

Open-E Data Storage Server DSS

Open-E[®] Data Storage Server (DSS[™])

is a unified file and block-level storage management software application, with support for IP (GbE and 10GbE), Fibre Channel and Infiniband network interfaces. DSS offers NAS, iSCSI and Fibre Channel (both target and initiator) functionality in a single application.

Open-E DSS is a cost-effective, reliable storage platform with many usage models including file sharing, backup and recovery, storage consolidation, and disaster recovery.

Open-E DSS is designed with both the simplicity and ease-of-use demanded by SMB users, and the advanced features required by Enterprise users. Cost effective solutions such as Automatic Failover for high availability clusters, Remote Replication for disaster recovery and multiple scheduled Snapshots for data protection are now available to businesses of all sizes.

Open-E DSS Key Benefits



Easy to use, GUI based management provides performance and security



Reliable disk based backup and recovery, along with Snapshot capability enable fast and reliable backup and restore



IP based storage management combines NAS and iSCSI functionality for centralized storage and storage consolidation



Easy to implement remote Replication, at block or volume level, enables cost-effective disaster recovery

DSS is a robust, fourth generation IP-storage software offering from Open-E. With over 10,000 customer installations since 2003, DSS is a stable, field-proven storage platform on which you can trust for deploying your company's business-critical data.



Advanced Data Protection Capabilities

The centralization of valuable data on an Open-E DSS server provides comprehensive and cost-effective data protection. Open-E DSS integrates, at no additional cost, critical features such as, Data and Volume Replication, Snapshot Copy, Automatic Failover and Backup and Restore applications for proactive and comprehensive protection of all stored information.

Integrated Data and Volume Replication

DSS Data and Volume Replication provide asynchronous and synchronous replication to copy critical company data to a secondary site in case of a disaster. Open-E DSS supports multi-master Data Replication with scheduling, synchronous iSCSI Volume Replication and bandwidth throttling. This increases data availability by creating multiple copies of data on remote servers over local area networks (LANs) or wide area networks (WANs) using the integrated block-based replication technologies.

Snapshot

Open-E DSS Snapshot Copy provides an instantaneous point-in-time copy of data using a robust copy-on-write functionality. Snapshots can then be used for fast backup and restore of data in case of a loss of a server, human error or natural disaster.

Automatic Failover

Open-E DSS supports Automatic Failover by using virtual IP addresses via the iSCSI protocol. In the event of either a failure or a scheduled maintenance of the primary server, Open-E DSS can be configured to automatically switch over to a secondary storage server. The Automatic Failover function enhances the fault tolerance level, a key requirement for many business critical environments.

Intelligent Backup and Restore

Open-E DSS integrates intelligent backup and restore applications for reliable and cost-effective data protection. Support for Virtual Tapes (VT) virtualizes disk storage as tape hardware and enables the integration of Open-E DSS with existing archiving policies. DSS also supports industry leading backup software including Veritas, CA, ARCserve and others.



List of features DSS

ADMINISTRATION	
Web-based Graphical User Interface	\sim
Secured Administration Access	\checkmark
Console Tools	\checkmark
Tuning Tools	\checkmark
Remote Access for Console	
Automated Undating of OS	
Task Manager and Sebedule Manager	
Task Mallager allu Scheuule Mallager	<u> </u>
To do list for quick setup	V
User Interface in Japanese, German, Russian, English languages	\checkmark
NETWORK MANAGEMENT	
DHCP Client	\checkmark
Multiple Network Interface Card Support	\checkmark
Teaming/Bonding (including Adapter Fault Tolerance)	\checkmark
10 Gb Ethernet Support	\checkmark
Infinihand Support	
Provy settings	
IP-soc	
II - SCC	
Jumbo Frames Support	\checkmark
STURAGE MANAGEMENT	
Software ISCSI Initiator	\checkmark
Software RAID 0, 1, 5, 6 with E-Mail Notification	\sim
Multiple Hardware RAID Controller Support	\checkmark
Multiple FibreChannel HBA Support (initatior & target mode)	\checkmark
Support for over 2TB Physical and Logical Volumes	\checkmark
Support for over 16TB Logical Volumes (in 64-bit mode)	
Multiple Spanshot (multiple active spanshots per one LV at a time)	
Multiple Logical Volume & Groups	- Č
Online Logical Volume Expansion	
Current for Online Consolity Expansion	× 4
Support for Unline Capacity Expansion	<u> </u>
Volume Replication	\checkmark
MONITORING	
Hardware Monitoring	\checkmark
SNMP v2, v3	\sim
E-Mail Notification	\checkmark
Log Function	\checkmark
HARDWARE SUPPORT	
Multiple CPU Support (32x)	
LIPS and Network LIPS Support	
	v
Data Daplication	
Windows Active Directory / Primary Domain Controller	\checkmark
Support for Network Information Service (NIS)	\checkmark
Internal and External LDAP	\sim
ADS & NIS User / Group ID Synchronization	\sim
File System with Journaling Support	\checkmark
User and Group Quota Control	\checkmark
Antivirus (shares and online scanning for SMB protocol)	\checkmark
SUPPORTED NETWORK CLIENTS	
Microsoft Windows Linux Unix Mac OS 80 90 X 104	
	v
SMP/CIES ETD Segure ETD UTTD Apple Talk NES v2 v2	
	\checkmark
SPECIFIC ISCSI FUNCTIONALITY	
IP Address Restrictions for a Target	\checkmark
CHAP User Management	\checkmark
MPIO Support	\sim
iSCSI Failover**	\checkmark
BACKUP and RESTORE FUNCTIONALITY	
Local Backup	\checkmark
Integrated Backup System	V
NAS Data Replication	
Virtual Tanes	
Support for Tano Librarias Autoloador	
Tapa Detention Time	
NEW! WORM support (Write Unce Ready Many)	
	\checkmark
NEW! NDMP support (Network Data Management Protocol)	✓ ✓
NEW! NDMP support (Network Data Management Protocol) OTHER	✓ ✓
NEW! NDMP support (Network Data Management Protocol) OTHER Help with search and index	> > >





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Network Data Management **Protocol** (NDMP)

Open-E DSS also features a simple implementation of NDMP. NDMP uses a common data format and architecture for backup and recovery of network file servers, speeding up the process and ensuring interoperability between vendors.

WORM (Write Once, Read Many)

Open-É DSS also supports WORM technology, allowing data to be permanently written to disk. The data is then read only and can be read any number of times. To prevent accidental modification, data cannot be erased. WORM is a critical feature for many organizations including government agencies and large enterprises.

Antivirus Software

The Open-E DSS integrated Antivirus software will protect the storage against viruses by scanning for viruses at predefined points in time. Also, files transferred via the SMB/CIFS protocol can be scanned during the write process to the storage device.

Centralized Management

Open-E DSS includes an easy to use management GUI that provides a centralized view of all data under management. The GUI gives you a view to manage Data Replication, Volume Replication, Backup processes and Snapshot Copy. The GUI enables administrators to more efficiently manage the protection of data and storage across all IT resources.

Software RAID with Hardware **RAID Functionality**

The integrated software RAID in Open-E DSS offers many advanced features, which were previously available only on hardware RAID controllers. Today, without additional or dedicated hardware, you can benefit from RAID 0, 1 or even higher performance RAID 5 and 6 (comparable with hardware RAID controllers), with software support for Hot Plug or Hot Spare (in one RAID array).

OS Reliability and Security

Open-E DSS is a complete operating system that easily installs on any server. Users have said that Open-E DSS one of the easiest to install software storage solutions on the market. Additionally, Open-E Data Storage Server recognizes most industry-standard hardware and automatically installs drivers (*) of SAS and RAID controllers, FC-HBAs and Ethernet cards.

Optimized OS Performance

Independent tests have shown that the Open-E storage software offers one of the highest data throughput and performance of any product on the market. This makes Open-E DSS especially suitable for network environments with many clients or for storage applications requiring high data throughput and I/O such as video editing and streaming, IPTV and others.

Secure Updating

To optimize the updating process of Open-E DSS the USB-DOM contains a shadow copy of the OS. In case of an update failure the storage system can be easily switched to the former version of the Open-E DSS.

Designed for Integration into Heterogeneous Networks

Integration of Open-E DSS into heterogeneous network environment takes no more than 10 minutes. Built in Windows Domain, NIS or LDAP support allows for easy expansion of the existing IT infrastructure. Additionally, DSS includes heterogeneous support for protocols such as SMB/CIFS, HTTP, NFS, AppleTalk, FTP and Secure FTP, allowing data to be easily shared among different platforms.

Seamless Integration and Heterogeneous Support

Open-E DSS provides native integration with Windows@Active Directory, including Group Policy Objects (GPO) and synchronization of UIDs/GIDs between NAS and NIS Domain.

* For supported hardware, please visit www.open-e.com/compatibility

* Storage Capacity can be extended by additional licenses

** Cluster functionality

Pay as you grow Storage Capacity*