



E-Series

Object Storage Archive Appliance 280 TB to 1.12 PB

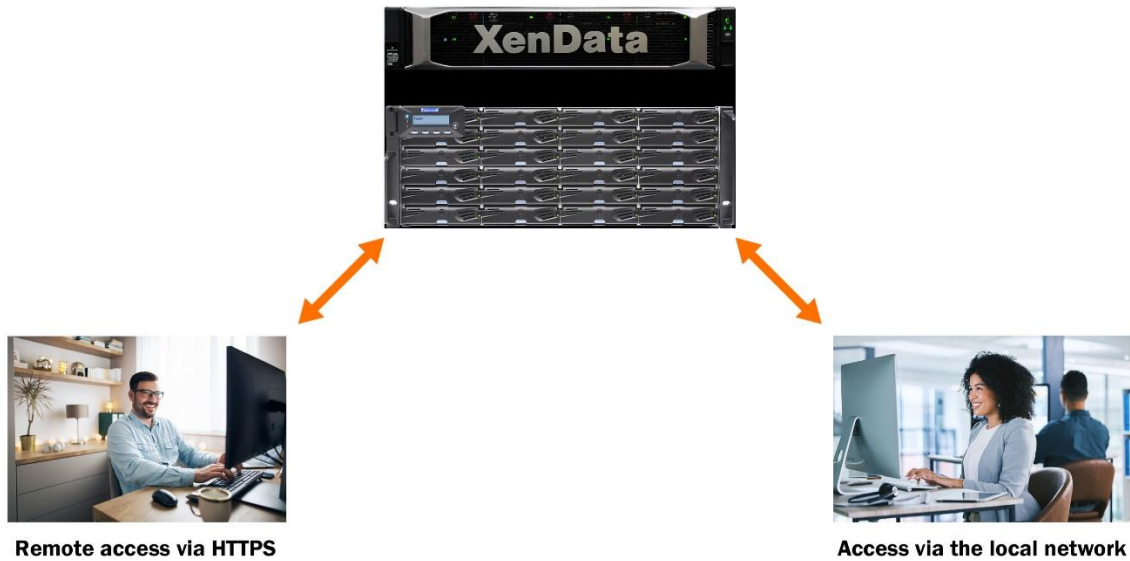
Key Functionality

- ✓ Access object storage using an S3 interface and create your own private cloud, accessible from anywhere via secure HTTPS.
- ✓ Simultaneously access as on-premises Network Attached Storage via SMB, NFS or as local storage.
- ✓ Easily expandable - start with one 280 TB node and scale to 1.12 PB by adding up to three additional 280 TB nodes.
- ✓ High performance archive and restore. Uses dual 12 core processors and has 10/25 GbE network option.
- ✓ Media-focused object storage. Supports Partial File Restore and streaming to media players.
- ✓ Compatible with many industry-leading asset management applications using XenData APIs for tight integration.
- ✓ Three data protection options: mirroring content to LTO data tape, copy to public cloud or another E-Series Appliance.
- ✓ Deep archive option moves files to LTO tape or cloud. Supported cloud storage tiers include AWS Glacier and Azure Archive Tier.



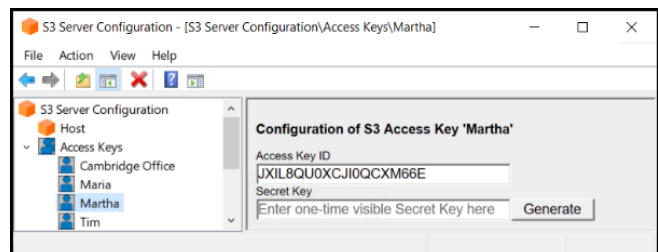
Simultaneous Object and File Access

The XenData E-Series Archive Appliance may be accessed as object storage via HTTP or HTTPS or as Network Attached Storage (NAS) over the local network via SMB, NFS or FTP.



All content stored on the appliance can be accessed as a one or more file shares. In this case, the appliance uses standard Microsoft security based on Active Directory, making it easy to add to an existing domain or workgroup.

When the content is accessed as object storage, either HTTP or HTTPS is used and one or more folders in the file system are designated as S3 buckets. Access to these is controlled via keys generated by a system administrator.



Start with 280 TB and Grow

The base system has one 280 TB storage node which is connected to the appliance via two redundant fibre channel (FC) connections. Up to three additional nodes can be connected via FC and each adds a further 280 TB of usable capacity. The maximum usable capacity is 1.12 PB, with a total of four nodes connected.

This allows you to increase the capacity of the appliance capacity as your storage requirements grow.

High-Performance Archiving

The appliance has two 12-core Xeon processors and 128 GB of RAM. Each node has 24 enterprise-class 14 TB SAS disks managed by a controller with a 64 GB cache. The configuration delivers a high-performance active archive.

In addition to four 1 GbE ports, the appliance has multiple network connectivity options:

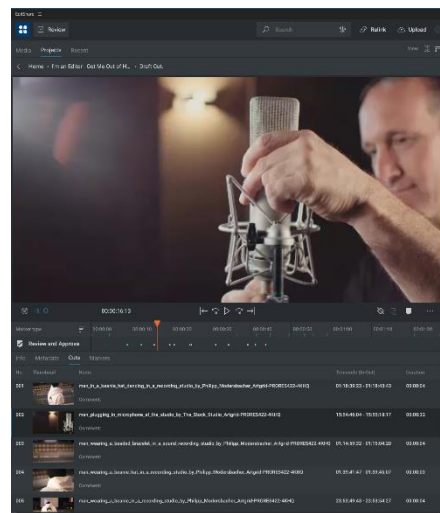
- ❖ Dual 10/25 GbE SFP ports
- ❖ Dual 10 GbE SFP+ ports
- ❖ Dual 10 GbE Cat6 type ports

Optimized for Media

Both the file system and object storage access are optimized for media files. The system supports partial file restore which means you can restore portions of large files to create video clips and video content can be played directly from the appliance without having to restore the complete file.

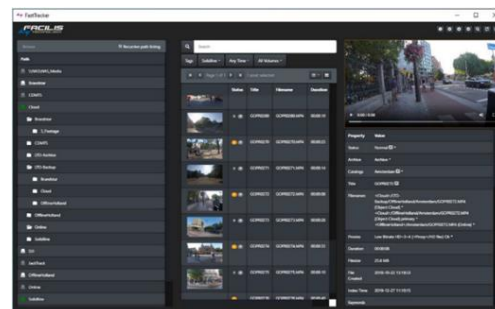
The E-Series appliance is supported by many popular media applications including Media Asset Management (MAM) applications, some of which are tightly integrated via API. Proven compatible applications include:

- ❖ Aveco MAM
- ❖ Avid Interplay
- ❖ CatDV
- ❖ Cinegy
- ❖ Dalet Flex
- ❖ Dalet Galaxy
- ❖ EditShare FLOW
- ❖ eMAM
- ❖ Facilis FastTracker
- ❖ IPV Curator
- ❖ Marquis Project Parking
- ❖ Metus MAM
- ❖ NL Technology Nearchive.
- ❖ Videomenthe Eolementhe
- ❖ VSN MAM



MAM software, either running on the E-Series Appliance or on another machine, adds the ability to create metadata, to search for content based on the metadata and to automatically create previews and proxies.

An E-Series Appliance, coupled with a MAM, can create a centralized media storage system that fosters easy collaboration among teams and provides greatly increased productivity throughout the organization.



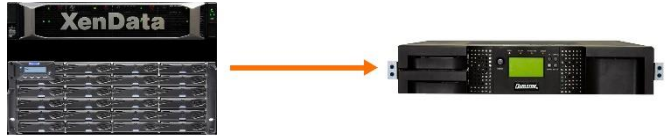
Data Protection Options

The E-Series has three options to protect your valuable content: mirror to LTO data tape, mirror to the cloud and mirror to another E-series appliance in a different location.

Mirror to LTO

Attach a robotic LTO library to the appliance and write another instance of all files/objects to LTO data tape. The base E-Series system includes a software license to manage an LTO library with up to 24 slots and two LTO drives.

The intrinsic sequential recording of tape means that all versions of files/objects will be recorded to tape, allowing accidentally deleted or overwritten content to be restored.



Mirror to Public Cloud

Configure the appliance to write another instance of all files to cloud object storage for data protection. Compatible cloud storage includes AWS, Azure, Seagate Lyve and Wasabi. AWS Glacier tiers and the Azure Archive Tier are supported.



Mirror to another E-Series Appliance

Configure the appliance to write another instance of all files to a second E-Series Appliance in another location. The two appliances can be configured to replicate in both directions.



Deep Archive Option

With one of the above data protection options enabled, the appliance can be configured with storage retention policies to convert files/objects to stubs. The stub takes minimal space on the appliance disk storage.

The ability to configure the appliance for deep archive allows you move content off the E-Series nodes to LTO or cloud storage to free up space.

For example, if the E-Series appliance is configured with an LTO library, files/objects stored in specific folders or buckets may be converted to stubs after a specified retention period, say 6 months after written or last read. The content is still available from LTO tape but not immediately available from the 280 TB disk nodes. If the LTO cartridges that contain the required content are not in the attached LTO library, the system will issue an email alert and/or on-screen message identifying the barcode of the required cartridge or cartridges.

Specification



Base System with 1 x 280 TB Node

XenData Part Number 305001

ARCHIVE APPLIANCE	
Management software:	XenData Archive Series S3 Server interface XenData Cloud File Gateway Extension XenData Alert Module
Operating System:	Windows Server 2022
Processors	2 x Xeon 12 core
RAM:	128 GB
System disks:	Dual redundant 480 TB SSDs
Interface to 280 TB Node:	2 x 16 Gb/s Fibre Channel
Base Model Network Ports:	4 x 1 GbE (RJ45 connectors)
Optional Additional Network Ports:	Two 10 GbE or 25/10 GbE ports – see hardware upgrade options
Network Protocols:	CIFS/SMB, NFS and FTP
Storage API:	S3
USB Ports:	1 x USB 3.0 in front 2 x USB 3.0 in rear
Number of Power Supplies:	Two – dual redundant
Power (per power supply):	100-240V; 50-60 Hz 800W
19 Inch Rack Form Factor:	2 U
Depth:	730 mm (28.75 inches)
Weight:	22 Kg (48.5 lbs)
Rack Rails:	Included
280 TB Node	
Disks:	24 x 14 TB SAS hot swap
Disk Configuration:	22 in RAID6 plus 2 x hot spares
Usable Capacity ¹ :	280 TB
RAID Cache:	64 GB
Interface to Archive Appliance:	2 x 16 Gb/s Fibre Channel
Number of Power Supplies	Two – dual redundant
Power (per power supply)	100-240V; 50-60 Hz 460W
19 Inch Rack Form Factor:	4 U
Depth:	500 mm (19.7 inches)
Weight:	43.5 Kg (96 lbs)
Rack Rails:	Included

Archive Appliance Upgrade Options

XenData Part Number	Description
101146	Dual port 10/25 GbE SFP28 network adapter pre-installed. Optical transceivers not included.
101092	Dual port 10 GbE SFP+ network adapter pre-installed. Optical transceivers (P/N 101081) not included.
101166	SFP28 25 Gb/s 100m Transceiver. Quantity 2 required to use both 10 GbE ports in the adapter.
101081	SFP+ 10 Gb/s LC Short Range Transceiver. Quantity 2 required to use both 10 GbE ports in the adapter.
101093	Dual port 10 GbE network adapter for use with CAT6 or UTP cabling pre-installed.
101141	2 x 16 Gb/s FC ports for connection to a 280 TB Node
101107	2 x SFF-8644 12 Gb/s SAS ports for connection to SAS LTO library.



Specification - Additional Node

XenData Part Number 305002

Disks:	24 x 14 TB SAS hot swap
Disk Configuration:	22 in RAID6 plus 2 x hot spares
Usable Capacity ¹ :	280 TB
RAID Cache:	64 GB
Interface to Archive Appliance ² :	2 x 16 Gb/s Fibre Channel
Number of Power Supplies	Two – dual redundant
Power (per power supply)	100-240V; 50-60 Hz 460W
19 Inch Rack Form Factor:	4 U
Depth:	500 mm (19.7 inches)
Weight:	43.5 Kg (96 lbs)
Rack Rails:	Included

Notes

- 1 TB equals 10¹² bytes.
- Requires two dedicated 16 Gb/s FC ports on Archive Appliance (XenData Part Number: 101141).

Contact Us

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