



## **Tiger Bridge 5.0.4 Release Notes**

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## What's New in Tiger Bridge 5.0.4?

### Support for New Targets

With version 5.0.4, you can use the following new targets:

- Huawei cloud storage
- Zadara object storage
- Cloudian object storage

Refer to the latest version of the Tiger Bridge Administration Guide for storage prerequisites and configuration details.

### Support for Azure Cold Tier

Version 5.0.4 adds support for Azure Blob Storage Cold Tier, allowing you to map it for direct replication or archiving in the Tiger Bridge Configuration.

### Replication Using The Default Access Tier for a Storage Account in Azure

With version 5.0.4, instead of selecting a specific Azure tier for direct Tiger Bridge replication, you can choose to use the default access tier, specified for the storage account of the blob. This gives you more flexibility to change the tier of already replicated data en bloc by changing the default storage account tier through Azure. It will also allow you to use a new online access tier (currently, the options you can choose from are hot and cool) in case Microsoft adds support for such a tier.

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**Note:** Changing the tier of already replicated data through Azure is not valid for data that has been replicated using older versions of Tiger Bridge, as well as for manually replicated data, which you have selected to replicate to a specific tier.

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### Improved Mapping of Target Tiers/Storage Classes in the Configuration

On Amazon S3, Azure and Huawei targets, version 5.0.4 allows you to more easily map the desired target tier /storage class for its intended use with Tiger Bridge:

- The tier/storage class used for direct replication is specified when you pair a source with the target and can be changed later on.

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**Note:** With version 5.0.4 on Amazon S3 target, the only archival storage class you can use for direct replication is S3 Glacier Instant Retrieval. All other archival storage classes are available only when you add and configure the Archive policy.

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- Where applicable, the archival tier/storage class and the method for retrieving archived data are specified in the respective source's Archive policy.

## Archive Policy Improvements

In Tiger Bridge 5.0.4, the options available when attempting to add an Archive policy to a source depend on the particular target, it is paired with:

- On IBM COS, the Archive policy is greyed out and cannot be added.

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**Note:** As Tiger Bridge supports any S3 compatible object storage target, there is no way to determine whether the particular target provider offers an archive or not. In this case, Tiger Bridge lets you add an Archive policy, but displays an error when attempting to move files to the archive if no archive storage class is found.

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- On S3-compatible targets that do not allow third-party software to move data to the archive, you can only synchronize Tiger Bridge with the target provider's own archiving rule, if present, and this way let Tiger Bridge update archived files' status on the source.
- On all targets that allow third-party software to move data to the archival tier/storage class, you can configure a Tiger Bridge Archive policy that moves files to the archive and operates independently of the target's own archiving rule, if such a rule is enabled. Tiger Bridge's policy operates using the last access time of the files and the minimum file size. In addition, on Amazon S3, Azure and Huawei, you can select the storage class/tier used for archiving and the method for retrieving data from the archive.
- On IBM Cloud object storage target, you can enable, disable, and configure the target provider's own archiving rule through Tiger Bridge by specifying how long data should not have been accessed and what archive type should be used for archiving purposes.

## Tiger Bridge Tray Icon Enhancements

To facilitate you in accessing the different interfaces of Tiger Bridge through the tray icon, version 5.0.4 adds the following enhancements:

- clicking the tray icon opens the Tiger Bridge Configuration
- double-clicking the tray icon opens the Tiger Bridge Explorer using the preconfigured filter for files with pending replication
- right-clicking the tray icon displays the context menu allowing you to select further actions

## Fixes in Tiger Bridge 5.0.4

### Support for Sophos Antivirus Accessing a Tiger Bridge Source as a Network Share

With version 5.0.4, to prevent retrieval of invalid and incomplete data when Sophos antivirus attempts to read a stub file on a Tiger Bridge-managed source which Sophos accesses as a network share, specific read

requests sent by Sophos trigger the full retrieval of the file from the target.

## **Preventing the Queueing of Stub Files for Replication**

In some rare cases, Tiger Bridge could perceive stub files as regular files and queue them for replication. While stub files were not replicated, they remained in the queue leading to errors and further attempts to replicate them. Additionally, stub files queued for replication could not be used to retrieve their counterparts from the target. Version 5.0.4 resolves this and stub files are not queued for replication.

## **Specifying Included/Excluded Locations on a NAS Source**

By default, in the Global Replication Policy pane in the Tiger Bridge Configuration the root of the source location is added as an included location, meaning that all files on the source are automatically managed. In previous versions, although Tiger Bridge automatically added the root of a NAS source as an included location, the pane listed the root of the Control folder instead. This has been fixed in version 5.0.4.

## **Displaying the Minimized Window of the Tiger Bridge Configuration**

Version 5.0.4 resolves a problem that could prevent you from displaying the minimized window of the Tiger Bridge Configuration unless you click it in the Windows taskbar. Now you can display the minimized window of the Configuration by clicking the tray icon or double-clicking the Tiger Bridge icon on the desktop.

## **Automatically Trimming Trailing Spaces in Bucket/Container Name**

If the account whose credentials you use for access to the target does not have sufficient permissions to list all buckets/containers, you must manually enter the name of the bucket/container, which will be paired with the specific source. To prevent errors that may hamper the pairing of the source with the bucket/container, Tiger Bridge 5.0.4 automatically trims any trailing spaces in the text box where you enter the bucket/container name.

## **Using SAS Token as Azure Access Authentication in the Configuration**

In Tiger Bridge 5.0.4, all Azure access authentication methods available in the Configuration are listed with separate radio buttons, letting you more easily distinguish between the connection options and the necessary details you need to provide.

## **Preventing the Use of the Same Local Volume as Both Source and Target**

Tiger Bridge 5.0.4 does not allow you to configure the target of a local volume source to be on the same local volume.

## **Preventing the Pairing of More than One Source with the Same Target**

With version 5.0.4, Tiger Bridge does not allow you to pair two or more sources on the same computer with one and the same target (a cloud object storage bucket/container, a folder on a network share or locally mounted volume, etc).

## **Versioning Policy Greyed Out on Local Storage and NAS Targets**

Tiger Bridge does not allow you to add a Versioning policy to a source paired with a Local storage or NAS target.

## **Faster Synchronization of Source and Target Metadata**

Whether you are pairing a source with a target already containing data or you are synchronizing two or more sources through a common target, version 5.0.4 provides visibly faster synchronization of metadata and population of the source with stubs for missing files.

## **Improved Stability On Target Access Checks**

Version 5.0.4 reduces the checks for target accessibility to a minimum, thus improving stability.

## **Reduced Number of Orphan Objects on File Delete and Rename**

Version 5.0.4 provides improved file delete logic, reducing the number of orphan objects on the target when a file is deleted or renamed on the source.

## **Retrieving Files That Support Simultaneous Reading**

Tiger Bridge 5.0.4 resolves a problem that could prevent the retrieval of a file had it been open for parallel reading by two or more applications simultaneously and one of the read handles had been closed.

## **Updating the File Name/Path on the Target**

With version 5.0.4, whether or not the "Copy cloud object on rename" option is selected in the Configuration, should you rename a file or move it within the source, its replica on the cloud target is properly updated.

## **Reduced Number of Duplicate Objects on Syncing Target and Source**

Version 5.0.4 reduces to the maximum the possibility of duplicate objects pointing to the same file on the source when you synchronize the contents of the source and target during the initial pairing or manually.

## Re-replicating a Partially Modified File

Version 5.0.4 resolves a problem that could prevent the re-replication of parts of a file that had been retrieved and modified on the source. Now, as long as the "Allow partial updates" option is enabled and you are using an application that allows accessing and modifying only part of a file, re-replicating the modified portions works normally.

## Upgrading to Tiger Bridge 5.0.4

### Upgrading from Version 4.x and Above

To upgrade Tiger Bridge to this new version, you should simply run the installation of version 5.0.4 on the computer running Tiger Bridge. All configuration settings will be preserved after the upgrade.

### Upgrading from Version 3.x and Below

To avoid having two instances of the Tiger Bridge Configuration after the upgrade, it is advisable to uninstall the previous version from the computer and then perform a clean installation of version 5.0.4 by following the steps in the Administration Guide. All configuration settings will be preserved after the upgrade.

## Unresolved Known Issues

### Displaying the Tiger Bridge Tray Icon

In some cases, after upgrading to version 5.x, the Tiger Bridge tray icon may not show initially. To resolve the problem, you should either restart the computer after the upgrade or start the tray icon manually by double-clicking `tier_tray.exe` in the installation folder of Tiger Bridge.

### Retrieving Offline Files from Google Cloud

Unlike other cloud targets, offline files stored on a Google Cloud target are retrieved directly on the source when you attempt to open them or to rehydrate them manually.

### Using Versioning Software on Azure Append/Page Blob

When using versioning on Microsoft Azure append or page blob as a target, you should keep in mind that the first version of each file is not kept, and the second version overwrites it. From the second version onwards, versioning works as expected on Azure append and page blobs.

A workaround to the problem is to introduce an insignificant change to the file after it has been initially replicated on the Azure append/page blob (such as an added interval at the end of a text document, for example) to trigger versioning for that file from that change onwards.