



CX-10

Cloud Storage Appliance



Archive & Backup in One Powerful Appliance

The CX-10 is a rack-mount appliance that connects to your network and allows you to both archive and backup to the cloud.

Archive to cloud object storage by creating a network share. Then write files to the share where they will first be written to the CX-10's internal 10 TB cache and then transmitted to cloud object storage. The CX-10 uses end-to-end logical block protection to ensure that your files are faithfully recorded in the cloud. Restore files from the archive, just like you would from any disk-based share on your network. You can even stream video files directly from the cloud and across your network.

Share your archive by providing read-only credentials to designated users. Then files may then be shared worldwide.

Backup one or more locally accessible file systems or file shares by scheduling synchronization tasks. An individual sync task will mirror an accessible file-folder structure to the cloud. And the sync tasks can be scheduled to occur hourly, daily, weekly or monthly. After the initial mirror copy is created, only the changes are transmitted to the cloud each time the sync task runs.

Agile backup recovery is provided because restore of important files and folders may be prioritized. Just browse the file system and copy and paste. Alternatively access the CX-10's mirror-copy and stream files directly from the cloud.

Disaster Recovery is built-in because the backups may be shared with any other facility, even if the CX-10 is no longer available. You can provide read-only access to the files to anyone worldwide. And they can use free utilities provided by the cloud storage provider to download. For example, with Azure, use Azure Storage Explorer to easily browse all the files previously uploaded by the CX-10 and then download individual files and folders.

The CX-10 supports **multiple clouds** including AWS S3, Microsoft Azure and Wasabi S3. The system may be configured to replicate files to different clouds and to different cloud locations.

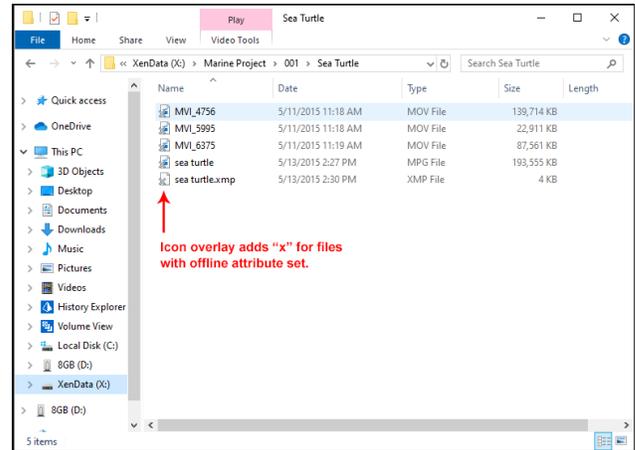
The CX-10 securely integrates into your existing environment. It runs **Windows 10 Pro** and conforms to the Microsoft security model based on Active Directory. It may be easily added to an existing Domain or Workgroup.

Key Functionality	Benefit
Archive to a network share that automatically writes files to Cloud Object Storage. Restoring is easy: it is just like reading a file from disk.	Allows you to use your existing file-based applications to benefit from cloud object storage for secure archiving.
Sync any accessible file system on your network to the cloud, creating a backup copy.	Instant data protection.
Share files worldwide that have been written to the cloud by providing read-only access to any designated user.	Allows you to share your archive with other facilities and remote users. And by sharing your backups, you have a copy of your files for disaster recovery.

Cache Frequently Accessed Files

All files written to the appliance are first stored on an internal 10 TB disk. This is used as a highly flexible cache. After a file is written to the disk cache, user-defined policies then determine how that file will be treated by the system. For example, you can define policies that write temporary files ending in '.tmp' only to the disk, never writing them to the cloud. Whereas, all other files are first cached on the 10 TB disk and then written to cloud object storage.

When a file has been successfully written to the cloud and is no longer stored on the disk cache, it is converted to a stub file. This is a representation of the file that takes minimal space on the disk. The stub file appears in the CX-10 file-folder structure with the same properties as the full file - with the same name, path, creation date, modified date, size, etc. But there is one property that changes: this is the Windows offline attribute which is set. It indicates that the full file is no longer available from disk and is used by other Windows machines in a networked environment to prevent time-outs when restoring files. File Explorer displays an icon overlay for files that have the offline attribute set, as shown opposite.

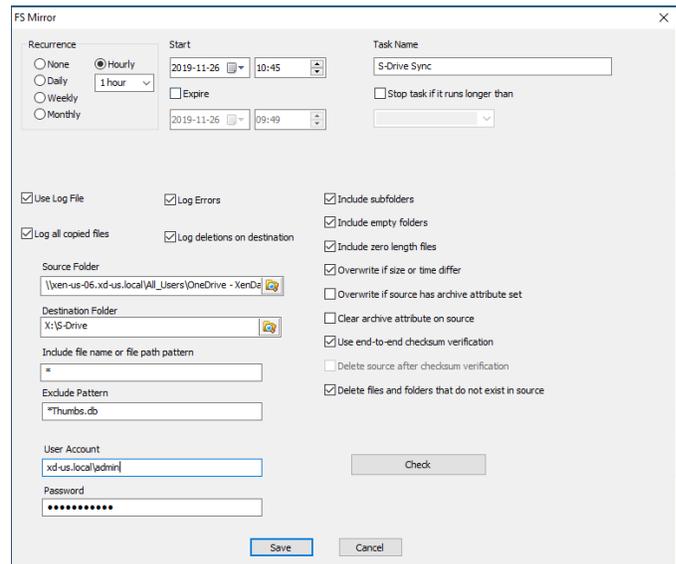


The user-defined policies also define cache retention times. This is the duration after the file was written or last read before it is converted to a stub file. As an example, you might want to write index files to the cloud and additionally keep them permanently on the disk cache. But all other files should be converted to stub files as soon as they are securely written to cloud storage. Policies such as these are easily implemented on the CX-10.

Sync Network Volumes

The CX-10 includes FS Mirror, a XenData utility that provides file-folder synchronization and mirroring functionality. You can schedule tasks to sync any accessible file-folder structure to the cloud.

FS Mirror tasks are easily configured using the User Interface illustrated opposite.



Task Performance

Start Time/Date: 9:45:00 AM 11/26/2019
 Stop Time/Date: 9:47:39 AM 11/26/2019
 Volume of Data Copied: 691 KBytes
 Average Transfer Rate: 43 KBytes/s

Task Summary

Total number of files processed on source	50454
Files successfully copied	5
Files skipped due to error	0
Other files skipped	50449
Number of files deleted on destination	1

Errors

None

Files Deleted on Destination

X:\S-Drive\Companies\N-Z\Invoices\Inv US19xxxx Oct14-19 - PO 2Checkout.pdf

Files and folders copied

\\xen-us-06-xd-us.local\All_Users\OneDrive - XenData\Shared with Everyone\Sales\Companies\N-Z\Services\Invoices_PO\Inv US19555 - Jul15-19 - PO 2Checkout-PAID.pdf
 \\xen-us-06-xd-us.local\All_Users\OneDrive - XenData\Shared with Everyone\Sales\Companies\N-Z\Foundation\Invoices\Inv US19803 Nov04-19 - PO 2Checkout-PAID.pdf
 \\xen-us-06-xd-us.local\All_Users\OneDrive - XenData\Shared with Everyone\Sales\Companies\N-Z\Foundation\Invoices\Inv US19803 Nov04-19 - PO 2Checkout.pdf
 \\xen-us-06-xd-us.local\All_Users\OneDrive - XenData\Shared with Everyone\Sales\Full_Access\LatinAmerica\Companies\Quotes\LEE191126-1.pdf
 \\xen-us-06-xd-us.local\All_Users\OneDrive - XenData\Shared with Everyone\Sales\Full_Access\LatinAmerica\Companies\Quotes\LEE191126-2.pdf

By enabling logging for an FS Mirror task, a log report is created each time the task is run. This can list all files copied, all deleted files and any files that were skipped due to being open. An example log report is shown opposite.

Base System Specification

XenData SKU: 232017

Management Software:	XenData Cloud File Gateway XenData FS Mirror XenData Alert Module
Licensed Cloud File Gateway Capacity:	12 months subscription for 10 TB of managed cloud object storage
FS Mirror license:	A perpetual license is provided
Operating System:	Microsoft Windows 10, Professional Edition
Processor:	4-core Xeon E3 v6
RAM:	16 GB
Managed Local Disk:	10 TB 7.2K SATA disk (a second disk may be added)
Boot volume disk:	240 GB M.2 SSD
Base Model Network Ports:	Two 1 GbE ports
Optional Additional Network Ports:	Two 10 GbE ports
Network Protocols:	CIFS/SMB, NFS and FTP
USB Connections:	Two USB 3.0 in rear; two USB 2.0 on front
PCIe slots:	Two: 1 x PCIe x 8, 1 x PCIe x 16
Number of Power Supplies:	One
Voltage:	100 – 240 V
Frequency:	50 – 60 Hz
Peak Power Requirements:	290 Watts
19 Inch Rack Form Factor:	1U
Depth	15.05 inches (382 mm)
Weight:	17.4 lbs. (7.9 Kg) maximum
Rack Rails:	Included

Upgrade Options

XenData SKU	Description
232016	Second 10 TB disk pre-installed in CX-10, configured as a mirror for redundancy
101049	Dual port 10 GbE network adapter HP 530SFP+ pre-installed in the CX-10. Transceivers (XenData SKU 101081) not included. Uses a spare PCIe slot.
101145	Dual port 10 GbE network adapter for use with CAT6 or UTP cabling pre-installed in the CX-10. Uses spare PCIe slot.
101081	SFP+ 10 Gb/s LC Short Range Transceiver for insertion in SKU 101049. Quantity 2 required to use both 10 GbE ports in the adapter.

Supported Cloud Storage



Contact Us

XenData USA

Address: 2125 Oak Grove Road, Suite 100, Walnut Creek, CA 94598
Phone: +1 925 465 4300 | **Email:** xendata@xendata.com

www.xendata.com

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XenData Europe

Address: Sheraton House, Castle Park, Cambridge CB3 0AX, UK
Phone: +44 1223 370114 | **Email:** xendata@xendata.com