of data becomes a critical issue.

Fujitsu ETERNUS SF AdvancedCopy Manager, together with ETERNUS disk storage system from Fujitsu, achieves high-speed backup/restore and replication operations using the AdvancedCopy function. Database operation can also be backed up without bringing them offline in conjunction with Oracle®, SQL Server® and Exchange Server.

ETERNUS SF AdvancedCopy Manager, as a key storage solution component, supports Internet business success and the achievement of continuous 24 x 7 operations.



# TECHNICAL DETAILS

MAIN FEATURES	BENEFITS
<p><b>EASY SETUP</b></p> <ul style="list-style-type: none"> <li>■ Wizard based ETERNUS disk storage system copy setup.</li> <li>■ Common operation for local &amp; remote replication</li> <li>■ Out-of-Band and In-Band management</li> </ul> <p><b>Integrated backup to support physical environments and virtualized environments</b></p> <ul style="list-style-type: none"> <li>■ Integrated manner of backup operations for virtualized environments and physical environments</li> <li>■ Supports VMware® VMFS and Microsoft® Hyper-V® CSV</li> </ul> <p><b>Achieving backup operation without stopping database system</b></p> <ul style="list-style-type: none"> <li>■ Supports major database systems, Oracle, SymfoWare®, SQL Server, DB2® and Exchange Server</li> <li>■ Online database system backup</li> </ul> <p><b>Thin Provisioning</b></p> <ul style="list-style-type: none"> <li>■ Thin replication for lower bandwidth utilization and efficient resource utilization.</li> <li>■ Backup of only the physical blocks being used</li> </ul> <p><b>Backup with reduced power consumption</b></p> <ul style="list-style-type: none"> <li>■ Backup disks are spun only during the backup operation</li> <li>■ Assessment of the power saving efficiency by power consumption and temperature with ETERNUS SF Storage Cruiser</li> </ul> <p><b>Disaster recovery solution</b></p> <ul style="list-style-type: none"> <li>■ Synchronous and asynchronous array-based replication</li> <li>■ SAN and WAN distance</li> <li>■ Automated failover with VMware Site Recovery Manager</li> </ul>	<ul style="list-style-type: none"> <li>■ Reduces administrator's initial learning curve</li> </ul> <ul style="list-style-type: none"> <li>■ Reduces OPEX in virtualized environments</li> <li>■ Reduces administrator's load by integrated method</li> </ul> <ul style="list-style-type: none"> <li>■ 24 x 7 continuous business operation</li> <li>■ Moreover, with data protection</li> <li>■ Compliance</li> </ul> <ul style="list-style-type: none"> <li>■ Pay as customer needs</li> <li>■ Green IT, reduces power consumption</li> <li>■ Reduces CAPEX and OPEX</li> </ul> <ul style="list-style-type: none"> <li>■ Green IT, reduces power consumption</li> <li>■ Reduces OPEX</li> </ul> <ul style="list-style-type: none"> <li>■ Optimize IT resources needed to protect business operations with server free replication</li> <li>■ Disaster tolerant business operation</li> <li>■ Secured and fast disaster recovery</li> </ul>

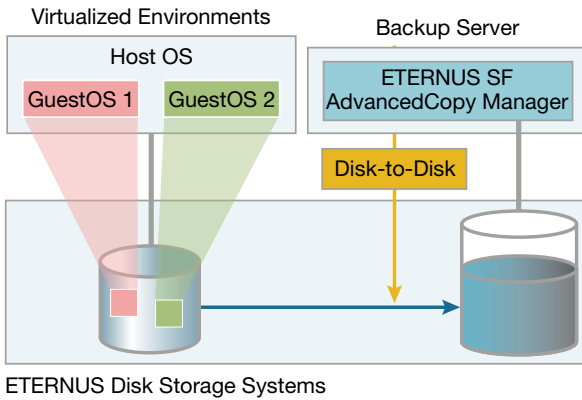
## EASY UPGRADE

Simply entering a license key into ETERNUS SF V15 software makes the shift to enterprise storage management software (ETERNUS SF Storage Cruiser and ETERNUS SF AdvancedCopy Manager). This helps cutting off procedures for re-construction efforts of environment and protecting investment.

# TECHNICAL DETAILS

## INTEGRATED BACKUP TO SUPPORT PHYSICAL ENVIRONMENTS AND VIRTUALIZED ENVIRONMENTS

In both physical environments and virtualized environments, disk-to-disk backup operations on a per LUN basis are available for resources to be backed up. They are also applicable to virtual machine resources in a virtualized environment built using Windows Server 2008 Hyper-V or VMware VMFS. Since it is not needed to change the operation for each environment, the complexity of operations and the increase of operational costs can be held down even for a change to virtualized environment from physical environment. In addition, a backup server can perform backup processes without imposing loads on the operating system.



## ACHIEVING BACKUP OPERATION WITHOUT STOPPING DATABASE SYSTEM

ETERNUS SF AdvancedCopy Manager can perform backup operations in conjunction with Oracle, SymfoWare, Microsoft SQL Server, DB2 and Microsoft Exchange Server without stopping database operations, allowing for 24 x 7 continuous application operations.

## ACHIEVING BACKUP OPERATION WITHOUT STOPPING HYPER-V GUEST OS

ETERNUS SF AdvancedCopy Manager can perform backup operations in cooperation with Hyper-V without stopping guest OS operations via VSSHP.

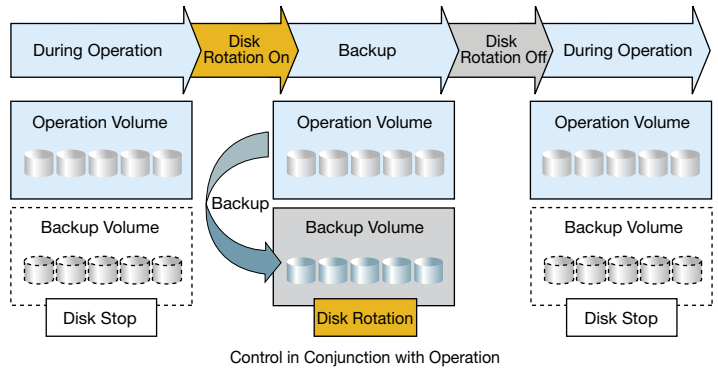
## THIN PROVISIONING

The ETERNUS SF AdvancedCopy Manager replicates Thin Provisioning Volumes in ETERNUS disk storage. The ETERNUS SF AdvancedCopy Manager enables backup of only the physical volume being used, reducing the load on physical storage resources.

## BACKUP WITH REDUCED POWER CONSUMPTION

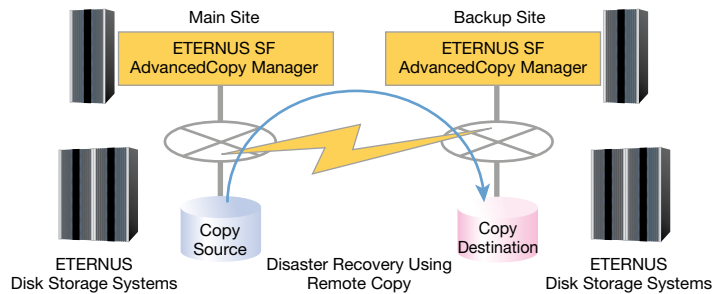
ETERNUS SF AdvancedCopy Manager reduces storage power consumption by rotating backup disks but only during backup operations. For example, in backup operations using an ETERNUS DX80 disk storage system, power consumption can be reduced by 10% (\*Note 1). In addition, in cooperation with ETERNUS SF Storage Cruiser, power consumption and temperature can be visualized to check the power saving efficiency.

\*Note 1: When operating backup volumes for 5 hours a day in the system environment configured with 36 450GB disk drives (RAID5) and 36 1TB disk drives (RAID5).



## DISASTER RECOVERY SOLUTION

ETERNUS SF AdvancedCopy Manager supports remote copy capability using ETERNUS disk storage systems connected via WAN. Secure disaster recovery can be achieved by allocating ETERNUS Disk storage systems for backup data storage at quake-proof and other disaster proof locations.



# TECHNICAL DETAILS

## GENERAL SPECIFICATION

<b>Supported Devices</b>	<b>Disk Storage Systems</b>	ETERNUS DX60/DX 60 S2/DX80/DX80 S2/DX90/DX90 S2 ETERNUS DX410/DX410 S2/DX440/DX440 S2 ETERNUS DX8100/DX8400/DX8700 ETERNUS2000, ETERNUS4000 (except M80/M100), ETERNUS8000
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## INSTALLING SPECIFICATION

<b>Manager Platform</b>	<b>Solaris</b>	Solaris® 10, Solaris 9
	<b>Windows</b>	Microsoft Windows Server® 2008 R2 Microsoft Windows Server 2008 Microsoft Windows Server 2003 R2 Microsoft Windows Server 2003
	<b>Linux</b>	Red Hat® Enterprise Linux® 6 Red Hat Enterprise Linux 5
	<b>VMware</b>	VMware vSphere 5 VMware vSphere 4/4.1
	<b>Hyper-V</b>	Hyper-V 2.0
	<b>Agent Platform</b>	<b>Solaris</b>
<b>Windows</b>		Microsoft Windows Server 2008 R2 Microsoft Windows Server 2008 Microsoft Windows Server 2003 R2 Microsoft Windows Server 2003
	<b>Linux</b>	Red Hat Enterprise Linux 6 Red Hat Enterprise Linux 5 Red Hat Enterprise Linux AS v.4 Red Hat Enterprise Linux ES v.4 SUSE® Linux Enterprise Server 11
	<b>Unix</b>	HP-UX® 11i v2/v3 (IPF) HP-UX v2/v3 (PA-RISC), HP-UX 11i v1, HP-UX 11.0 AIX® 5L (5.1/5.2/5.3)
	<b>VMware</b>	VMware® vSphere 5 VMware® vSphere 4/4.1 VMware® Infrastructure 3

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## FUJITSU PLATFORM SOLUTIONS

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

### Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure-as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

### Computing products

[www.fujitsu.com/global/services/computing/](http://www.fujitsu.com/global/services/computing/)

- PRIMERGY: Industrial standard server
- SPARC Enterprise: UNIX server
- PRIMEQUEST: Mission-critical IA server
- ETERNUS: Storage system

### Software

[www.fujitsu.com/software/](http://www.fujitsu.com/software/)

- Interstage: Application infrastructure software
- Systemwalker: system management software