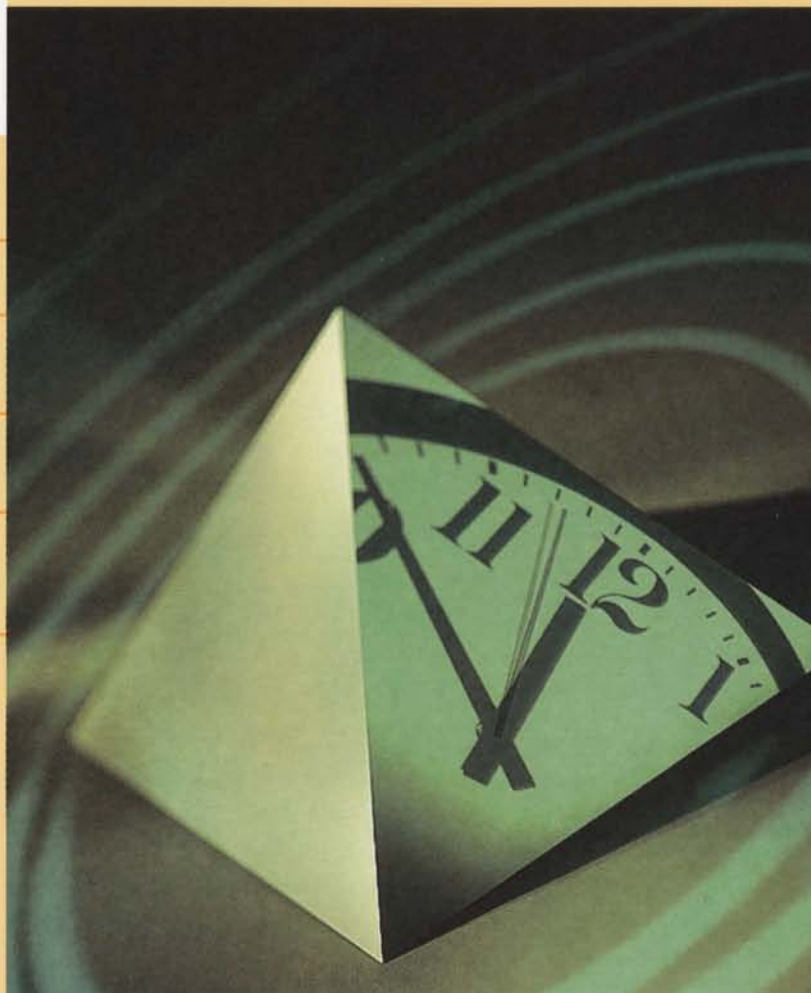


EMC Epoch Enterprise Backup for Novell NetWare

The industry's first enterprise-wide client/server backup solution for NetWare.

Delivering consistent, reliable, and flexible SMS-compliant backup and recovery for your client/server enterprise.

- 1 Fully compliant with Novell's Storage Management Services (SMS) architecture
- 2 Integrates backups efficiently into one centrally managed operation
- 3 Backup and recovery for DOS and OS/2 PCs attached to NetWare file servers
- 4 High system availability through concurrent backup during normal business operations
- 5 Intelligent scheduling and automatic volume and robotic library management, monitoring, and reporting



EMC's Epoch™ Enterprise Backup™ for Novell® NetWare® provides a single, scalable, enterprise-wide client/server backup solution that simultaneously supports PC platforms, and UNIX file systems from one centrally managed location.

Unattended, automatic backup of NetWare file servers for the Novell environment.

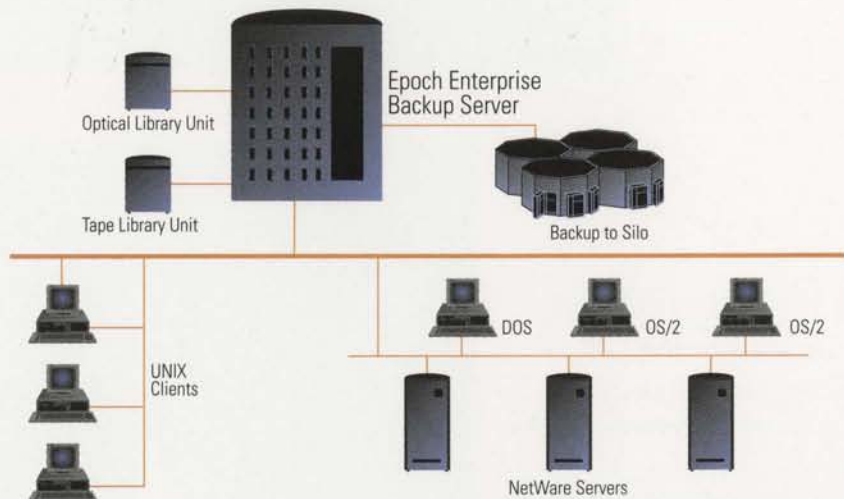
Fail-safe integration and backup/restore capabilities for expanding networks.

EMC's Epoch Enterprise Backup for Novell NetWare systems lets you easily backup and manage data on your Novell network. It integrates PCs and UNIX® file systems under a single management view. All management functions are handled efficiently from one control site. Epoch Enterprise Backup for NetWare is designed to help you cost-effectively manage and protect your most vital enterprise asset – your business data.

SMS compliance insures easy integration and ease of use.

SMS compliance gives network administrators a fail-safe way to integrate and automate backup and restore operations for expanding Novell networks. SMS support allows Epoch Enterprise Backup to access client data via the NetWare file server. In this environment, the NetWare file server acts as the Epoch Enterprise Backup client.

SMS compatibility enhances enterprise-wide backup operations with capabilities for multiple name space support, bindery-safe backup, and NetWare version independence.



Epoch Enterprise Backup for Novell NetWare employs a two-tiered architecture for enterprise-wide backup and recovery. The NetWare file server acts as the client to the Epoch Enterprise Backup server. The Enterprise Backup server performs multiple, simultaneous NetWare file server, DOS, and OS/2® client backups.

Multiple name space support

The NetWare file server, which recognizes a variety of native formats, stores files for MAC, UNIX, DOS, and OS/2. The entire native environment is preserved, including the context in which data is accessed.

Bindery-safe backups

User account information resides in the NetWare bindery. Epoch Enterprise Backup

SMS compliance ensures reliable backup of NetWare binderies as well as the retention of accurate account data.

NetWare version independence

Ongoing compatibility with future OS versions of Novell NetWare is guaranteed, safeguarding investments and supporting continued growth.

Highlights

- **Fully SMS compatible.**
Insures safe backups; provides multiple name space support; guarantees NetWare version independence.
- **Centrally managed.**
Consistent management and protection of all NetWare-accessible data from one central location.

High system availability increases productivity.

Epoch Enterprise Backup's high system availability is maintained with support for NetWare. Not only does the NetWare server stay up and running during backup, the NetWare Loadable Module (NLM) is efficiently designed as a single, multi-tasking module that does not stress system operations. As remote systems send requests for processing, the NLM creates a process thread and hands the request to the thread for processing. This implementation allows the client NLM to handle more than one request at a time.

Epoch Enterprise Backup - backup that won't let you down.

As an Epoch Enterprise Backup product, Epoch Enterprise Backup for Novell NetWare is a scalable, full-featured system consisting of UNIX server and Novell client software. It is easy to use and simplifies installation, configuration and maintenance with a graphical user interface. Epoch Enterprise Backup for Novell NetWare is one strategic component of the Epoch family of integrated client/server storage management products for backup and recovery, file migration, volume and robotic library management, and disaster recovery.

Flexible backup options

Epoch Enterprise Backup supports a variety of backup operations, including the traditional UNIX full and incremental backups

and a true incremental backup. To achieve a true incremental capability, a level 9 incremental backup saves only those files that have changed since the previous backup, regardless of the level. Successive level 9 backups tend not to increase in size. Therefore, backups use less media, are completed quickly, and backup frequency is not limited.

Advanced catalog management

Using sophisticated catalog management techniques, the catalog's structure requires only a small amount of magnetic disk space for catalog storage while enabling rapid recovery through online catalog selections.

Intelligent schedule management, monitoring, and reporting

An intelligent schedule manager automatically handles all scheduling within Epoch Enterprise Backup for Novell NetWare. Unique macro-scheduling lets administrators specify basic information about the network's environment. Epoch Enterprise Backup then designs the backup schedule for all clients in the network.

To further ensure backup reliability, a coverage monitor continually watches for changes in the network's configuration. The coverage monitor reports new file systems that have been added to client systems which are not getting backed up. Reports also document media usage and history, how much space remains on backup volumes, how many new volumes are avail-

able, where volumes are located, and how many volumes are needed for backups.

Multiplexing to tape drives and simultaneous backup

Multiplexing to tape drives means that multiple client machines can be backed up simultaneously, ensuring that a steady stream of files is supplied to the tape drive so that it can operate at its highest speed. Multiplexing maximizes system throughput.

Resilience to client and network errors

Epoch Enterprise Backup is resilient to individual system, network, and device failures. When Epoch Enterprise Backup detects an error with one system, it continues to service other systems. This means that an individual or network failure will not affect the backup of other systems. Epoch Enterprise Backup automatically reschedules failed clients and re-load balances the entire schedule. A report immediately notifies administrators when a problem has occurred.

For more information.

For more information on EMC's Epoch Enterprise Backup for Novell NetWare, call your local authorized distributor or call EMC directly at 1-800-424-EMC2.

- **Broad range platform support.**

Simultaneously supports DOS and OS/2 PCs attached to NetWare file servers.

- **High system availability.**

Concurrent backups leave normal business operations unaffected and insure data reliability.

- **Intelligent scheduling management.**

Dynamically load balances entire backup schedule for all clients.

Technical Specifications

Backup Media Supported

EMC Epoch Enterprise Backup for Novell NetWare supports the following backup media.

Optical Library Units

Hewlett Packard® 20T, 40T, 120T, 200T

Sony® WDA-E330, WDA-E930

DISC® 626GB, 1.2TB

Tape Library Units

Exabyte™ 10e, 60, 120, and 210 tape robots (for 8mm media), 440, and 480

StorageTek® 4400 and Wolf libraries

DLT 2000, 2700, ATL 2640

NetWare Support

Versions 3.11, 3.12, 4.01, and 4.1

Heterogeneous Client Support

EMC Epoch Enterprise Backup for Novell NetWare supports the following client platforms.

Apollo®

Auspex®

Data General®

DEC® ULTRIX®

Hewlett Packard HP-UX®

IBM® AIX®,

Intergraph®

MIPS®

Motorola® 88K-based machines

NCR®

Novell NetWare

SCO/UNIX

Sequent®

Silicon Graphics®

Solbourne®

SunOS™

Solaris®.

Contact EMC Corporation for the most current listing of supported platforms.

EMC Corporation
Hopkinton
Massachusetts
01748-9103

1-800-424-EMC2

The materials presented here are summary in nature, subject to change, and intended for general information only. Additional details and specifications concerning the operation and use of EMC equipment and software are available in the applicable technical literature.

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