NEO® Agility™ LTFS Archive Appliance

Workflow-optimized data protection

Businesses in today's data-intensive world are faced with increasing data storage requirements and associated challenges for effectively managing that data. Most companies recognize the importance of backing up frequently used data onto disk or the Cloud, and storing less frequently used data on tape for archive and disaster recovery applications. However, for some users, the process of creating, storing, retrieving and sharing large data sets can be costly and cumbersome and those users need help bridging that gap.

With the new NEO® Agility™, users can effortlessly manage, share and protect valuable data files utilizing Linear Tape File Storage (LTFS) technology. Providing advanced archiving capability, and serving as a compliment to NEO series tape libraries, NEO Agility allows users to capitalize on the reliability, portability and affordability of tape-based storage while benefiting from the ease of data access associated with disk-based storage.

Network

Key features
Lowers cost of storage and increases efficiency by freeing up primary storage space
Delivers effortless drag and drop of files from tape, just as if they were located on a standard disk volume
Delivers up to 15PB of near-line capacity & unlimited offline capacity
Provides up to 8TB of disk cache for increased performance
Enables easy sharing of data with other users on the network
Utilizes CIFS/SMB and FTP file transfer network protocols
Provides interoperability in Windows, Linux and MAC environments
Writes to LTO cartridges in LTFS or TAR formats
Compatible with LTO WORM cartridges required for regulatory compliance

Provides easy access to files

Even though archived files may be physically located on tape, users have convenient access to the data. Files appear in the OS directory tree structure just as if they were located on the primary storage. Because LTO cartridges contained in the NEO Agility solution are self-describing, they contain all the file system information needed to recover data and can be easily transferred between archive systems.

Familiar file system user interface

NEO Agility presents a familiar Windows File structure user interface allowing files to be easily moved to and from the client computer and NEO tape library with simple "drag and drop" actions across the network. Because files are written to and retrieved from the archive as if through a standard disk-based volume or network share, NEO Agility is easily used with most applications.

Provides cost-effective NAS storage

Accessing your NEO series tape library as a NAS share allows easy exchange of data between primary and archive storage. Because NEO Agility allows you to easily archive data off to tape, even though it appears as if the archive is on disk, the content needing to be stored is minimized, providing the IT administrator with the bandwidth to focus on other activities.

Superior compatibility

Files stored on NEO Agility are immediately available to your file system and other applications. NEO Agility accepts all file types and presents in a Windows file/folder structure. Files are transferred to/from the archive locally or using either the standard Windows network protocol (CIFS/SMB) or FTP file transfers. NEO Agility can also be connected with a SAN via fibre channel. In addition, NEO Agility provides an object storage interface using an XML API. These interface options mean that NEO Agility effortlessly works with a variety of applications natively and can provide third-party applications with the ability to control and monitor the archive system, Windows, MAC and Linux.

Replication of data

NEO Agility software can automatically replicate LTO cartridges that may have been exported from the NEO series library for off-site retention, providing strong data protection and disaster recovery.

Frees up expensive primary storage

With NEO Agility, there's no need to clutter up expensive primary storage space with files you may not need frequently or instantaneously. The ease of use of NEO Agility means you can effortlessly move data to tape while still having rapid and reliable access to that data as needed. By providing support for LTFS and TAR formats, NEO Agility also avoids costly vendor lock-in and proprietary formats.

Simplified installation and use

Setting up a NEO Agility appliance is as simple as plugging it in and connecting it to your host and your NEO tape library. Minimizing the use of IT resources to setup and manage the NEO Agility solution means cost of ownership is reduced and users can quickly begin sharing and archiving important data.

Alert modules contained within NEO Agility provide email and on-screen alerts which can be tailored to specific IT personnel requirements. Additionally, reporting can be configured to provide information on files contained on any cartridge, improving usability and reducing the load on busy IT personnel.

Flexible storage capacities

Grow into, not out of, your storage. Both NEO Agility and its compatible NEO series tape libraries scale to meet your particular data storage needs. And because you can utilize your NEO series library for both NEO Agility archive and traditional backup activities, the flexibility and efficiency of your NEO solution provides the ultimate in investment protection. Unlike other more basic LTFS solutions, NEO Agility supports LTO cartridge spanning, preventing archive operations from being limited by the capacity of the LTO cartridges. And with NEO Agility's ability to manage an unlimited number of offline cartridges, the capacity of the NEO Agility archive becomes infinite.

Compatibility with NEO libraries

NEO Agility is optimized for, and compatible with, NEOs T48, NEOxl 80 and NEO 8000e tape libraries. With storage capacities ranging from 72TB to 15PB, NEO series solutions provide the backup and archive solution tailored to fit your particular data storage needs.

NEO Agility is also compatible with tape libraries manufactured by other vendors; providing the NEO Agility archiving advantages in environments that don't currently benefit from the use of an Overland Storage tape library.

Key features

Supported tape libraries: NEOs T48, NEOxl 80, NEO 8000e.** Supported on LTO-5, LTO-6 or LTO-7 configurations

NAS support: presents CIFS (Windows and MAC OS)

High-availability features include mirrored disk and redundant power supplies

NEO Agility Server	NEO Agility 48	NEO Agility 80	NEO Agility 160
Software	NEO Agility Server Software		
Operating system	Microsoft Windows Server 2012 R2 Standard Edition		
Processor	Intel Xeon 6-Core Processor; 1.6Ghz	Intel Xeon 6-Core Processor; 2.4Ghz	Intel Xeon 6-Core Processor; 2.4Ghz
RAM	32GB	64 GB	64 GB
RAID	1	5	5
System disk	2xSATA	8xSAS	8xSAS
Disk cache	6TB	8.4TB	8.4TB
Network interface	1Gb Ethernet	10Gb Ethernet	10Gb Ethernet
Library interface	6Gb SAS	6Gb SAS/8Gb FC	8Gb FC
Form factor	1u		
Max. std. on-line capacity*	720 TB	1.2 PB	2.4 PB
Max. total on-line capacity*	720 TB	8.4 PB	15 PB
Off-line capacity	unlimited		
Power (with redundancy)	700 watts		
Temperature	0°C to 40°C		
Humidity	20 to 80%		
Dimensions	17.2"w x 1.7"h x 25.6"d	17.2"w x 1.7"h x 23.5"d	17.2"w x 1.7"h x 23.5"d
Weight	46 lbs.		
Rack rails	included		
Std. warranty	1 year telephone support (software)		

NEO Series Tape Libraries	NEOs T48	NEOxl 80	NEO 8000e
# tape cartridges (per module)	48	80	100-500
# tape drives (per module)	1-4	1-6	1-12
Max. storage capacity* (base module)	720 TB	1.2 PB	7.5 PB
Max. data transfer* (per module)	10.8 TB/hr.	16.2 TB/hr.	32.4 TB/hr.
Max. # tape cartridges	48	560	1000
Max. # of tape drives	4	42	24
Max. storage capacity*	720 TB	8.4PB	15 PB
Max. data transfer*	10.8 TB/hr.	113.4 TB/hr.	64.8 TB/hr.
Supported tape drive technologies:	LTO7, LTO6, LTO5		
Reliability	>4,000,000 MCBF		
Interface	6Gb SAS, 8Gb FC	6Gb SAS, 8Gb FC	8Gb FC
Std. # power supplies	1	2	2
Power	312 watts	350 watts	484 watts
Temperature	10°C to 45°C	5°C to 40°C	0°C to 50°C
Humidity	10-80%	10-80%	15-85%
Dimensions	6.9"h x 17.6"w x 29.13"d	10.6"h x 18.7"w x 35.1"d	76"h x 24"w x 41.5"d
Weight	47 lbs.	121 lbs.	705 lbs.
Rack rails	included		
Std. warranty	1 year OverlandCare Bronze (advanced replacement)	1 year OverlandCare Silver (NBD on site)	1 year OverlandCare Silver (NBD on site)

*   assumes 2.5:1 compression
** Contact your Overland Storage sales representative to discuss support for non-Overland tape libraries.

Sales Offices

Sales and support for Sphere 3D products and solutions are available in over 90 countries. Contact us today at sales@sphere3d.com.

For a full list of Sphere 3D addresses and phone numbers, please see our website at: http://sphere3d.com/contact-us/.

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