

Pro Storage



Pro Storage Features

Unlimited number of users

Whether you have 5, 500, 15,000 or more, you only pay one price for a single Data Storage Software License.

Web-based Graphical User Interface

The powerful and convenient Web-based GUI (Graphical User Interface) of the Pro Storage software makes remote management of the server a simple task. By using a web-browser, the server can be easily managed from anywhere in the network.

Multiple Management Levels

The Pro Storage supports three levels of administrative rights: Full Access, Maintenance and Administration.

Automated Update of OS

Update downtime is reduced with the new Update System feature making it possible to reboot from the old system.

Rollback to Previous OS

After each update copy of previously used system is kept (including configuration), so in case of any problems with new version only reboot is required minimizing the system downtime

Task Manager

Management of all the tasks is much easier and convenient using the unified task mechanism with scheduling for data and volume replication, backup and snapshot. Tasks are scheduled as to when to activate and may have many schedules.

Pro Storage

CLI/API

You can maintain the server without using the web browser! All operations are performed by API using a secure (SSH) connection. The API includes functionalities like:

- users and shares handling
- iSCSI targets operations
- hardware status
- software update
- machine reboot and shutdown

DHCP Client

Assigning IP addresses in a network can be centrally managed and automated through using Dynamic Host Configuration Protocol (DHCP).

Multiple Network Interface Card Support

The Pro Storage supports usage of two or more network cards to access separate sub-networks or to increase the bandwidth and allows administrators to select services to be enabled on a specified NIC.

Teaming/Bonding (including Adapter Fault Tolerance)

Pro Storage supports network adapter teaming/bonding increasing the hardware performance and reliability. One of the supported modes is AFT (Adapter Fault Tolerance), which assures greater reliability by providing a secondary network adapter, which automatically takes over if the primary network adapter fails.

Software and hardware iSCSI Initiator

Pro Storage supports hardware iSCSI Initiators and has a software iSCSI Initiator for easily expanding the storage capacity of the NAS system. New units and logical volumes can be added by connecting an iSCSI storage system to the NAS.

Software RAID 0, 1, 5, 6 with E-Mail Notification

The integrated software RAID 0, 1, 5 provides more flexibility and cost savings while The Pro Storage offers highest flexibility in redundancy, performance, costs and storage volume.

Support for Logical Volumes over 16 TB

Pro Storage supports volumes with capacity greater than 16TB.

Pro Storage

Multiple Snapshot (multiple active snapshots per one LV at a time)

Pro Storage supports multiple snapshots per logical volumes. Snapshot is an immediate point-in-time image of the logical volume. The snapshot images can be used for both consistent and temporary backup, while users still have uninterrupted and complete access to the LV. Files can be recovered from previous snapshots should a file be accidentally deleted or modified.

Virtual Environment

Pro Storage works well with all popular virtualization platforms offered by the most popular vendors like VMware, Citrix and Microsoft. Secondly, our software provides NAS and SAN including support for SMB/CIFS, NFS, iSCSI and Fiber Channel

Synchronous Volume Replication over LAN

Synchronous replication guarantees zero data loss. Write is not considered complete until acknowledgement by both local and remote storage

Synchronous Volume Replication over LAN with NAS (NFS) Failover

Pro Storage provides fault tolerance via synchronous NAS Volume Replication for NFS shares. Once configured, all data written to the primary server is mirrored to a secondary server. In the event the primary server fails, Pro Storage automatically switches operation to the secondary server. NFS locks are also reassigned on the secondary server after primary server fails. This functionality requires the purchase of a feature pack.

Data (file) Replication over LAN/WAN

With Pro Storage you are able to keep your data synchronized between servers on the LAN/WAN.

NFS failover (available as feature pack)

Pro Storage provides fault tolerance via synchronous NAS Volume Replication for NFS shares. Once configured, all data written to the primary server is mirrored to a secondary server. In the event the primary server fails, Pro Storage automatically switches operation to the secondary server. NFS locks are also reassigned on the secondary server after primary server fails. This functionality requires the purchase of a feature pack.

Pro Storage

Windows Active Directory / Primary Domain Controller

Pro Storage supports ADS (Windows Active Directory), PDC (Primary Domain Controller), LDAP (Lightweight Directory Access Protocol) and ADS & NIS (Network Information Service) User-/Group ID

Synchronization to leverage information about users, groups, systems and other resources stored in the Active Directory. The support of Access Control List (ACL) ensures that access rights of users are automatically taken over from the Domain..

SUPPORTED NETWORK CLIENTS

Microsoft Windows, Linux, Unix, Mac OS 8.0 - 10.5.8, X

Pro Storage supports the file based protocols CIFS (Common Internet File System)/SMB (Server Message Block), NFS (Network File System), FTP (File Transfer Protocol), FTPS and Apple Talk enabling Windows, Linux, Unix and MacIntosh clients to share data on the same NAS server.

SUPPORTED NETWORK FILE PROTOCOLS

SMB/CIFS, FTP, Secure FTP, HTTP, Apple Talk, NFS v2, v3

Pro Storage supports the file based protocols CIFS (Common Internet File System)/SMB, NFS (Network File System), FTP (File Transfer Protocol), FTPS, SFTP and Apple Talk enabling Windows, Linux, Unix and Macintosh clients to share data on the same server.

SPECIFIC iSCSI FUNCTIONALITY

iSCSI Failover **

Pro Storage provides fault tolerance via iSCSI Volume Replication. Data is copied in real time to the primary server and every change is immediately mirrored to a secondary server and in the event of a failure (e.g. I/O errors) of the primary server Pro Storage automatically switches operations to the secondary server.

Local Backup

Through Pro Storage, a local HDD or a USB drive can be defined as a Dynamic Unit and acts like a normal tape drive which can backup the NAS server and be removed without shutting down the server.

Virtual Tapes

Configure tape drive emulation on share or Dynamic Volume (e.g. dynamically attached hard drive) backup for tape drives is the same as backup on virtual tapes.

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Support for Tape Libraries, Autoloaders, Retention Time

Automate backups with use of tape drive libraries. Set schedule for tapes to be rewritten for new backup.

WORM Support (Write Once Read Many)

Pro Storage WORM technology enables data to be permanently written to disk in read only format ensuring that data can be read any number of times but cannot be erased or modified.

NDMP v3.0 Support (Network Data Management Protocol)

Pro Storage implementation of the NDMP open standard protocol is used to control backup and recovery data streams between primary storage (data server) and secondary storage (tape server) in heterogeneous network environments. Support for NDMP includes reading data from disk and producing an NDMP data stream (backup) and reading of an NDMP data stream and writing it to disk (restore).

Backup-Agents (Backup Exec®, Retrospect®, BrightStor®)

Pro Storage backup agents help administrators to back up NAS servers with backup software from Veritas, Dantz, CA BrightStorARCserve. Using the backup agents, you can administer complete data protection for all data stored on the server. This improves data transfer and provides network security, task monitoring, real-time directory browsing, and cross-platform backup support. Other backup software can do the backup and restore over supported file protocols.

Antivirus

Pro Storage has an integrated Antivirus software tool for scanning shares on viruses at predefined points in time. The Virus Definition Database can be updated and is stored on the NAS device.

MONITORING

Hardware Monitoring

Pro Storage monitors hardware status such as temperature, voltage and fan speed provided by the motherboard's sensors.

SNMP v2, v3

SNMP is a shortcut of Simple Network Management Protocol. Protocol allowing you to observe Servers performance remotely using encrypted transmission (v3) or non-encrypted one (v2).

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E-mail Notification

Pro Storage can be configured to send email alerts to the system administrator in case of problems with the server.

UPS and Network UPS Support

A UPS eliminates the effects of a temporary power outage and provides a safe shutdown, without loss of data, in case of power failure. The UPS device can be connected by Communications Port (COM-port) or Universal Serial Bus (USB) to the server

ProStorage Highlights

- **NFS/CIFS/RSYNC/FTP/ISCSI**
- **Unlimited Users**
- **Multiple Snapshots**
- **Asynchronous / Synchronous Volume Replication**
- **Support for Virtual Environment**
- **Compression**
- **Thin provisioning.**
- **Backup**
- **WORM**
- **NDMP**
- **Active Directory and LDAP support**
- **Clustering Support**
- **Antivirus**
- **Web GUI / CLI**
- **LAN Teaming / Bonding**
- **Remote Hardware Monitoring**