open-e

Open-E Data Storage Software

OPEN-E DSS v.7

Open-E DSS V7 is a Linux-based data storage software ensuring Business Continuity, High Availability and centralized storage management. This unified file and block-level operating system provides support for multiple infrastructures such as 1GbE, 10GbE, 40GbE, FC, Infiniband, and offers NAS, iSCSI and Fibre Channel (both target and initiator) functionality in a single application. It is one of the most stable and secure solutions on the market, helping both SMBs and SMEs to implement high performing, yet cost-effective and robust data storage solutions.

Open-E DSS V7 contains the following high-end features, ideal for demanding virtualized environments, High Availability storage clusters, network environments with many clients, CCTV, backup and more:
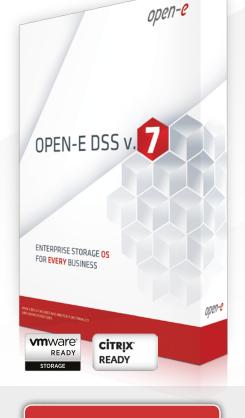
> Active-Active NFS and iSCSI Failover
> Active-Passive NFS and iSCSI Failover
> Storage Virtualization
> Continuous data protection

> Volume replication
> Multiple scheduled snapshots
> Hyper-V cluster support
> VMware Ready and Citrix Ready

DOWNLOAD 60-DAY TRIAL

Open-E DSS V7 **Benefits**

> **Reliable and award-winning storage application** containing powerful storage features for an affordable price

> **Excellent compatibility with industry standards:** recognizes most industry standard hardware and automatically installs drivers for RAID controllers, FC-HBAs or Ethernet cards

> **Easy to deploy and manage** thanks to an intuitive, web-based interface

> **The most stable** developed using agile methodologies with continuous integration updates and extensive QA testing

> **Excellent technical support:** 1 year Basic Support for free

> **Optimized performance** with high data throughput and I/O

> **Scale-out architecture** allowing users to expand capacity online, without disruption and compromising performance

> **Field-proven reliability** with over 27,000 installations in 100+ countries

Active-Passive NFS and iSCSI Failover

The Active-Passive Failover provides fault tolerance via synchronous Volume Replication for NFS shares and iSCSI volumes. It uses a setup with two nodes in an active-passive configuration. Once configured, all data written to the primary server is mirrored to the secondary server. In case the primary server fails, the software automatically switches all operations to the secondary server. Also, NFS and iSCSI locks are reassigned to the secondary server after the primary one fails.

Active-Active NFS and iSCSI Failover

With the Active-Active NFS and iSCSI Failover Feature Pack for Open-E DSS V7 you can double the performance of your storage system, increase sequential read and write performance by 100% and shorten switching time almost twice, compared to Active-Passive. Reason is the way load balancing in an active-active cluster works, utilizing the maximum of all storage resources. With no Single Point of Failure the read, write and replication traffic can be balanced on both nodes. If one node fails, the other one takes over automatically and all application services continue to run without interruption.

Open-E DSS V7 Certified Servers

Open-E partners continuously certify storage servers and hardware in our laboratories. Systems that have been certified with Open-E DSS V7 are suitable for all storage applications and since they have different recommendations, they perform even better in specific setups. For example, systems certified for high availability clusters are suitable for a variety of storage applications and additionally provide exceptional performance as part of a failover cluster. For a list of all certified servers, go to http://www.open-e.com/products/data-storage-software-v7/certified-servers/

To support Open-E DSS V7 users even further, many Open-E Partners have an Open-E Certified engineer on board, who can help with configuration, deployment and maintenance.

Open-E DSS V7 specifications

Specifications	Description
Version	Open-E DSS V7
Base OS	Linux
File system	XFS and block device
Architecture	64-bit
Hardware recommendations	4 CPU cores, 8GB RAM, H/W RAID adapter
Administration	Unlimited number of users, groups, NICs or HDDs English, German and Japanese language Tuning Tools for advanced administrators Remote Access Console Automated update and rollback to previous OS version Task and Schedule Manager Command Line Interface (CLI) and WebGUI Save and restore settings Connection status and session management
Network management	DHCP Client Teaming / Bonding (including Adapter Fault Tolerance) Proxy Settings Jumbo Frames Static Routing Manager
Storage management	VMware Virtual NIC and Para-Virtual SCSI to run as VSA Software and Hardware iSCSI Initiator Software RAID 0, 1, 5, 6 Fibre Channel HBA support (initiator and target mode) Multiple snapshots (multiple active snapshots - one LV at a time) Logical Volumes and Groups Online Logical Volume Expansion Online RAID Capacity Expansion Support for Automatic Session Reassignment (ASR) for FC and iSCSI protocols
Storage management/replications	Synchronous Volume Replication over LAN Asynchronous Data (file) Replication over LAN and WAN Dynamically managed re-sync bandwidth of Volume Replication
Monitoring	Hardware monitoring S.M.A.R.T - monitoring system for hard disc drive failures SnMP v2, v3
Hardware support	Support and tuning tools for Mellanox 40Gbps Infiniband cards Support for Intel® 40GbE cards Adaptec Series 8 (maxCache Plus caching technology) IP over Infiniband (IPoIB) SSD-cached RAID (LSI CacheCade, LSI Nytro Cache) Multiple CPU (up to 128) Multiple Network Interface Card UPS and Network UPS Hardware RAID controller
Specific NAS functionality	Active-Active NFS Failover (separate Feature Pack) Windows Active Directory / Primary Domain Controller Support for Network Information Service (NIS) Internal and external LDAP User and Group Quota Control Antivirus
Supported network clients	Microsoft Windows, Linux, UNIX, Mac OS 8.0-10.5.8, X
Supported network file protocols	SMB/CIFS, FTP, Secure FTP, HTTP, Apple Talk, NFS v3
Specific iSCSI functionality	Active-Active iSCSI Failover (separate Feature Pack) Built-in Active-Passive Failover configuration (cluster functionality) Multiple LUNs per iSCSI Target CHAP/ Mutual CHAP User Management SCSI-3 Persistent Reservation support with sync between two cluster nodes
Backup utility	WORM (Write Once Read Many) NDMP v3.0 (Network Data Management Protocol) Backup Agents (Backup Exec, Retrospect, BrightStor)
Licensing and feature packs	Initially supported storage capacity 4 / 8 / 16* / unlimited (TB) iSCSI (SAN) Active-Active Failover Feature Pack NFS (NAS) Active-Active Failover Feature Pack Avago Syncro Solution Feature Pack

* Storage capacity can be extended by additional licenses.

About Open-E

Open-E is a well-established developer of IP-based storage management software. Open-E JovianDSS and Open-E DSS V7 are robust, award-d-winning enterprise storage applications which offer excellent compatibility with industry standards, and are the easiest to use and manage. Additionally, they are some of the most stable solutions on the market and undisputed price performance leaders. Open-E accounts for over 27,000 installations worldwide and has received numerous industry awards and recognition.Thanks to its reputation, experience and business reliability, Open-E has become the technology partner of choice for industry-leading IT companies.