

Binary Tree® Directory Sync Pro for Active Directory 20.11.1

Release Notes

June 2023

These release notes provide information about the Binary Tree Directory Sync Pro for Active Directory 20.11.1 release.

Topics:

- [About this release](#)
- [Enhancements](#)
- [Resolved issues](#)
- [Known limitations](#)
- [System requirements](#)
- [Product licensing](#)
- [Upgrade and installation instructions](#)
- [More resources](#)
- [Globalization](#)
- [About us](#)

About this release

Binary Tree Directory Sync Pro for Active Directory sets up and maintains an Active Directory sync between multiple AD domains.

Directory Sync Pro for Active Directory 20.11.1 is a minor release, with enhancements and resolved issues.

Enhancements

The following is a list of enhancements implemented in Directory Sync Pro for Active Directory 20.11.1.

Table 1. General enhancements

Enhancement	Issue ID
Directory Sync Pro has been updated to use .NET Framework 4.8. The Admin Agent uses .NET 4.7.2.	32416

Licensing has been updated to support license termination.	34116
SQL Server 2019 is now supported.	34287
SQL Server 2022 is now supported.	37190
Windows Server 2022 now supported.	37191
Updated the ignore/filtering to first ignore based on the objectsid. If there is no objectsid to ignore/filter, the original sAMAccountName is used.	41330
The Directory Sync Pro for Active Directory Log Viewer has been removed.	43137

Resolved issues

The following is a list of issues addressed in this release.

Table 2. General resolved issues

Resolved Issue	Issue ID
Unable to handle accounts that contain apostrophe character (').	32736
NetSPI: Weak Cryptography - Weak Initialization Vector: The encrypt/decrypt functions that use this key have been marked as obsolete. However, this code has been left in place to enable customers using product version 20.10.1.4 and below to upgrade to later versions. After upgrade, items encrypted with the obsolete function will automatically be recalculated and stored with the new secure functions that replaced this. (35119)	35119
NetSPI: Password Management: Password in Comment.	35120
NetSPI: Microsoft ASP.NET Debugging Enabled.	35121
NetSPI: Password Management - Hardcoded Passwords.	35122
NetSPI: Resource Injection: This function intentionally generates a connection string from user supplied information.	35123
NetSPI: Insufficient Logging: In each of these instances occasional exceptions are expected and the calling code deals with default return values. Logging is not necessary and can be disruptive for the end user.	35124
Directory Sync incorrectly checks for license when running under simulation mode.	36487
When a source object's Match attribute is only whitespace, Directory Sync Pro generates an invalid LDAP filter.	37555
Chinese characters in the user principal name carry over as question marks (???) to the target.	41329
Password sync fails for objects with non-English characters in the sAMAccountName.	41574
Installations and upgrades fail when FIPS is enabled.	42800
Service throws a NullReference exception when a license is not installed and sync is started.	42910

Known limitations

The following is a list of known limitations or issues, including those attributed to third-party products, known to exist at the time of this release.

Table 3. Exchange and AD Sync known limitations

Known limitation	Issue ID
Directory Sync Pro for Active Directory cannot sync the same source directory to more than one target directory using the same SQL database. The supported configuration for this is separate instances of Directory Sync Pro for Active Directory writing to separate SQL databases.	4650
Renames and moves fail to work if you are using a manual /repushpull or /resync command. Before running the /repushpull /repush /repull and /resync commands, administrators should clear the target OU of any previously created Directory Sync Pro for Active Directory objects.	4651
When synchronizing objects into Exchange 2003 (only), the option to hide from the GAL will not function if the Recipient Update Service (RUS) is enabled.	4657
Directory Sync Pro for Active Directory does not sync OU attributes such as Managed By or Description.	4667

Table 4. Exchange and AD Sync - Device Synchronization known limitations

Known limitation	Issue ID
Support for mismatched device names using overrides and mapped values will be added in a future release.	4666

Table 5. Exchange and AD Sync - Group Objects known limitations

Known limitation	Issue ID
Directory Sync Pro for Active Directory will create nested group objects as User Objects during syncing when Blank or Invalid LDAP filters have been applied in the Sync Profile for source OU under User Filter. The user should apply (ObjectClass=x) LDAP filter if they do not want to migrate any of the user objects.	4662

Table 6. Exchange and AD Sync - Password Sync known limitations

Known limitation	Issue ID
Directory Sync Pro for Active Directory will encounter an error if the Administrator password contains special characters such as ", #, =. Take care using special characters in the Administrator password to avoid issues when performing the password copy portion of the synchronization.	4661
Password sync does not support usernames that contain spaces.	4675
Password sync does not support AES hashes.	31353
The RC4 encryption (Rivest Cipher 4 or RC4-HMAC) is an element of Microsoft Kerberos authentication that Quest migration products require to sync Active Directory passwords between Source and Target environments. Disabling the use of the RC4 protocol enabled makes password syncing between environments impossible. Beginning on November 8, 2022 Microsoft recommended an out of band (OOB) patch be employed to set AES as the default encryption type. The enabling and disabling use of the RC4 encryption protocol has potential impact beyond the function of password syncing of Quest migration tooling and should be considered carefully.	N/A

Table 7. Exchange and AD Sync - User Objects known limitations

Known limitation	Issue ID
If the AD to AD profile is configured to create mail-enabled users, and the source objects are mail-disabled, the objects in the target directory will be incorrectly stamped with an email address policy (if configured).	4658
There is an issue with the Target ThumbnailPhoto attribute being updated when it has been changed in the Source.	4670
When synchronizing AD to AD, converting a contact to a mail enabled user fails with an error regarding duplicated ProxyAddress caused by Directory Sync Pro for Active Directory trying to add the Contact's LegacyExchangeDN as the X500 address. Since the LegacyExchangeDN is already listed as a x500 address, it cannot be added.	4672
To synchronize the UserAccountControl attribute, an Exchange Migration Directory Sync Pro for Active Directory profile should be utilized. This attribute will not be synchronized if using and Active Directory Sync profile.	4678

Table 8. General Synchronization known limitations

Known limitation	Issue ID
Attempts to edit target objects synchronized from Exchange 2010 to Exchange 2003 will result in a dialog prompting you to click 'yes' to upgrade the object to the latest version. Objects should only be updated or deleted from the source directory.	4652
If the BTDirsync or BinaryTree.Dirsync.Exchange.exe service is not running, a warning or error message does not appear in the UI when you attempt to sync.	4660
Rooms, Resource, and Mail-in Databases are created without a proxy address or target address if the user mappings are removed.	4669
Directory Sync Pro for Active Directory cannot create an AD Container Object in the Target AD and cannot create objects that are contained in a Container.	4671
Directory Sync Pro for Active Directory does not populate the Manager attribute if the manager and subordinate are the same user.	4673
When a user object has another user object set as a manager and the manager user object does not exist in Target, the user object gets created, but the manager attribute is not set and an "unable to find Manager object" error is logged. If sIDHistory is being migrated, since this occurs after the object is	4674

created in the target, the NeedsAttention field is Zero (0), so the object is not resync'd and the manager attribute is not updated. If sIDHistory is not being migrated, the NeedsAttention flag remains a 1, so when the manager object is synced, the manager attribute does update successfully.

Discover Custom Attributes may not launch or complete correctly when run multiple times. Restarting the Directory Sync Pro for Active Directory Service resolves this issue.	4676
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Table 9. Installation known limitations

Known limitation	Issue ID
The default installation path (C:\Program Files\Binary Tree) contains a space between "Binary" and "Tree". If you are also installing Notes Integration CMT on the same servers, there will be two Binary Tree folders, one with a space and one without. This does not impact the functionality of either product.	4659
If the Local Security Option FIPS is enabled on the system where the Directory Sync Pro for Active Directory console is installed, the Directory Sync Pro for Active Directory Profiles will not be saved due to Directory Sync profile encryption technology being blocked by FIPS security setting. It is recommended to disable this security setting on the Directory Sync Pro for Active Directory console machine.	4665
A new passive node is created if Directory Sync Pro for Active Directory is uninstalled and re-installed and pointed to an existing SQL database.	4668
If using McAfee Antivirus software, the BTPassSvc.exe file should be excluded so it is not viewed as a potential virus.	4679
If using Symantec Antivirus software, the BTPassSvc.exe file should be added as an exception, so it is not viewed as a potential virus.	4680
If certain values in the advanced menu, such as Auto Map or Discover custom attributes, are grayed out following an installation, you may need to wait a while and then restart the service for them to become active.	14625

Table 10. Licensing known limitations

Known limitation	Issue ID
If an override TypeOfTransaction is set to an unrecognized value (i.e. "Skip") then a license will be burned. Valid TypeofTransaction values to use in an override are: Insert, Modify, Rename, Move and Delete.	4648

Table 11. Mapping known limitations

Known limitation	Issue ID
Creating a mapping and synchronizing the group attribute msExchCoManagedByLink from AD to AD will cause a synchronization error in the Directory Sync Pro for Active Directory log and the group object will not be created or updated in the target AD.	4663

Table 12. Matching known limitations

Known limitation	Issue ID
Enabled IPV6 on the Binary Tree Directory Sync Pro for Active Directory (DirSync) servers can cause referral matching to fail. IPV4 is the preferred version.	4655

Table 13. Override known limitations

Known limitation	Issue ID
When you save an override, Directory Sync Pro for Active Directory re-generates the Person or Groups view. It does this by dynamically generating a	4664

single SQL statement using the snippet of SQL code that is part of all overrides. The max size for this SQL statement is 8000 total characters. If many new overrides are added this limit could be exceeded and an error when adding the overrides will occur. In addition to the default overrides, approximately 15-20 more Person and 20-25 Group overrides can be added before hitting the size limit.

Table 14. SQL known limitations

Known limitation	Issue ID
Deleting an object from both the target and source Active Directory (AD) will cause errors during the next directory synchronization, unless the object row is deleted from the SQL database. Binary Tree strongly recommends that updates and deletes are made from the source directory only.	4649
Removing a synchronization profile by using the Remove Domain button in the Directory Sync Pro for Active Directory UI does not remove the information from the SQL database.	4653
BT_Config.Description column exists in the SQL table, but is no longer used in the UI.	4654

Table 15. UI known limitations

Known limitation	Issue ID
Resync (same as repushpull but runs for all profiles) and repushpull can only be run manually from a command line and are not available in the user interface.	4656

System requirements

Refer to the Binary Tree Directory Sync Pro for Active Directory and Migrator Pro for Active Directory 20.11.1 Requirements and Installation Guide (<https://support.quest.com/technical-documents/binary-tree-directory-sync-pro-for-active-directory/20.11.1/requirements-and-installation-guide>) for system requirements.

Product licensing

A valid license is required for Binary Tree Directory Sync Pro for Active Directory and Binary Tree Migration Pro for Active Directory.

To obtain licenses, see information on this page <https://www.quest.com/company/contact-us.aspx> or contact the sales team at sales@quest.com

To specify a license file:

When opening the application for the first time, you are prompted to add a license before proceeding.

To view or add a license file:

1. In the upper-right menu, under Settings, select **Licenses**.
2. View the existing license info or click **Add License**.

Upgrade and installation instructions

Refer to the Binary Tree Directory Sync Pro for Active Directory and Migrator Pro for Active Directory 20.11.1 Requirements and Installation Guide (<https://support.quest.com/technical-documents/binary-tree-directory-sync-pro-for-active-directory/20.11.1/requirements-and-installation-guide>) for installation instructions.

More resources

Additional information is available from the following:

- Online product documentation (<https://support.quest.com/binary-tree-directory-sync-pro-for-active-directory/20.11.1/technical-documents>)

Globalization

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release is Unicode-enabled and supports any character set. In this release, all product components should be configured to use the same or compatible character encodings and should be installed to use the same locale and regional options. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe, Far-East Asia, Japan. It supports bidirectional writing (Arabic and Hebrew). The release supports Complex Script (Central Asia – India, Thailand).

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Quest Software Inc.

Attn: LEGAL Dept

4 Polaris Way

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