

Release Note: XenData Archive Series Software

Version 7.21 (Build 4051)

Updated 07 Oct 2022

Version 7.21 is released for use with the following:

- ❖ Cloud File Gateway Edition
- ❖ LTO Edition optionally extended with ODA, Cloud File Gateway and Legacy Filesystem Extensions

It is released for installation on the following operating systems: Windows Server 2022, Windows Server 2019, Windows Server 2016, Windows Server 2012 R2 and Windows 10 on the X1 and X20 platforms. In each case, all Microsoft updates must be applied.

Enhancements

Version 7.21 enhancements relative to version 7.20 include the following:

- ❖ Addition of a new GUI feature called Active Files. This provides a real time progress display of files being read and written.
- ❖ Added new Wasabi regions, EU West 2 (Paris) and EU Central 2 (Frankfurt), London and Singapore
- ❖ Added new AWS region, Jakarta
- ❖ Added support for Seagate Lyve Cloud

Bug Fixes – General

Specific bug fixes included in version 7.21 relative to 7.20 include the following:

- ❖ Fixed an issue where Logical Block Protection failures were intermittently reported during writes when a system was under load.
- ❖ Fixed an issue where COM API over the network was failing.
- ❖ Multiple ODA fixes.
- ❖ Fixed an issue where copying many files containing multiple streams caused a dead lock.
- ❖ Fixed an issue that caused the repack function to fail for files written with logical block protection enabled in the writing application.
- ❖ Fixed an issue where the XenData medium changer driver would not return a serial number for libraries recognised as ADIC Scalar family.
- ❖ Fixed an issue which stopped Cache-A written TAR tapes being read.

Note: Upgrade process can be found at the bottom of this document

Version 7.20 (Build 3830)

Updated 09 Nov 2021

Version 7.20 is released for use with the following:

- ❖ Cloud File Gateway Edition
- ❖ LTO Edition optionally extended with ODA and Cloud File Gateway Extensions

It is released for installation on the following operating systems: Windows Server 2019, Windows Server 2016, Windows Server 2012 R2 and Windows 10 on the X1 and X20 platforms. In each case, all Microsoft updates must be applied.

Enhancements

Version 7.20 enhancements relative to version 7.11 include the following:

- ❖ Added support for LTO9 tape drives.
- ❖ Add an S3 interface to allow access from remote locations.
- ❖ Added support for cloud storage tiers, including AWS Glacier and Azure Archive Tier.
- ❖ Added support for Azure (BLOB) change feed service.

Bug Fixes – General

Specific bug fixes included in version 7.20 relative to 7.11 include the following:

- ❖ Fixed an issue where overwrites of files in the Azure archive tier would fail.
- ❖ Fixed a compatibility issue with Microsoft Advanced Threat Protection.
- ❖ Fixed an issue that could cause large restores from cloud to be unsuccessful.
- ❖ Fixed an ODA deadlock issue.
- ❖ Fixed library managed Encryption for LTFS.
- ❖ Added a check to stop filenames with characters unsupported by Azure from being uploaded.

Version 7.11 (Build 3663)

Updated 19th April 2021

Version 7.11 is released for use with the following:

- ❖ Cloud File Gateway Edition supporting Azure Blob storage, Amazon AWS, Wasabi S3 and other Generic S3 interfaces
- ❖ LTO Edition optionally extended with ODA and Cloud File Gateway Extensions

It is released for installation on the following operating systems: Windows Server 2019, Windows Server 2016, Windows Server 2012 R2 and Windows 10 on the X1 and X20 platforms. In each case, all Microsoft updates must be applied.

Enhancements

Version 7.11 enhancements relative to version 7.10p5 include the following:

- ❖ Added support to Multi-Site Sync for global file locking and "owner" file support for Microsoft Office and Adobe Premiere Pro.
- ❖ Implemented LTFS version 2.4, including general LTFS stability improvements.
- ❖ Added read only support for LTO cartridges written with Active Circle and Cache-A TAR proprietary formats.
- ❖ Added support for ODA3 USB.
- ❖ Implemented application specific optimizations for Microsoft Office and Adobe Premiere Pro files to support collaboration when using Multi-Site Sync. Renaming of files is blocked by default when Multi-Site Sync is installed.

Bug Fixes – General

Specific bug fixes included in version 7.11 relative to 7.10p5 include the following:

- ❖ Fixed bugs in the determination of which files should be included in an LTFS index, leading to inconsistent index sizes causing Alert volumes.
- ❖ Fixed a bug that could cause Azure file system check operations to fail with the message "A cloud file system 'download block list' operation failed with exception 'The specified blob does not exist'", if a previous file upload operation terminated before the first part of the file transfer had started.
- ❖ Fixed an LTFS exception which was provoked by the "force first read" advanced file group rule.
- ❖ Fixed a bug that caused catalogs with missing records to silently stop Multi-Site Sync.
- ❖ Fixed exceptions caused by catalog corruption.
- ❖ Fixed system crash caused when writing with NFS.
- ❖ Fixed a bug that caused the Archive Series service to crash when using long path names in Pending Write mode.

Known Issues

- ❖ Client Utilities does not work on Windows Server 2019 due to a change Microsoft have made. Currently advise using Windows Server 2016 if Client Utilities are needed.

Version 7.10p5 (Build 3585)

Updated 11th February 2021

Version 7.10p5 is released for use with the following:

- ❖ Cloud File Gateway Edition supporting Azure Blob storage, Amazon AWS, Wasabi S3 and other Generic S3 interfaces
- ❖ LTO Edition optionally extended with ODA (Fibre) and Cloud File Gateway Extensions

It is released for installation on the following operating systems: Windows Server 2019, Windows Server 2016, Windows Server 2012 R2 and Windows 10 on the X1 and X20 platforms. In each case, all Microsoft updates must be applied.

Bug Fixes – General

Specific bug fixes included in version 7.10p5 relative to 7.10p4 include the following:

- ❖ Fixed a deadlock between Archive Series and the Workflow API. Upgrade to Archive Series build 3585 and Workflow build 3584 or later.

Version 7.10p4 (Build 3537)

Updated 27th January 2021

Version 7.10p4 is released for use with the following:

- ❖ Cloud File Gateway Edition supporting Azure Blob storage, Amazon AWS, Wasabi S3 and other Generic S3 interfaces
- ❖ LTO Edition optionally extended with ODA (Fibre) and Cloud File Gateway Extensions

It is released for installation on the following operating systems: Windows Server 2019, Windows Server 2016, Windows Server 2012 R2 and Windows 10 on the X1 and X20 platforms. In each case, all Microsoft updates must be applied.

Bug Fixes – General

Specific bug fixes included in version 7.10p4 relative to 7.10p3 include the following:

- ❖ Improved management of Versions and Generations in Multi-Site Sync.
- ❖ Fixed issue where an LTFS index is written one block too small causing an alert volume.

Version 7.10p3 (Build 3495)

Updated 30th October 2020

Version 7.10p3 is released for use with the following:

- ❖ Cloud File Gateway Edition supporting Azure Blob storage, Amazon AWS, Wasabi S3 and other Generic S3 interfaces

It is released for installation on the following operating systems: Windows Server 2019, Windows Server 2016, Windows Server 2012 R2 and Windows 10 on the X1 and X20 platforms. In each case, all Microsoft updates must be applied.

Bug Fixes - General

Specific bug fixes included in version 7.10p3 relative to 7.10p2 include the following:

- ❖ Multi-Site Sync stability improvements.

Version 7.10p2 (Build 3451)

Updated 30th September 2020

Version 7.10p2 is released for use with the following:

- ❖ Cloud File Gateway Edition supporting Azure Blob storage, Amazon AWS, Wasabi S3 and other Generic S3 interfaces
- ❖ LTO Edition optionally extended with ODA (Fibre) and Cloud File Gateway Extensions

It is released for installation on the following operating systems: Windows Server 2019, Windows Server 2016, Windows Server 2012 R2 and Windows 10 on the X1 and CX-10 platforms. In each case, all Microsoft updates must be applied.

Enhancements

Version 7.10p2 enhancements relative to version 7.10p1 include the following:

- ❖ Added the ability to configure CosmosDB connection mode (Direct or Gateway) and protocol (HTTPS or TCP).
- ❖ Extra diagnostics added to XenData Multi-Site Sync Trace Log.

Bug Fixes - General

Specific bug fixes included in version 7.10p2 relative to 7.10p1 include the following:

- ❖ Fixed an issue with applications which save files by renaming.

Version 7.10p1 (Build 3424)

Updated 7th September 2020

Version 7.10p1 is released for use with the following:

- ❖ Cloud File Gateway Edition supporting Azure Blob storage, Amazon AWS, Wasabi S3 and other Generic S3 interfaces
- ❖ LTO Edition optionally extended with ODA (Fibre) and Cloud File Gateway Extensions

It is released for installation on the following operating systems: Windows Server 2019, Windows Server 2016, Windows Server 2012 R2 and Windows 10 on the X1 and CX-10 platforms. In each case, all Microsoft updates must be applied.

Bug Fixes - General

Specific bug fixes included in version 7.10p1 relative to 7.10 include the following:

- ❖ Fixed several bugs in Multi Site Sync improving stability
- ❖ Fixed a bug in FS Mirror introduced in 7.10, which stopped Username and Password being retained
- ❖ Fixed a bug in the Management Console that stopped Logical Block Protection being enabled.
- ❖ Fixed a bug that caused Metadata Backup utility to change single characters in metadata during a restore

Version 7.10 (Build 3389)

Updated 28th July 2020

Version 7.10 is released for use with the following:

- ❖ Cloud File Gateway Edition supporting Azure Blob storage, Amazon AWS, Wasabi S3 and other Generic S3 interfaces
- ❖ LTO Edition optionally extended with ODA and Cloud File Gateway Extensions

It is released for installation on the following operating systems: Windows Server 2019, Windows Server 2016, Windows Server 2012 R2 and Windows 10 on the X1 platform. In each case, all Microsoft updates must be applied.

Enhancements

Version 7.10 enhancements relative to version 7.05p2 include the following:

- ❖ Added support for Multi-Site Sync
- ❖ Added support for ODA3
- ❖ Improvements to FS mirror
 - Added an option to define if Hidden Files should be included/excluded
 - System files are no longer copied
 - Fixed a bug that meant restores from multiple tapes was inefficient
- ❖ Added support for 4 new Amazon S3 regions
- ❖ Implemented a single bucket S3 file System
- ❖ Implemented support for LTFS ByteOffset within an extent (used by e.g. Atempo ADA and Panasonic LTFS implementation)

Bug Fixes - General

Specific bug fixes included in version 7.10 relative to 7.05p2 include the following:

- ❖ Fixed a bug introduced in 7.05 that caused exceptions if a volume's primary replica is offline
- ❖ Fixed a bug that caused replication not to be scheduled correctly
- ❖ Fixed a bug where catalogs built with earlier versions of Workstation would cause exceptions
- ❖ Fixed a bug where an ODA cartridge would fail to unload after finalisation
- ❖ Fixed a filter driver deadlock when using FreeFileSync
- ❖ Fixed issues within the Tiered Storage Management Console

Version 7.05p2 (Build 3333)

Updated 16th April 2020

Version 7.05p2 is released for use with the following:

- ❖ Cloud File Gateway Edition supporting Wasabi S3 interfaces

It is released for installation on the following operating systems: Windows Server 2016, Windows Server 2012 R2 and Windows 10 on the X1 platform. In each case, all Microsoft updates must be applied.

Bug Fixes - General

Specific bug fix included in version 7.05p2 relative to 7.05p1 is:

- ❖ Fixed a bug where it was not possible to overwrite a file. Overwriting a file in object storage would put the volume/bucket into an alert state. The solution was to rebuild catalog and reset alert.

Note: Upgrade instructions can be found at the bottom of the Release Note.

Version 7.05p1 (Build 3308)

Updated 31st March 2020

Version 7.05p1 is released for use with the following:

- ❖ Cloud File Gateway Edition supporting Azure Blob storage, Amazon AWS and Wasabi S3 and other Generic S3 interfaces
- ❖ LTO Server Edition, optionally extended with FS Mirror and Cloud File Gateway Extensions

It is released for installation on the following operating systems: Windows Server 2016, Windows Server 2012 R2 and Windows 10 on the X1 platform. In each case, all Microsoft updates must be applied.

Bug Fixes - General

Specific bug fix included in version 7.05p1 relative to 7.05 is:

- ❖ Fixed a bug where files written to an LTFS format tape and subsequently renamed, would give an error during restore (File not accessible in the Volume catalog).

Version 7.05 (Build 3265)

Updated 17th January 2020

Version 7.05 is released for use with the following:

- ❖ Cloud File Gateway Edition supporting Azure Blob storage, Amazon AWS and Wasabi S3 and other Generic S3 interfaces
- ❖ LTO Server Edition, optionally extended with FS Mirror and Cloud File Gateway Extensions

It is released for installation on the following operating systems: Windows Server 2016, Windows Server 2012 R2 and Windows 10 on the X1 platform. In each case, all Microsoft updates must be applied.

Enhancements

Version 7.05 enhancements, relative to version 7.04p2, include the following:

- ❖ Various improvements to FS Mirror and the XenData Scheduler
 - Improved presentation of FS Mirror Log Reports
 - Scheduler errors are included in notifications provided by the Alert Module
 - A progress bar is added for FS Mirror, Replication, Deferred Write

- A viewer for FS Mirror Log files is added to the XenData Client Utilities
- ❖ Improvement to the Management Console including:
 - Slot count details are added to the library page showing full and empty slots.
 - Replication options are removed when they are not available, for example in an installation with one external LTO drive.
- ❖ File overwrite on a cloud system now writes the new version to the same bucket or container to which the original file was written.

Bug Fixes - General

Specific bug fixes included in version 7.05 relative to 7.04p2 are:

- ❖ Fixed a bug which could cause replicated an LTFS LTO volume to report full too early.
- ❖ Fixed a bug that caused an error repacking a TAR LTO tape which had a renamed folder
- ❖ Fixed a bug that could cause the XenData service to hang. The symptom would be that the Management Console would hang when Volume Sets were expanded

Version 7.04p2 (Build 3180)

Updated 3rd October 2019

Version 7.04p2 is released for use with the following:

- ❖ Cloud File Gateway Edition supporting Azure Blob storage, Amazon AWS and Wasabi S3 and other Generic S3 interfaces
- ❖ LTO Edition, and optionally extended with ODA and Cloud File Gateway Extensions

It is released for installation on the following operating systems: Windows Server 2016 or Windows Server 2012 R2 (with all Microsoft updates applied).

Bug Fixes - General

Specific bug fixes included in version 7.04p2 relative to 7.04p1 are:

- ❖ Fixed a bug which could cause repack to hang.
- ❖ Resolved an issue introduced in 7.04, which caused replication utilities like Robocopy to believe the date at the destination had changed, and therefore re-copy the data.
- ❖ Fixed an obscure issue which could cause an exception on a S3/LTO combined system.

Version 7.04p1 (Build 3163)

Updated 30th August 2019

Version 7.04p1 is released for use with the following:

- ❖ Cloud File Gateway Edition supporting Azure Blob storage, Amazon AWS and Wasabi S3 and other Generic S3 interfaces
- ❖ LTO Edition, and optionally extended with ODA and Cloud File Gateway Extensions

It is released for installation on the following operating systems: Windows Server 2016 or Windows Server 2012 R2 (with all Microsoft updates applied).

Enhancements

Version 7.04p1 enhancements, relative to version 7.04, include the following:

- ❖ Significant performance improvement on Cloud for rebuilt catalog and import folder structure.

Bug Fixes - General

Specific bug fixes included in version 7.04p1 relative to 7.04 are:

- ❖ Fixed a bug where certain security attributes would cause issues writing to cloud.

Version 7.04 (Build 3142)

Updated 9 August 2019

Version 7.04 is released for use with the following:

- ❖ Cloud File Gateway Edition supporting Azure Blob storage, Amazon AWS and Wasabi S3 and other Generic S3 interfaces
- ❖ LTO Edition, and optionally extended with ODA and Cloud File Gateway Extensions

It is released for installation on the following operating systems: Windows Server 2016 or Windows Server 2012 R2 (with all Microsoft updates applied).

Enhancements

Version 7.04 enhancements, relative to version 7.03p1, include the following:

- ❖ Added support for the LTO Edition on Windows Server 2016.
- ❖ Added support for Generic S3 interfaces.
- ❖ Added a single threaded option to the S3 Endpoint Configuration options for Wasabi and Generic S3.
- ❖ Improvements to the file rename operations.
- ❖ Added the ability to run a PowerShell script from the XenData Scheduler.
- ❖ Improved memory usage/footprint.

Bug Fixes - General

Specific bug fixes included in version 7.04 relative to 7.03p1 are:

- ❖ Fixes to LTO Edition for LTFS issues that caused alert volumes
- ❖ Fixed a deadlock that could occur with MAC OS clients.
- ❖ Various user interface fixes

Version 7.03p1 (Build 3115)

Updated 9 July 2019

Version 7.03 is released for use with the Cloud File Gateway Edition supporting Azure Blob storage, Amazon AWS and Wasabi S3 on the following operating systems: Windows Server 2016, Windows Server 2012 R2 (All Microsoft updates applied). It is also released for use with the LTO Edition, and optionally with ODA and Cloud File Gateway Extensions, on the following operating system: Windows Server 2012 R2 (All Microsoft updates applied).

Bug Fixes - General

Specific bug fixes included in version 7.03p1 relative to 7.03 are:

- ❖ ODA – Post Filesize verification fix.

Version 7.03 (Build 3082)

Updated 3 June 2019

Version 7.03 is released for use with the Cloud File Gateway Edition supporting Azure Blob storage, Amazon AWS and Wasabi S3 on the following operating systems: Windows Server 2016, Windows Server 2012 R2 (All Microsoft updates applied). It is also released for use with the LTO Edition, and optionally with ODA and Cloud File Gateway Extensions, on the following operating system: Windows Server 2012 R2 (All Microsoft updates applied).

Enhancements

Version 7.03 enhancements, relative to version 7.02p2, include the following:

- ❖ Added support for Wasabi and Amazon S3 cloud storage.
- ❖ Added Network API to allow XenData COM interface to be accessed across a network.
- ❖ Performance enhancement in the Azure filesystem.
- ❖ Added a Performance Run task for FS Mirror. This creates a test run report without copying any files. It's uses include comparing source and destination after performing a standard FS Mirror task.
- ❖ Added support for long paths to FS Mirror.

Bug Fixes - General

Specific bug fixes included in version 7.03 relative to 7.02p2 are:

- ❖ Fixed a memory leak that could occur using COM.
- ❖ Fixed a problem finalising Azure containers with larger catalogues.
- ❖ Improve handling of files written by a third party to an Azure storage account that are deleted and subsequently recreated externally (i.e. Azure Undelete).
- ❖ Numerous user interface improvements, including the 2 minor issues detailed in the 7.02p2 note below.
- ❖ Fixed a bug restoring via Volume View from Azure file systems.
- ❖ Changes to FS Mirror:
 - Fixed a bug that resulted in long calculation times when starting a task with large numbers of source files.
 - Various other bug fixes and minor UI fixes.

Version 7.02p2 (Build 2996)

Updated 26 February 2019

Version 7.02p2 is released for use with the Cloud File Gateway Edition and Azure Blob storage on the following operating systems: Windows Server 2016, Windows Server 2012 R2 (All Microsoft updates applied). It is also released for use with the LTO Edition, and optionally with ODA and Cloud File Gateway Extensions, on the following operating system: Windows Server 2012 R2 (All Microsoft updates applied).

Enhancements

Version 7.02p2 enhancements, relative to version 7.02, include the following:

- ❖ Added support for Facilis TerraBlock software.
- ❖ Updated Help files.
- ❖ Improvement to the "Import Folder Structure" operation to support external modification of cloud containers.
- ❖ Implemented file and directory security in Azure.

Bug Fixes - General

Specific bug fixes included in version 7.02p2 relative to 7.02 are:

- ❖ Fixed a memory leak that could occur using COM.

Note:

There are still a few minor issues with the new Management Console, these include:

- ❖ The pop-up boxes that are used to monitor import folder structure, rebuild catalog, repack, etc. do not always say OK when the process complete.
- ❖ There is no option to finalise a full TAR tape.

Version 7.02 (Build 2942)

Updated 20 December 2018

Version 7.02 is released for use with the Cloud File Gateway Edition and Azure Blob storage on the following operating systems: Windows Server 2016, Windows Server 2012 R2 (All Microsoft updates applied). It is also released for use with the LTO Edition, and optionally with ODA and Cloud File Gateway Extensions, on the following operating system: Windows Server 2012 R2 (All Microsoft updates applied).

Enhancements

Version 7.02 enhancements, relative to version 7.01p3, include the following:

- ❖ Addition of FS Mirror utility. FS Mirror is file system mirroring software that runs using the XenData Scheduler. It synchronizes file-folder structures between cloud, local disk, LTO and Sony Optical Disc Archive (ODA) storage.

Bug Fixes - General

Specific bug fixes included in version 7.02 relative to 7.01p3 are:

- ❖ Fixed an issue with ODA which caused problems when multiple drives were being used simultaneously.
- ❖ Fixed a small number of minor issues in the new Tired Storage Management Console.

Version 7.01p3 (Build 2874)

Updated 15 November 2018

Version 7.01p3 is released for use with the Cloud File Gateway Edition and Azure blob storage on the following operating systems: Windows Server 2016 and Windows Server 2012 R2. It is also released for use with the LTO Edition, and optionally with ODA and Cloud File Gateway Extensions, on the following operating system: Windows Server 2012 R2.

Enhancements

Version 7.01p3 enhancements, relative to version 7.01p1, include the following:

- ❖ Implemented Anchor Point and enabled them for the Azure file system

Bug Fixes - General

Specific bug fixes included in version 7.01p3 relative to 7.01p1 are:

- ❖ Fixed cosmetic issues with Import Folder Structure
- ❖ Resolved two issues which could cause the service to hang
- ❖ Fixed a bug which could cause re/build catalog to fail on foreign blob containers.

Version 7.01p1 (Build 2821)

Updated 03 September 2018

Bug Fixes - General

Specific bug fixes included in version 7.01p1 relative to 7.00 are:

- ❖ Forbidden deletion of Azure BLOB containers that are read-only.
- ❖ Fixed exception on BLOB container dismounts triggered by mount failures
- ❖ Disabled unavailable menu options (i.e. Reformat)
- ❖ Fixed refresh errors in management console
- ❖ Fixed issue with multi-threading in XenData COM
- ❖ Various other XenData COM fixes
- ❖ Fixed handling of empty file folders on file systems that do not support them

Enhancements

Version 7.01p1 enhancements, relative to version 7.00, include the following:

- ❖ Support added for Azure Key Vault when using the Cloud File Gateway.
- ❖ Azure Storage keys are doubly encrypted before being stored in the registry.
- ❖ XenData Archive Series service no longer stops in the absence of a license.
- ❖ Expanded the capabilities of the XenData COM/SQL interface.
- ❖ Cosmetic changes to the XenData Tiered Storage Management Console.

Upgrading from a prior version of XenData Archive Series or Cloud File Gateway

New versions of XenData software can be used by any customer who had a valid maintenance agreement in place with XenData on the effective release date.

To upgrade from a previous version of software, please follow these steps:

- ❖ If upgrading from 7.01 or prior, scheduled replication has moved to the XenData scheduler. Please ensure you set up your replication in the new location after the upgrade, as otherwise it will not take place.
- ❖ Set the XenData Archive Series service to manual and reboot.
- ❖ Un-install the current XenData software using Add/Remove Programs in the Windows Control Panel.
- ❖ If you are using ODA you will also have to uninstall the XenData ODAFS Driver.
- ❖ Reboot the server.
- ❖ Double click the XenData Archive Series installation file, XDServerx64-7.XX.XXXX.X.msi or XDCloudGatewayx64-7.XX.XXXX.X.msi, and follow the instructions provided by the setup wizard, accepting defaults. Select 'Typical' for the type of installation, unless a custom setup is required. During this process a window may be displayed asking which drive XenData should control. Select the drive to be controlled and select 'Next'.
- ❖ If you are using ODA you now need to install the Optical Disk Archive Extension Installer, this is done by double clicking on XDODAFSDriverx64-7.XX.XXXX.X.msi and following the instructions provided by the setup wizard, accepting defaults.
- ❖ When the installation is complete, reboot the server.

System configuration, storage account keys and license information will be maintained from the previous version.