Open-E Data Storage Software
DSS V6

Open-E Data Storage Software (DSS) V6 is a unified file and block-level storage management Operating System, providing support for multiple 1GbE, 10GbE, Fibre Channel and Infiniband network interfaces. Open-E DSS V6 offers NAS, iSCSI and Fibre Channel (both target and initiator) functionality in a single application.

Open-E DSS V6 is a cost-effective, reliable storage platform with many usage models including file sharing, backup and recovery, storage consolidation, and disaster recovery features.

Open-E DSS V6 is designed for simplicity and the ease-of-use demanded by SMB users, along with the advanced features required by Enterprise users. Solutions such as Automatic Failover for high availability clusters, Remote Replication for disaster recovery and multiple scheduled Snapshots for data protection are now cost-effectively available to businesses of all sizes.

Open-E DSS V6 Key Benefits

NEW

New features such as NAS (NFS) Failover and SSD-Cached RAID Support

Simple to use **GUI based management** enables administrators to more efficiently manage the protection of data and storage

High stability and best-in-class performance for optimal reliability

Exceptional cost-effectiveness which means enterprise functionality without the enterprise costs

Secure disk based backup and recovery functions, along with Snapshot capability enable fast and reliable **backup and restore** of your data

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

Open-E DSS V6 is a robust, sixth generation IP-storage operating system offered by Open-E. With over 20,000 customer installations since 2003, Open-E DSS V6 is a stable, field-proven storage platform on which you can rely for deploying your company's business-critical data.

Advanced Data Protection Capabilities

The placement of valuable data on an Open-E DSS V6 powered server provides comprehensive and cost-effective data protection. Open-E DSS V6 integrates critical features such as Data and Volume Replication, Snapshot Copy, Automatic Failover, and Backup and Restore for proactive and comprehensive protection of all stored information.

Integrated Data and Volume Replication

Open-E DSS V6 provides asynchronous Data Replication (NAS) and Synchronous Volume Replication (iSCSI, NAS, Fibre Channel) to replicate critical company data to a secondary server in case of a failure or disaster. Open-E DSS V6 supports multi-master, Asynchronous Data Replication with scheduling, Synchronous iSCSI / NAS / FC Volume Replication and bandwidth throttling. This ensures 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 V6 Snapshot Copy provides an instantaneous point-in-time copy of data using robust copy-on-write functionality. Snapshots can then be used for fast restore of data in case of human or application error and enable scheduled data replication and incremental backup.

Automatic Failover for NAS (NFS) and iSCSI

Open-E DSS V6 supports Automatic Failover by using virtual IP Addresses via the iSCSI and NFS protocol. In the event of either a failure or scheduled maintenance of the primary server, Open-E DSS V6 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 critical business environments.

Intelligent Backup and Restore

Open-E DSS V6 integrates an intelligent backup and restore application for reliable and cost-effective data protection. Thanks to API based script-controlled snapshots administrators can make consistent backups of running databases without special backup agents. Support for creating Virtual Tapes virtualizes disk storage in place of tape hardware and enables much faster backup and restore operations. Open-E DSS V6 also supports industry leading backup software agents including BackupExec®, BrightStor®, Retroclient® and others.

![open-e](open-e logo)

List of features Open-E DSS V6

ADMINISTRATION
Web-based Graphical User Interface
Improved design and speed of the GUI
Secure Administration Access
Tuning Tools
Remote Access for Console
Multiple Management Levels
Automated Update of OS
Rollback to Previous OS
Task Manager
User Interface in German or English
Schedule Manager

NETWORK MANAGEMENT
Single Network Interface Card Support
Multiple Network Interface Card Support
Teaming/Bonding (including Adapter Fault Tolerance)
10 Gb Ethernet Support
Infiniband Support
Jumbo Frames Support

STORAGE MANAGEMENT
Software iSCSI Initiator
Software RAID 0, 1, 5, 6 with E-Mail Notification
Degraded Mode for S/W RAID 1, 5, 6
S.M.A.R.T. with E-Mail Notification
Single and Multiple Hardware RAID Controller Support
Multiple FibreChannel HBA Support (initiator mode)
Multiple FibreChannel HBA Support (target mode)
Support for Logical Volumes over 16 TB
Multiple Snapshots (multiple active snapshots per one LV at a time)
Multiple Logical Volumes and Groups
Online Logical Volume Expansion
Support for Online Capacity Expansion
Built-in, SNMP based monitoring system

STORAGE MANAGEMENT / REPLICATIONS
Synchronous Volume Replication over LAN with iSCSI Failover
Synchronous Volume Replication over LAN with NAS (NFS) Failover****
Data Replication over LAN
Data Replication over WAN

MONITORING
Hardware Monitoring
SNMP v2, v3
E-mail Notification
Log Function

HARDWARE SUPPORT
NEW! SSD-Cached RAID Support
Multiple CPU Support (32x)
UPS and Network UPS Support

SPECIFIC NAS FUNCTIONALITY
NEW! NFS Failover*/****
Windows Active Directory / Primary Domain Controller
Support for Network Information Service (NIS)
Internal and External LDAP
File System with Journaling Support
User and Group Quota Control
Antivirus

SUPPORTED NETWORK CLIENTS
Microsoft Windows, Linux, UNIX, Mac OS 8.0, 9.0, X

SUPPORTED NETWORK FILE PROTOCOL
SMB/CIFS, FTP, Secure FTP, HTTP, Apple Talk, NFS v2, v3

SPECIFIC iSCSI FUNCTIONALITY
IP Address Restrictions for a Target
CHAP User Management
MPIO Support
iSCSI Failover*
SCSI-3 Persistent Reservation Support

BACKUP UTILITY
Local Backup
Integrated Backup System
Virtual Tapes
Support for Tape Libraries, Autoloaders
Tape Retention Time
WORM Support (Write Once Read Many)
NDMP v3.0 Support (Network Data Management Protocol)**
USB Storage Support for Dynamic Disk
Backup-Agents (Backup Exec®, Retrospect®, BrightStor®)

OTHER
Installable Version
Improved, Modular Software Architecture
Help feature with search and index
Extended save and restore settings
Connection Status
Session Management
Initially Supported Storage Capacity 4/8/16***/Unlimited (TB)

* Cluster functionality   ** Advanced Backup functionality   *** Storage Capacity can be extended by additional licenses
**** An additional License Extension is sold separately for this feature

New Features of Open-E DSS V6

NAS (NFS) Failover
If the primary storage server fails, the secondary one automatically takes over seamlessly and storage clients continue to operate without noticing the failure.

SSD-Cached RAID support
With the addition of SSD a significant I/O performance boost is provided. Currently Adaptec maxCache™ and LSI MegaRAID CacheCade™ are supported.

NEW!

Software RAID with Hardware RAID Functionality
The integrated software RAID in Open-E DSS V6 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, 5 and 6 - with support for Hot Plug or Hot Spare.

Compatibility and easy Installation
Open-E DSS V6 recognizes most industry-standard hardware and automatically installs drivers (*****) for SAS and RAID controllers, FC-HBAs, and Ethernet cards. Additionally, Open-E DSS V6 is a complete operating system that easily installs on any server. Users have said that Open-E DSS V6 is one of the easiest to install software storage solutions on the market.

Optimized OS Performance
Independent tests have shown that Open-E DSS V6 offers one of the highest data throughput and performance levels of any product on the market. This makes Open-E DSS V6 especially suitable for network environments with many clients or for storage applications requiring high data throughput and I/O such as server virtualization, video editing and streaming, IPTV and others.

Secure Updates
To optimize the software update process, the system retains copies of one or more previous software versions. In the unlikely event of an update failure the storage system can be easily rolled back to the former version.

Designed for Integration into Heterogeneous Networks
Integration of Open-E DSS V6 into heterogeneous network environments takes no more than a few minutes. Built-in-, Active Directory Services integration, NIS and External or Internal LDAP support allows for easy implementation with existing IT infrastructures. Additionally, Open-E DSS V6 includes support for heterogeneous protocols such as SMB/CIFS, HTTPS, NFS, AppleTalk, FTP, FTPS, and FTP over SSH, allowing data to be easily shared among different platforms.

***** For supported hardware, please visit
www.open-e.com/service-and-support/product-compatibility