GALsync® v8.7

Upgrade Instructions

NETsec

27. July 2026

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GALsync version 8.7

As of version 8.7, GALsync requires **.NET Framework 4.8**, **Windows PowerShell 5.1** and **ExchangeOnlineManagement PowerShell module version 3.10.1 or later** for **Exchange Online PowerShell V3**.

As of version 8.6, user-based authentication for Exchange Online has been removed.

As of version 8.5, GALsync supports **Microsoft Graph** to access mailboxes in Exchange Online.

As of version 8.2, GALsync has added support to **Modify existing contacts with source domain**. This option allows to migrate the export policy in a hybrid Exchange environment from the on-premises component to the Exchange Online component of a hybrid Exchange environment, and from the Exchange Online component to the on-premises component of a hybrid Exchange environment.

As of GALsync version 8.1, the certificate-based authentication method to establish a connection to Exchange Online is available in the Environment Configuration. Exchange Online connections using the certificate-based authentication method, Azure AD App Permissions of a registered application are used for access.

GALsync synchronizes the Global Address List (GAL) between different Exchange environments, which can be on-premises Exchange environments or Exchange Online of Office 365 tenants.

For each Exchange environment, you can select which mail-enabled objects will be synchronized as mail-enabled contacts to the other Exchange environments. Also, you can configure how the received mail-enabled objects from the other Exchange environments will be synchronized as mail-enabled contacts to your own Exchange environment.
This will make the mail-enabled objects from the other Exchange environments visible as contacts in the Global Address List (GAL).

As of GALsync version 8.0, the **Environment Configuration** describes the Exchange environment and its settings by which GALsync connects to Exchange, which eliminates the requirement configure authentication separately for each policy. Instead, GALsync now uses the credentials assigned to each configured environment.

** Microsoft will be stopping support for Exchange 2016 and Exchange 2019 on the 14th October 2025. Microsoft stopped supporting Exchange 2013 on the 11th April 2023. As much as we would like to keep up compatibility for all versions, we cannot support an environment which is no longer supported by the manufacturer.*

Important: You have to upgrade all versions which synchronize data between your organizations. Synchronization between different GALsync versions is not supported.

Download

Download the most recent version from our website:
https://www.netsec.de/en/products/galsync/download.html

Important: You have to upgrade all versions which synchronize data between your organizations. Synchronization between different GALsync versions is not supported.

Upgrade Instructions

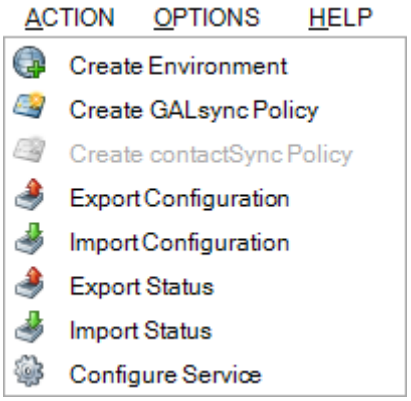
For updates from GALsync version 8.x to GALsync version 8.x

To install a new GALsync version, perform a backup of your GALsync data and install the new version.

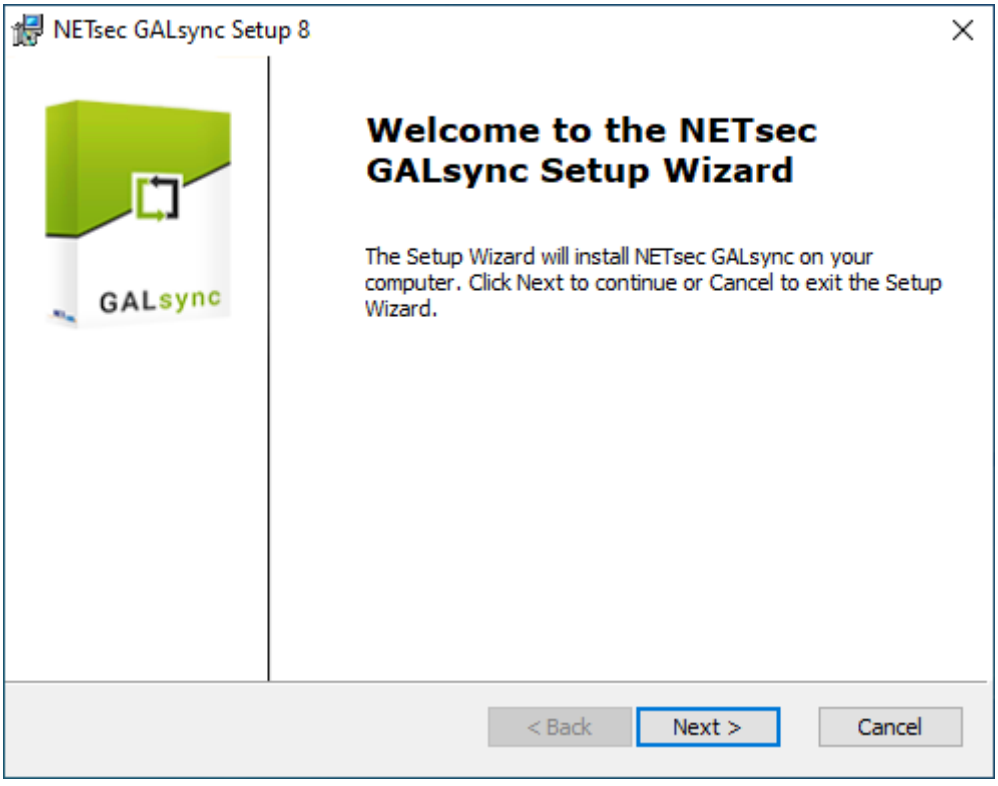
1. Backup (or copy) your GALsync program folder and the **common application data** folder.

Select **Action** -> **Export Configuration** to zip your Environment Configuration and Policy configuration.

Select **Action** -> **Export Status** to zip your log files.



2. Install the new GALsync version.



Please see the **Incompatibility** chapter.

Important: Depending on the version gap, it may be necessary to reconfigure some options in your policies.

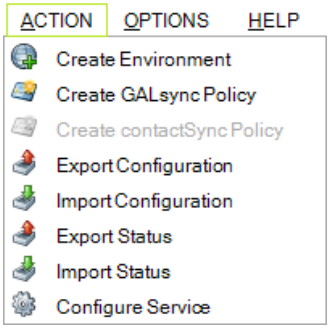
For updates from GALsync version 6 and 7 to GALsync version 8.x

To install a new GALsync version, perform a backup of your GALsync data and install the new version.

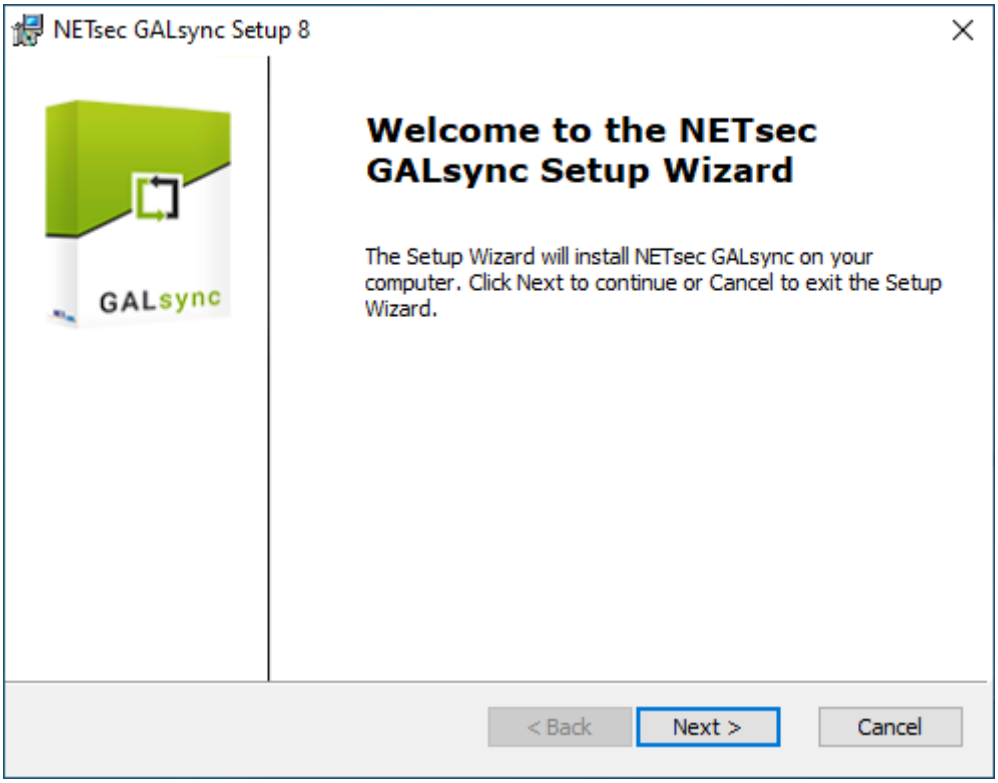
1. Backup (or copy) your GALsync program folder and the **common application data** folder.

Select **Action** -> **Export Configuration** to zip your Policy configuration.

Select **Action** -> **Export Status** to zip your log files.



2. Install the new GALsync version.



As of GALsync version 8, an **Environment Configuration** is necessary and must be configured. After that, existing policies can be migrated, and new policies can be created and configured. The value for the source domain is expanded, so that the first import policy run will update all imported GALsync objects after the upgrade from GALsync version 7 or earlier versions.

Important: Depending on the version gap, it may be necessary to reconfigure some options in your policies. Please see the **Incompatibility** chapter.

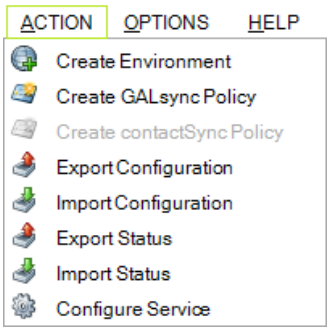
For updates from GALsync version 4 and 5 to GALsync version 8.x

To install a new GALsync version, perform a backup of your GALsync data and uninstall the old version.

1. Backup (or copy) your GALsync program folder and the common application data folder.

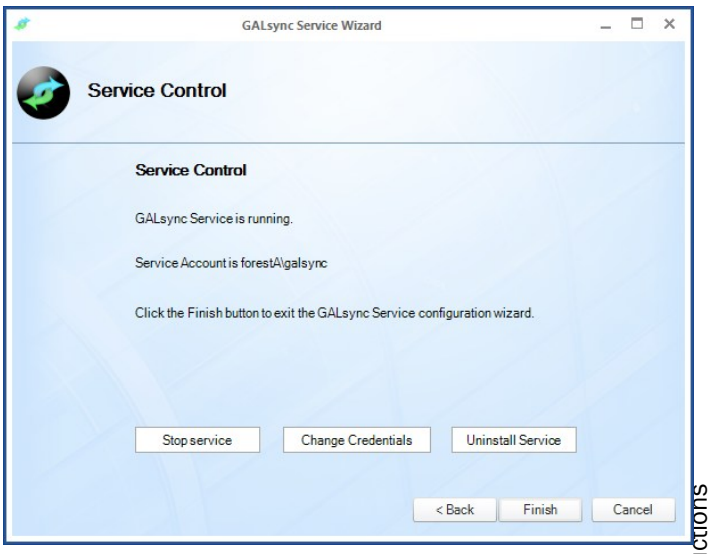
Select **Action** -> **Export Configuration** to zip your Policy configuration.

Select **Action** -> **Export Status** to zip your log files.



2. Uninstall the GALsync service before removing the GALsync software to prevent system from rebooting.

Select **Action** -> **Configure Service** to uninstall the GALsync service.



After clicking **Uninstall** Service finish the wizard.

3. Uninstall your current version (Windows control panel -> add/remove programs). Your policy data (configuration) in the folder **all users / application data** will be retained, so you can reuse them with the new version.

4. Install the new GALsync version.

As of GALsync version 8, an **Environment Configuration** is necessary and must be configured. After that, existing policies can be migrated, and new policies can be created and configured. The value for the source domain is expanded, so that the first import policy run will update all imported GALsync objects after the upgrade from GALsync version 7 or earlier versions.

Important: Depending on the version gap, it may be necessary to reconfigure some options in your policies.

Please see the **Incompatibility** chapter.

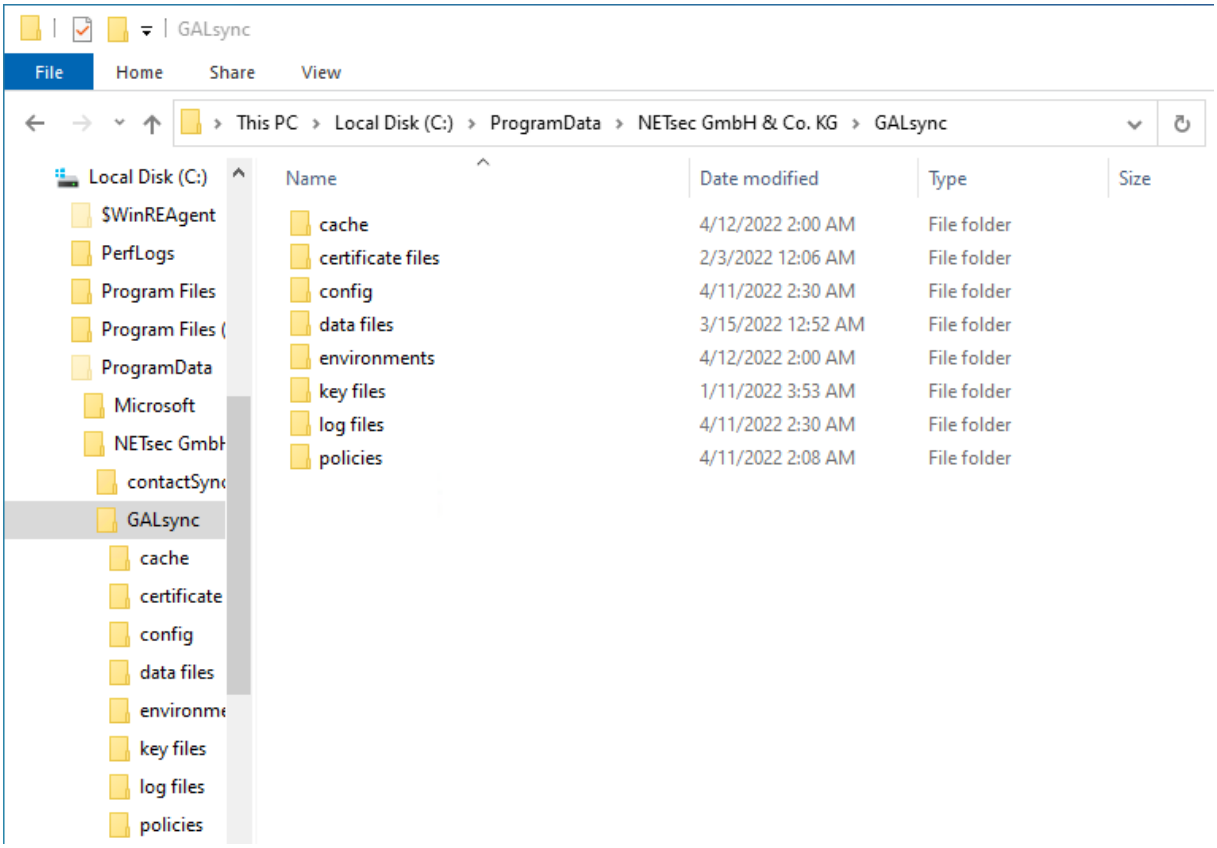
Where is the common application data folder?

The common application data folder can be retrieved in the Windows Explorer with the command

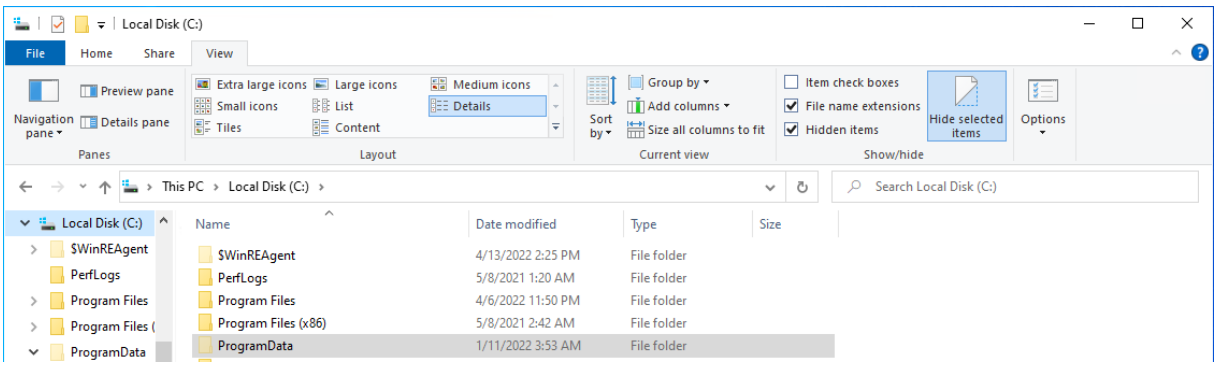
```
%ProgramData%\NETsec GmbH & Co. KG\GALsync
```

or

```
%systemdrive%\ProgramData\NETsec GmbH & Co. KG\GALsync
```



Note: The folder **ProgramData** is usually hidden. You may activate the option **Hidden items** of the File Explorer.



Incompatibility

GALsync version 8.7 compared with GALsync 8.6.3

1. As of version 8.7.0, GALsync requires **.NET Framework 4.8**, **Windows PowerShell 5.1** and **ExchangeOnlineManagement PowerShell module version 3.10.1 or later** for **Exchange Online PowerShell V3**.

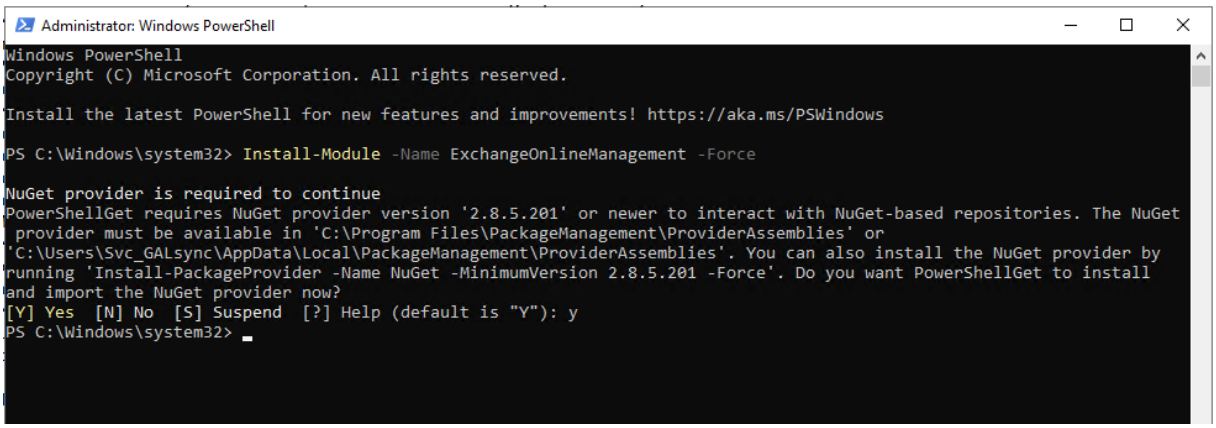
The **ExchangeOnlineManagement PowerShell module** needs to be installed or updated on the GALsync Server, so GALsync can directly communicate with a Microsoft 365 Exchange Online tenant.

Install ExchangeOnlineManagement PowerShell module

On the GALsync Server, open **Windows PowerShell** as **Administrator**, then run the following to install:

```
Install-Module -Name ExchangeOnlineManagement -Force
```

When prompted, enter **Y** for Yes then Return



Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter in the **Microsoft Docs: About the Exchange Online PowerShell module**

https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#install-the-exchange-online-powershell-module

Update ExchangeOnlineManagement PowerShell module

On the GALsync Server, open **Windows PowerShell** as **Administrator**, then run the following to update:

```
Update-Module -Name ExchangeOnlineManagement -Force
```

Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter in the **Microsoft Docs: About the Exchange Online PowerShell module**

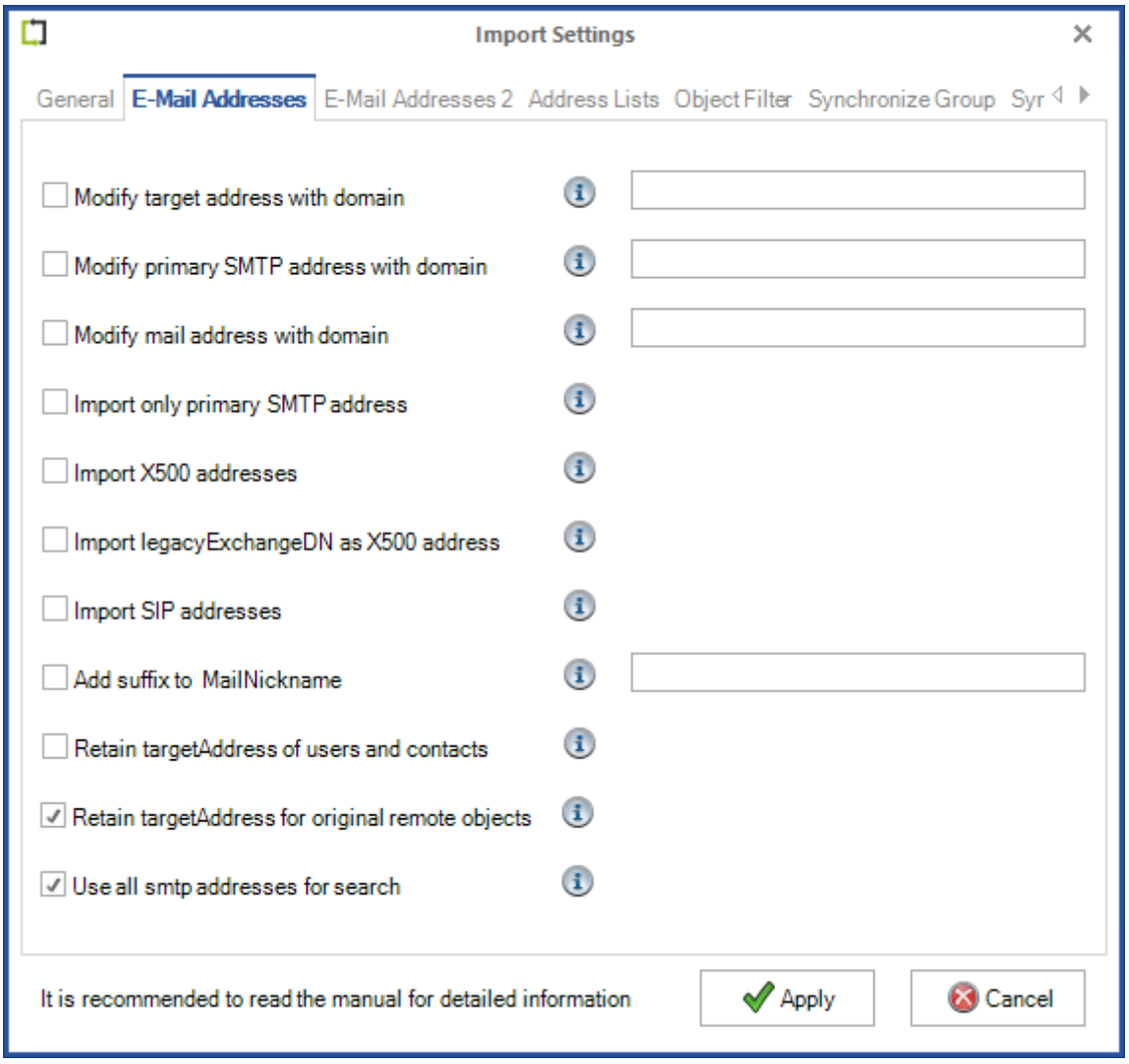
https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#update-the-exchange-online-powershell-module

GALsync version 8.6.3 or later compared with GALsync 8.6.2 and earlier

1. As of version 8.6.3, in the **Import Settings** the new option **Use all smtp addresses for search** is enabled for newly created import policies by default.

If this option is enabled, GALsync searches not only for the primary SMTP address of the source objects, but also for their secondary smtp addresses in the global catalog of the target environment.

If an object with such a smtp address already exists in the target environment, GALsync logs a warning, as this prevents the creation of a new object.



2. GALsync requires **.NET Framework 4.8**, **Windows PowerShell 5.1,** and the **ExchangeOnlineManagement PowerShell module version 3.6 up to version 3.9.2** for **Exchange Online PowerShell V3**.

Please note that the **ExchangeOnlineManagement PowerShell module version 3.10.0** has a bug and will not work.

[Bug] ExchangeOnlineManagement uses incorrect TenantId in requests

https://techcommunity.microsoft.com/discussions/windowspowershell/bug-exchangeonlinemanagement-uses-incorrect-tenantid-in-requests/4533602

[Bug] AuthenticationResult.TenantId returns authority tenant domain rather than canonical tenant GUID for AcquireTokenForClient in MSAL.NET 4.83.x #6093

https://github.com/AzureAD/microsoft-authentication-library-for-dotnet/issues/6093

The **ExchangeOnlineManagement PowerShell module** needs to be installed or updated on the GALsync Server, so GALsync can directly communicate with a Microsoft 365 Exchange Online tenant.

How to install a specific version of Exchange Online PowerShell?

This applies if you need a specific version of the Exchange Online PowerShell module in **Windows PowerShell 5.1** on the Windows Server, because a higher version does not currently work.

Start the **Windows PowerShell** as **Administrator**

```
# Uninstall all existing versions
Uninstall-Module -Name ExchangeOnlineManagement -AllVersions -Force;
```

```
# Install the required version, e.g., version 3.9.2
Install-Module -Name ExchangeOnlineManagement -RequiredVersion 3.9.2 -Force;
```

```
# Check installed version
Import-Module ExchangeOnlineManagement; Get-Module ExchangeOnlineManagement;
```

GALsync version 8.6 compared with GALsync 8.5.6

1. As of version 8.6, the program version used to prepare the data file is written on the data file itself as information for the importing partners.

It is strongly recommended that everyone uses the same latest version.

Unfortunately, anyone using a version older than 8.2.0 will no longer be able to import data files and will need to update to the current version.

Starting with version 8.6.0, a note is written to the import summary if the program versions of the environments involved are different.

- Source uses the old program version
- Source uses the newer program version

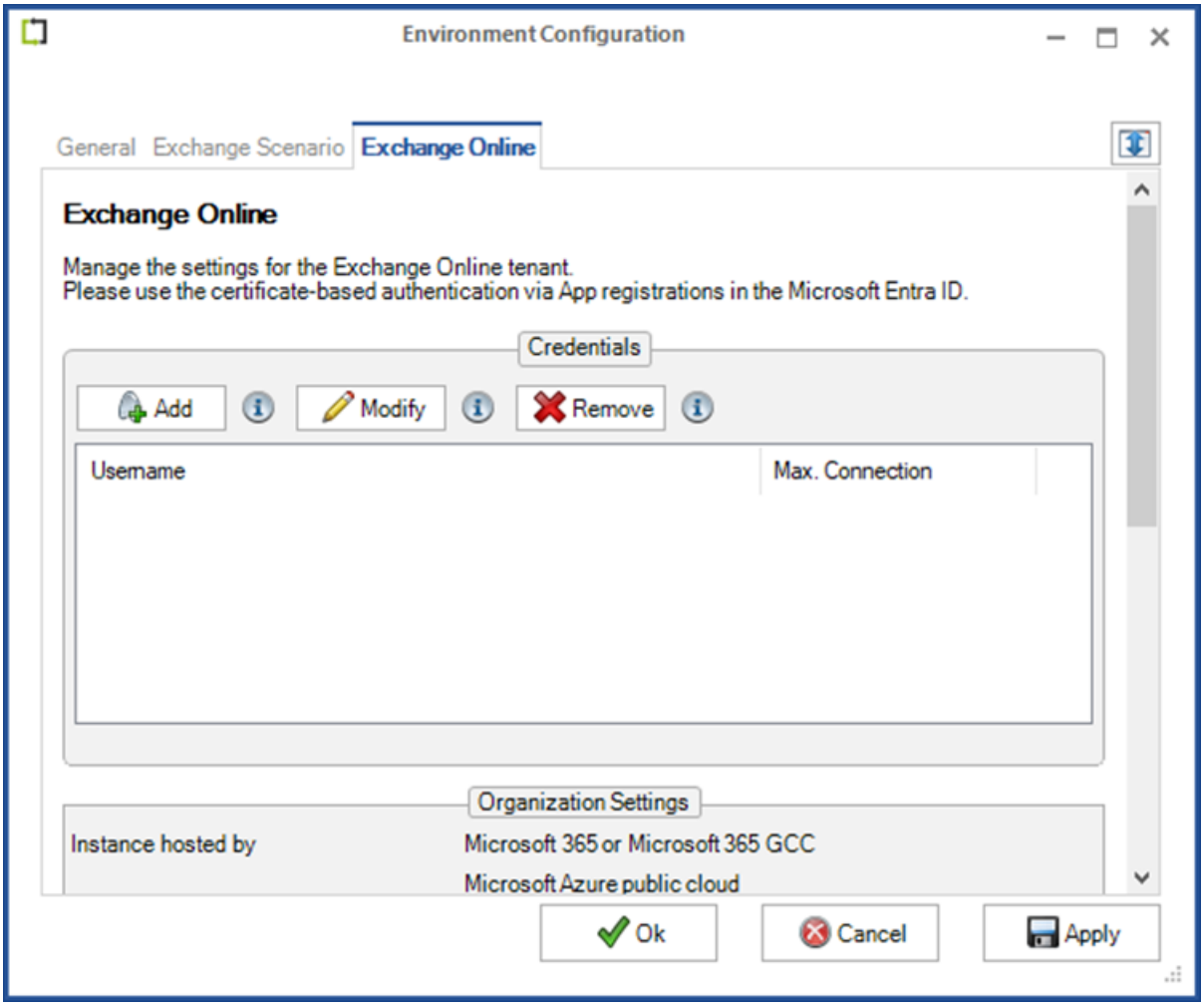
2. As of version 8.5.6, user-based authentication for applications no longer works.

For this reason, the option to create a new user-based credential account has been deactivated. Please note, Microsoft requires multifactor authentication for user-based accounts and restricts access via Exchange Web Services for Exchange Online.

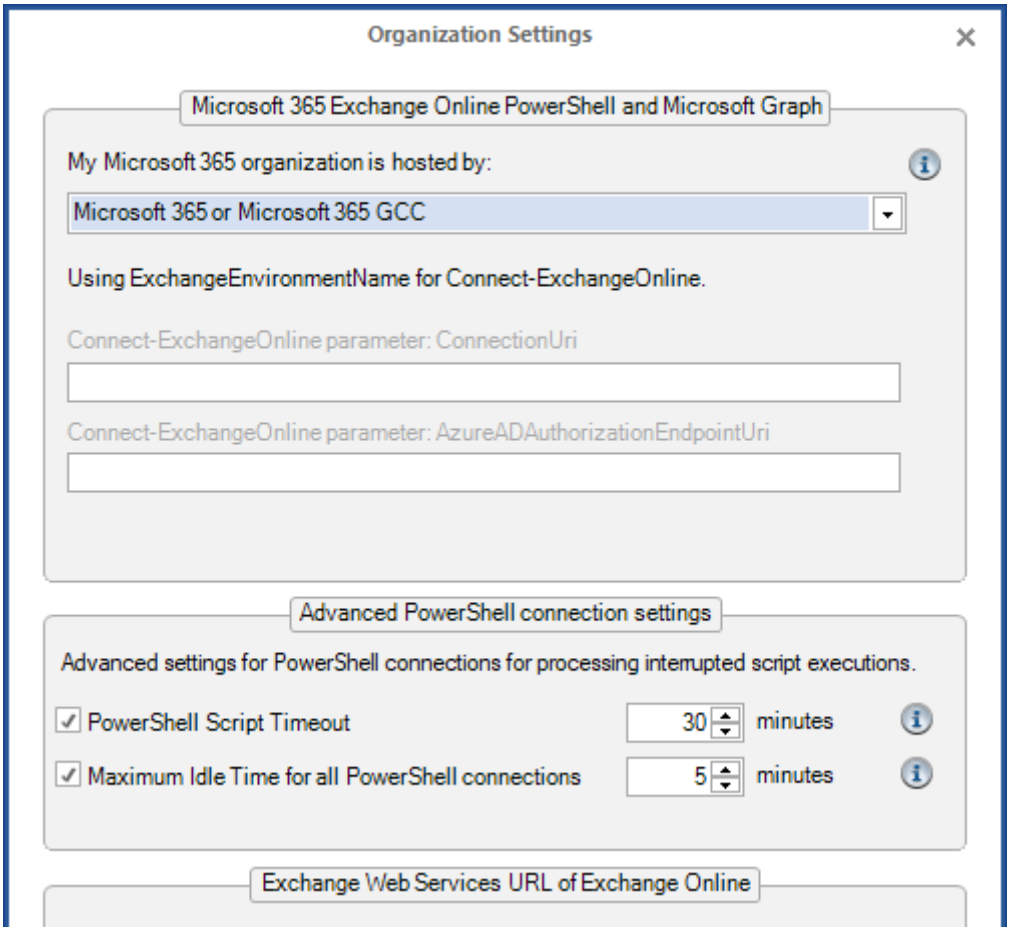
It is still possible to modify existing user-based accounts, but the switch to certificate-based authentication for access to Exchange Online mailboxes via Microsoft Graph will be required.

If you still have user-based accounts, you will find information on switching to certificate-based authentication in the chapter **How to switch from user-based authentication to certificate-based authentication** in the GALsync manual.
https://www.netsec.de/en/products/galsync/documentation.html

On the Exchange Online tab in the **Environment Configuration**, there is now only one available method to establish a connection to Exchange Online. Please use the certificate-based authentication via App registrations in Microsoft Entra ID.



3. The **Advanced PowerShell connection settings** have been added to the **Organization Settings** dialog on the Exchange Online tab of the Environment Configuration.



PowerShell Script Timeout

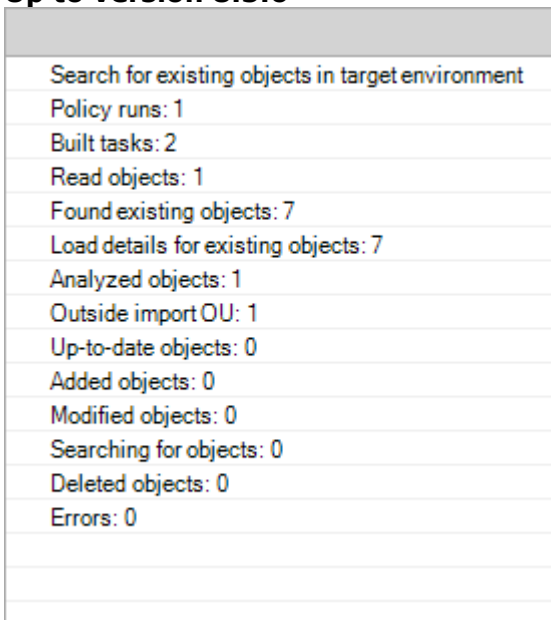
Time after which a PowerShell script execution will be canceled if there is no sign of life anymore for the running PowerShell script within this time.

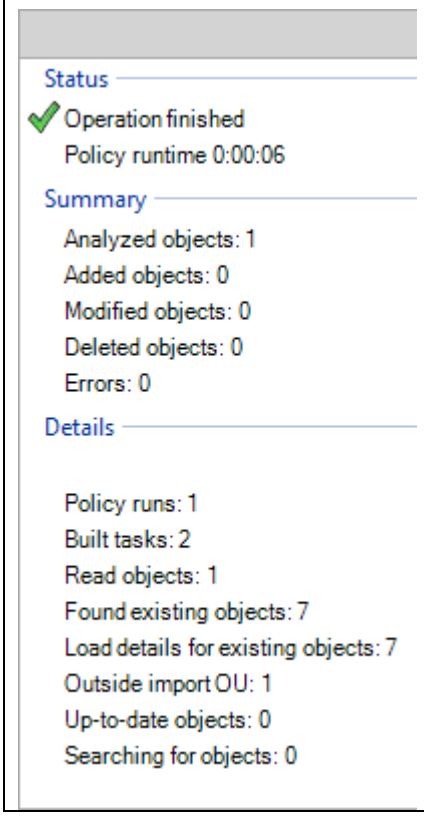
Maximum Idle Time for all PowerShell connections

Time after which the next PowerShell scripts, if available, should be executed from the queue, if none of the existing PowerShell connections have executed any scripts within the set time.

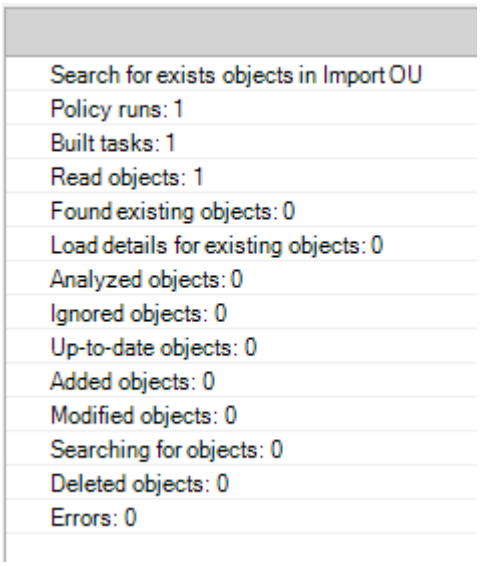
4. The counter at the import into on-premises is renamed from **Outside import OU** to **Ignored objects**. There are several reasons why an existing object is not synchronized.

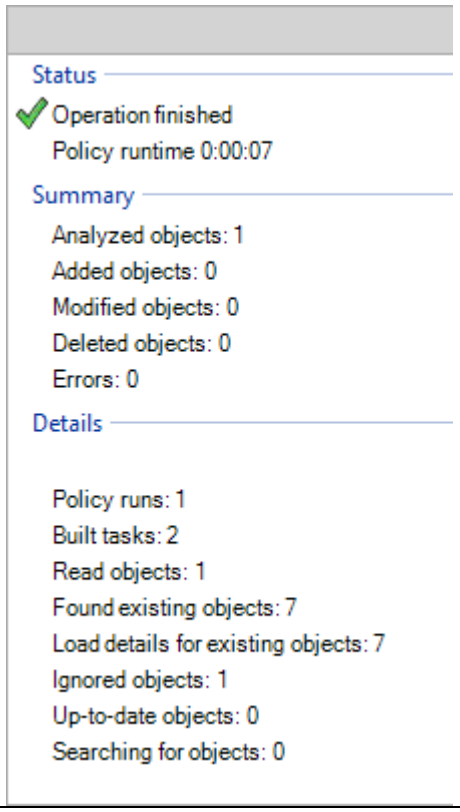
Up to version 8.5.6



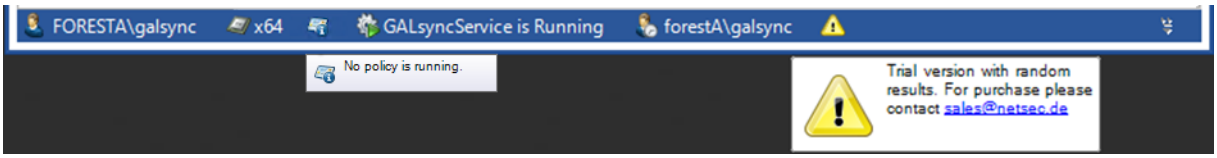


From to version 8.6.0

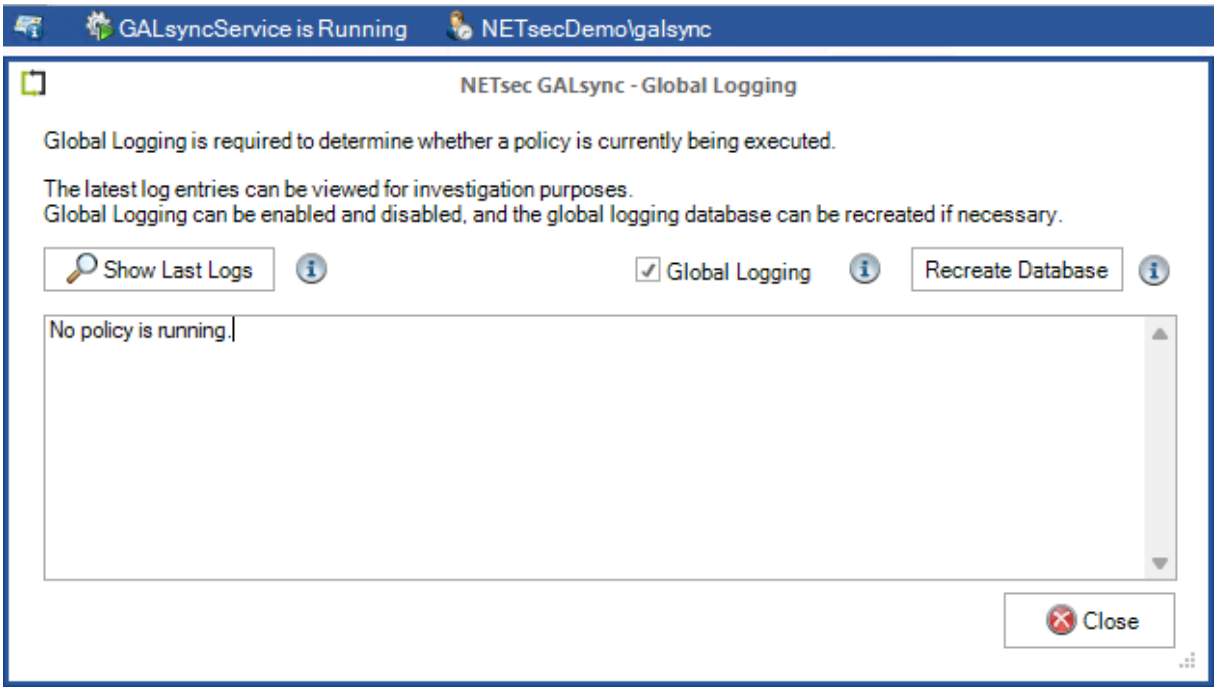




5. The information bar at the bottom of the GALsync window indicates whether a policy is being run.



Click on the policy icon to open the **Global Logging** dialog.



Show Last Logs

Show Last Logs displays the most recent log entries from Global Logging.

Global Logging

Global Logging can be enabled and disabled. When Global Logging is disabled, it is not possible to determine whether a policy is currently being executed.

Recreate Database

The database can be recreated if problems occur when displaying whether a policy is being executed.

GALsync version 8.5.6 or later compared with GALsync 8.5.5 and earlier

1. As of version 8.5.6, user-based authentication for applications no longer works.

For this reason, the option to create a new user-based credential account has been deactivated. Please note, Microsoft requires multifactor authentication for user-based accounts and restricts access via Exchange Web Services for Exchange Online.

It is still possible to modify existing user-based accounts, but the switch to certificate-based authentication for access to Exchange Online mailboxes via Microsoft Graph will be required.

If you still have user-based accounts, you will find information on switching to certificate-based authentication in the chapter **How to switch from user-based authentication to certificate-based authentication** in the GALsync manual.
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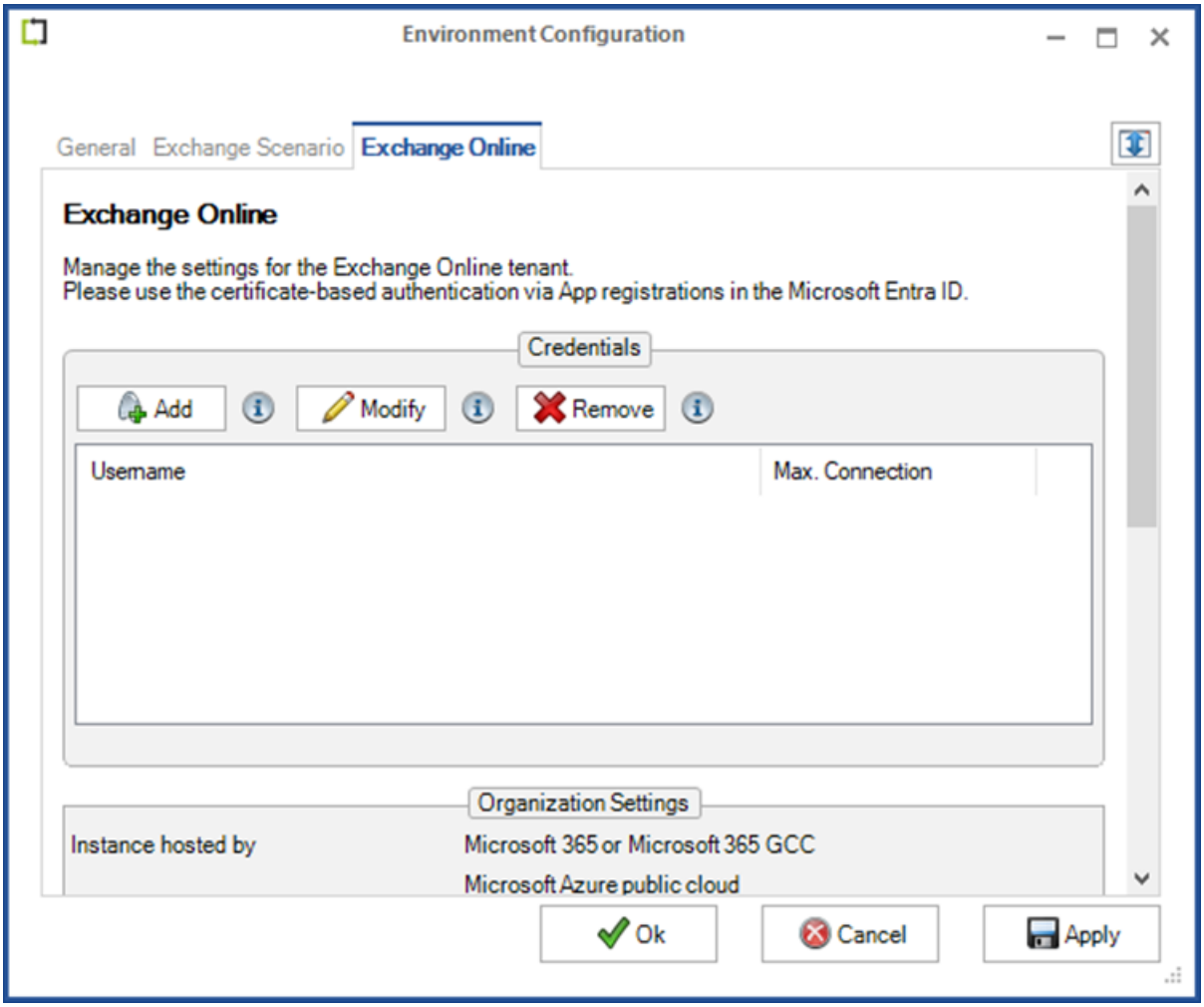


GALsync version 8.5 compared with GALsync 8.4.6

1. As of version 8.5, GALsync requires **.NET Framework 4.8**, **Windows PowerShell 5.1** and **ExchangeOnlineManagement PowerShell module version 3.6 or later** for **Exchange Online PowerShell V3**.

The **ExchangeOnlineManagement PowerShell module** needs to be installed or updated on the GALsync Server, so GALsync can directly communicate with a Microsoft 365 Exchange Online tenant.

Install ExchangeOnlineManagement PowerShell module

On the GALsync Server, open **Windows PowerShell** as **Administrator**, then run the following to install:

```
Install-Module -Name ExchangeOnlineManagement -Force
```

When prompted, enter **Y** for Yes then Return

Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter in the **Microsoft Docs: About the Exchange Online PowerShell module**

https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#install-the-exchange-online-powershell-module

Update ExchangeOnlineManagement PowerShell module

On the GALsync Server, open **Windows PowerShell** as **Administrator**, then run the following to update:

```
Update-Module -Name ExchangeOnlineManagement -Force
```

Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter in the **Microsoft Docs: About the Exchange Online PowerShell module**

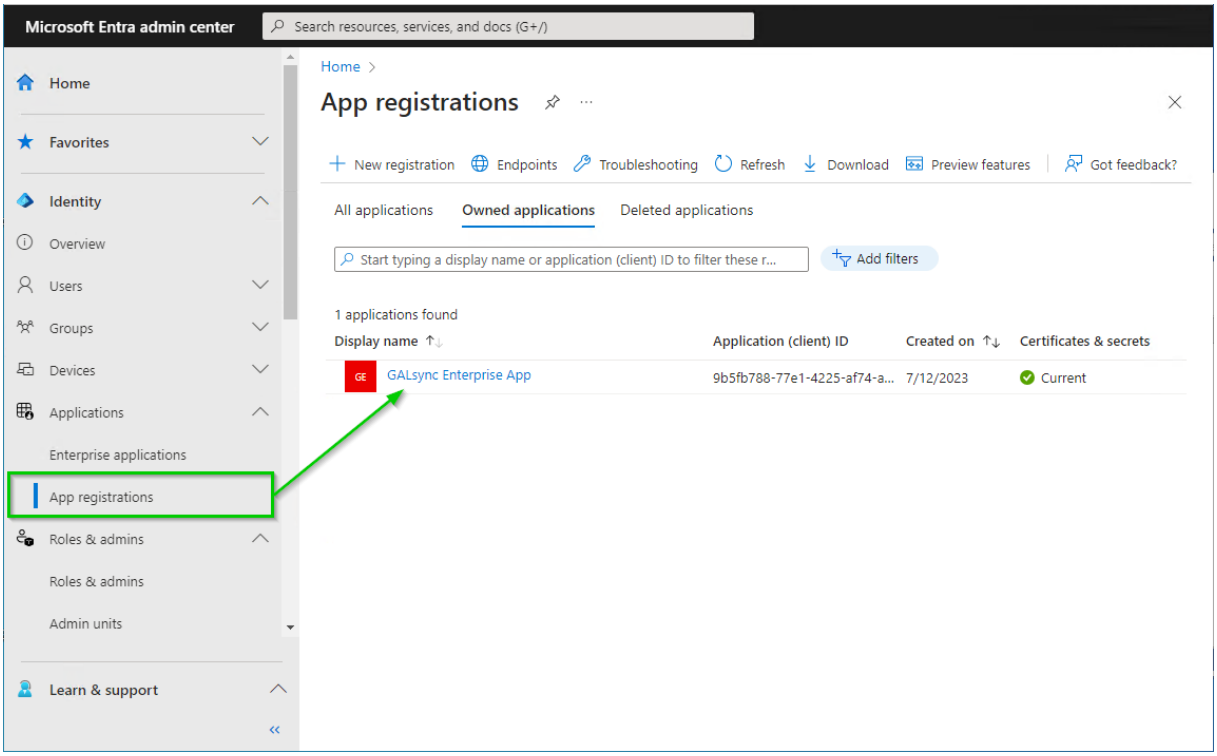
https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#update-the-exchange-online-powershell-module

2. As of version 8.5, GALsync supports **Microsoft Graph** to access mailboxes in Exchange Online.

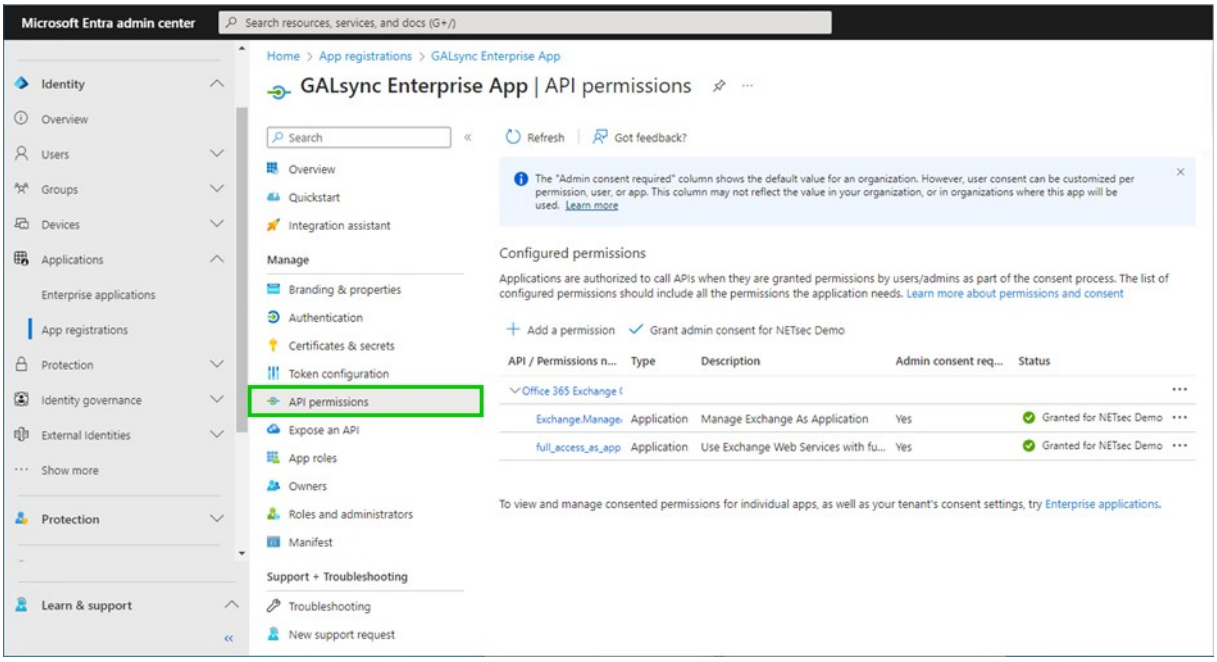
The following changes in the assigned API permissions of the App Registration in the **Microsoft Entra ID** are necessary to use Microsoft Graph to access mailboxes in Exchange Online.

The registered Application in App registrations

In the Microsoft Entra admin center menu, go to **Identity**, expand **Applications** and select **App registrations**.



Select the registered Application to see the **API permissions**.



The **Exchange.ManageAsApp** permission is also required to access Exchange Online mailboxes via **Microsoft Graph**.

API / Permissions name	Type	Description	Admin consent requ...	Status
Office 365 Exchange Online (2)				
Exchange.ManageAsApp	Application	Manage Exchange As Application	Yes	Granted for NETsec Demo
full_access_as_app	Application	Use Exchange Web Services with full access to all mailboxes	Yes	Granted for NETsec Demo

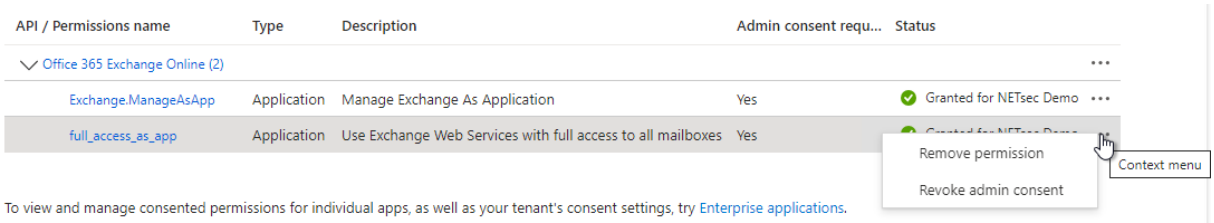
The **full_access_as_app** permission allows to access Exchange Online mailboxes via **Exchange Web Services** and is not needed to access Exchange Online mailboxes via **Microsoft Graph**.

Remove API permission for Exchange Web Services, if applicable

The **full_access_as_app** permission can be removed, except if you use contactSync policies, which are synchronizing contacts from a Public Folder which is located in Exchange Online, which at the moment need the **full_access_as_app** permission for Exchange Web Services.

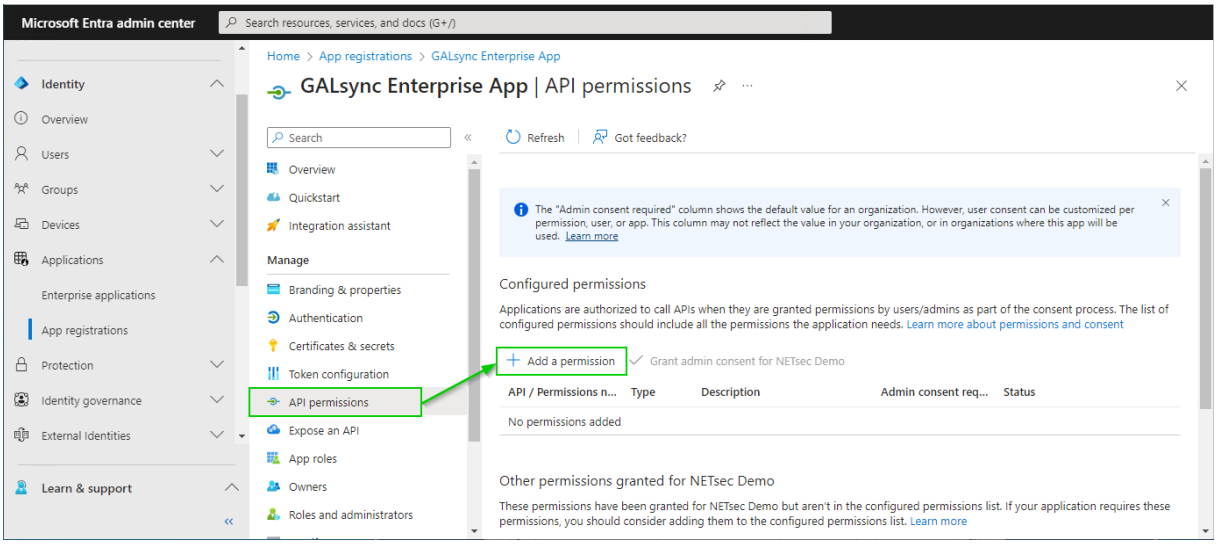
*Please note, if you also use **contactSync policies** in GALsync, it will be necessary to configure additional API permissions. Please take a look at the **Assign API permissions to the registered Application** chapter in the **contactSync manual**.*

If the **full_access_as_app** permission is not needed anymore, it is necessary to **Revoke admin consent** first and then to **Remove permission** at the context menu of the permission entry.

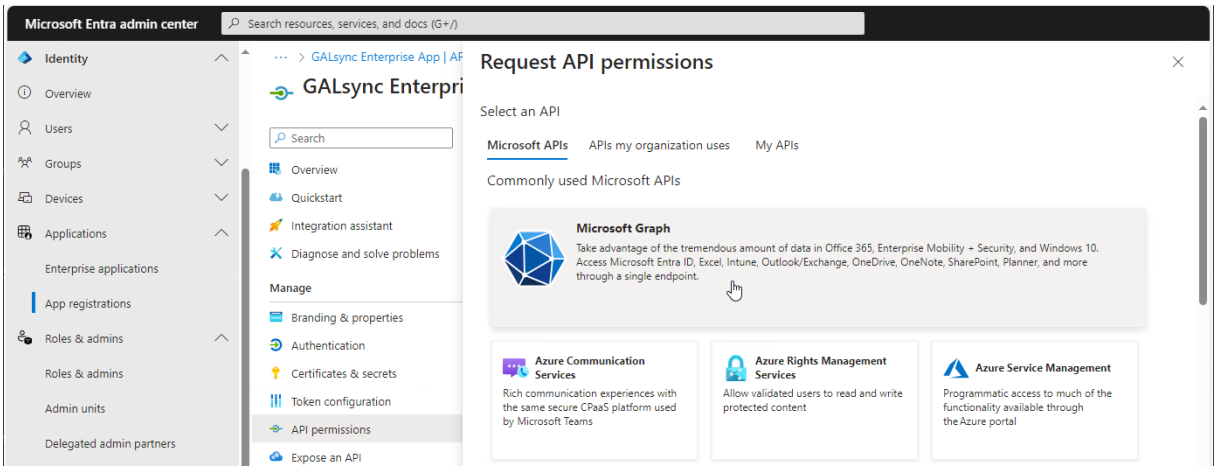


API permissions for Microsoft Graph

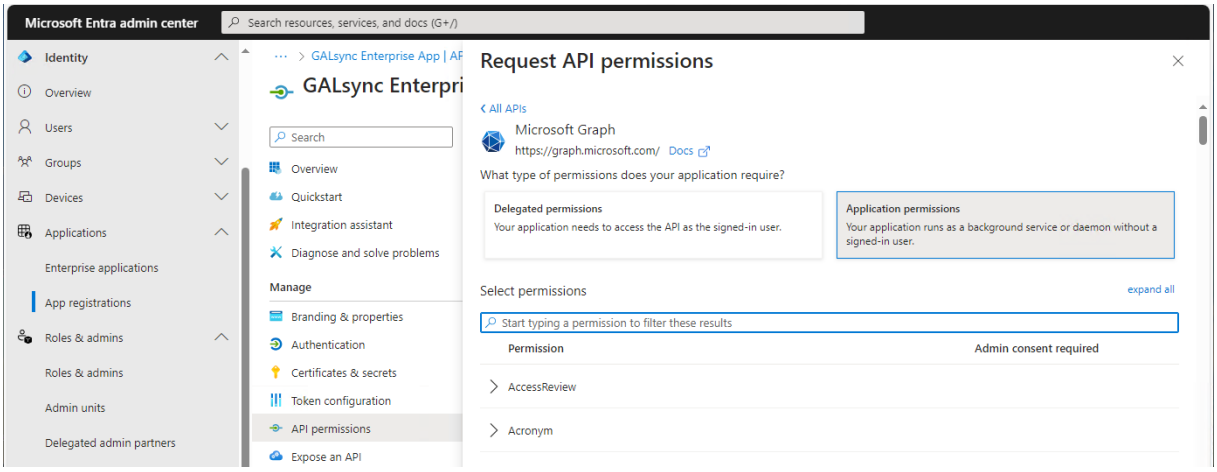
Go to **API permissions**, then select **Add a permission**



Select the **Microsoft APIs** and click on **Microsoft Graph**

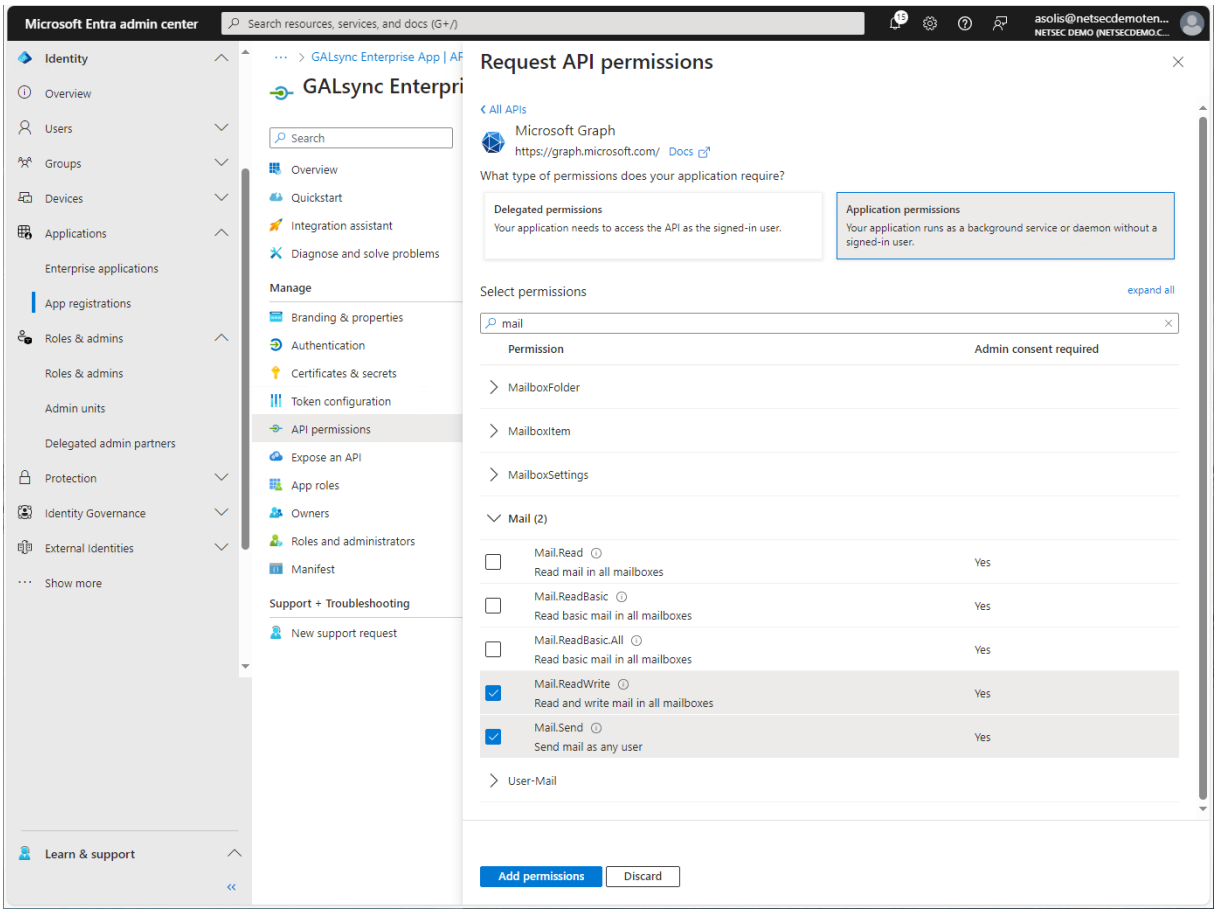


Select **Application permissions**



Search for **mail** and expand the **Mail** in the result list.

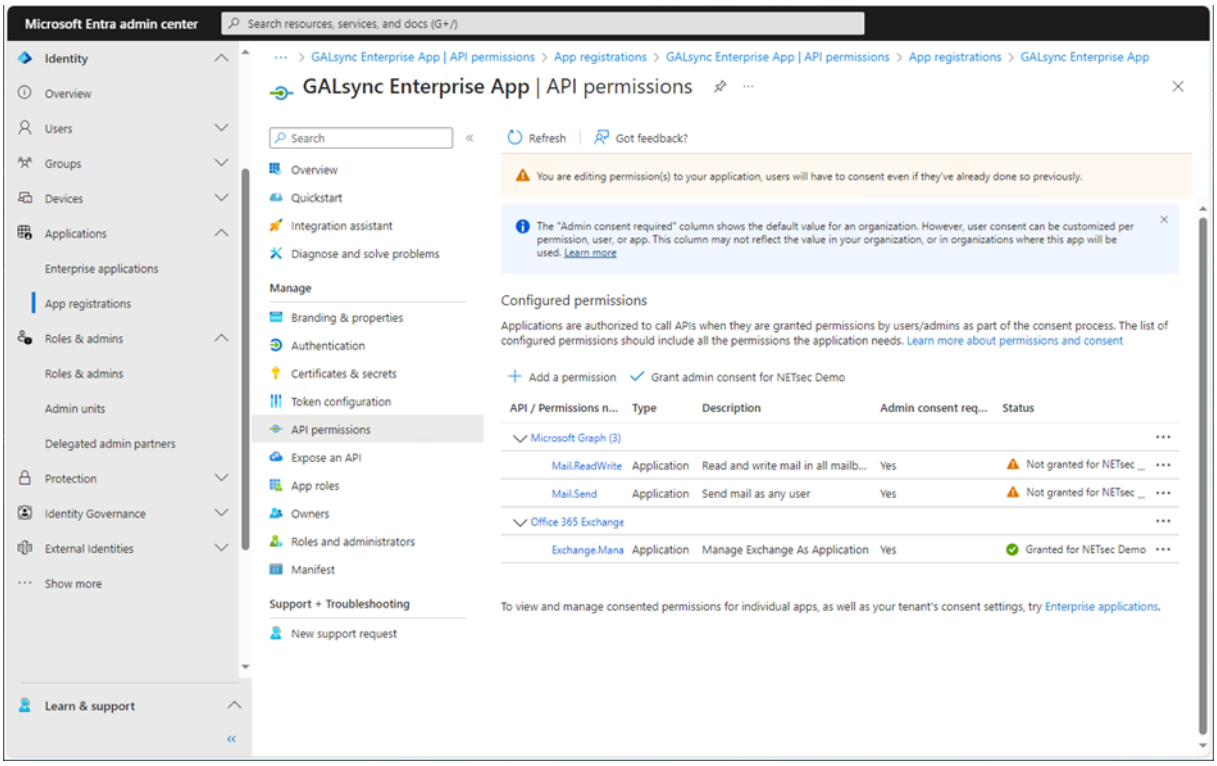
Select
Mail.ReadWrite
and
Mail.Send



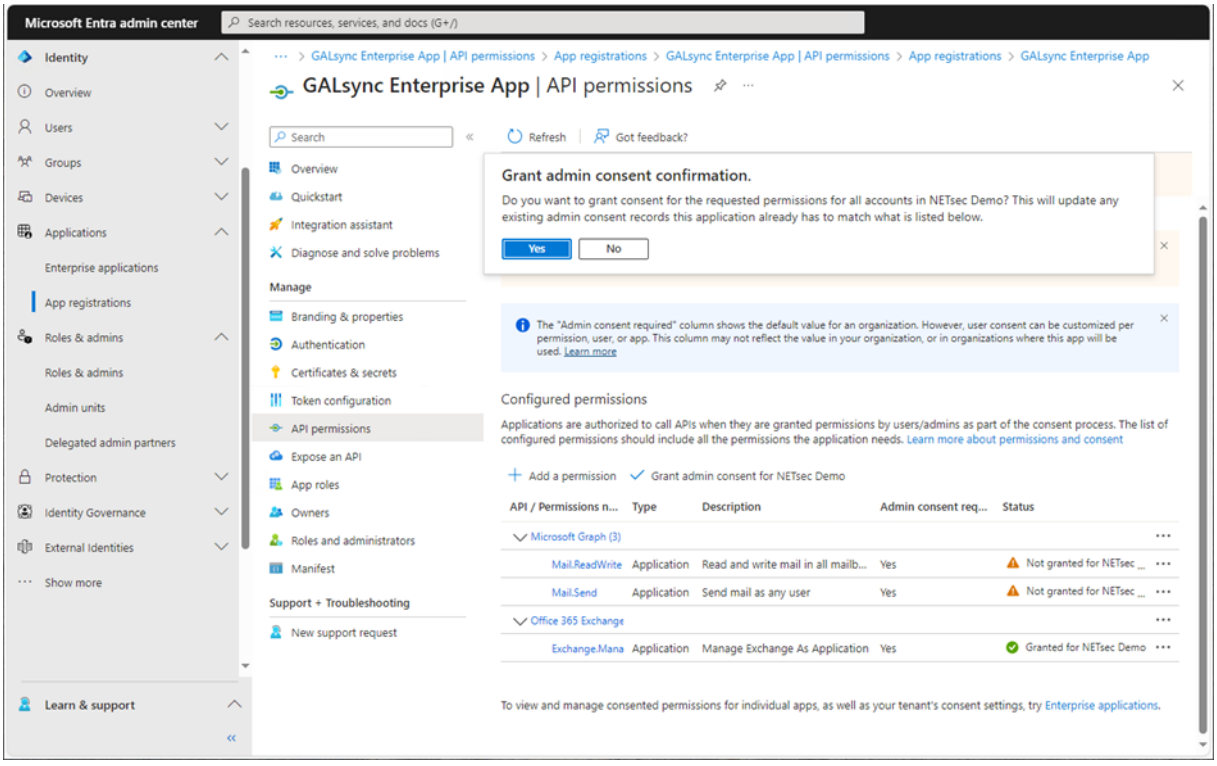
*Please note, if you also use **contactSync policies** in GALsync, it will be necessary to configure additional API permissions. Please take a look at the **Assign API permissions to the registered Application** chapter in the **contactSync manual**.*

Click **Add permissions**

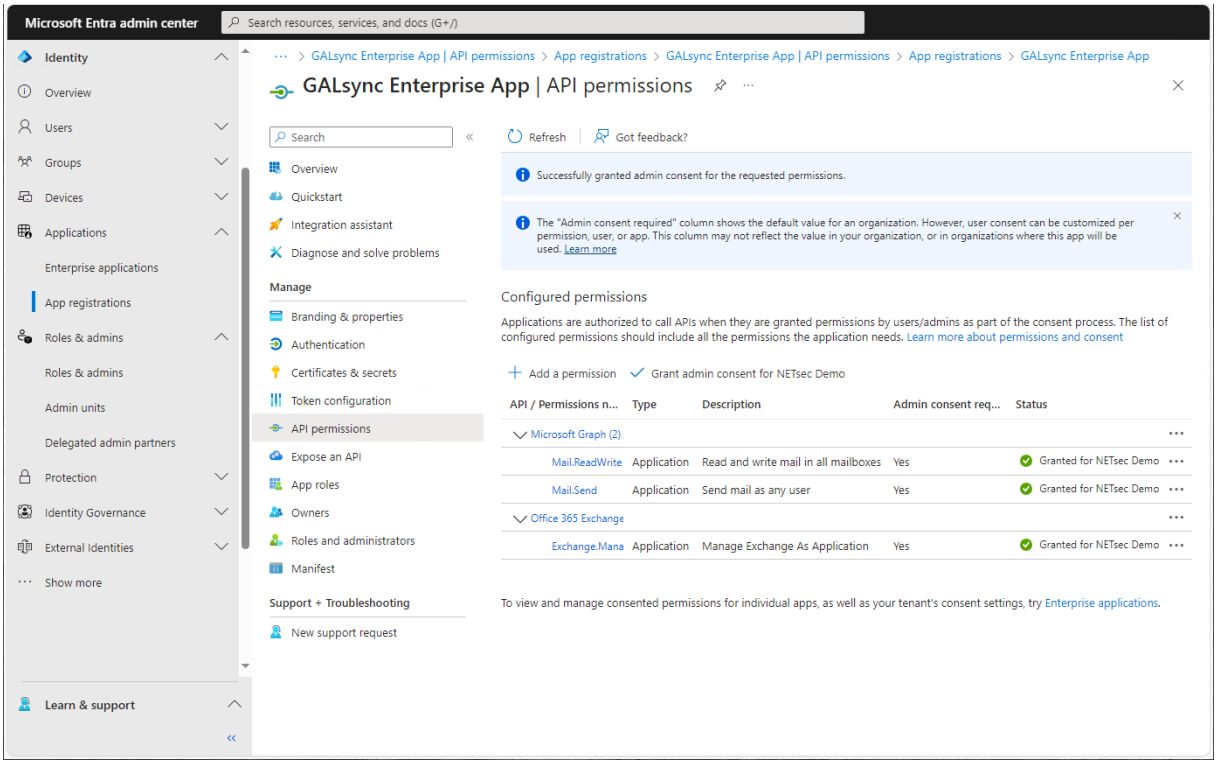
Click **Grant admin consent for** your tenant.



Click **Yes** to confirm the consent.

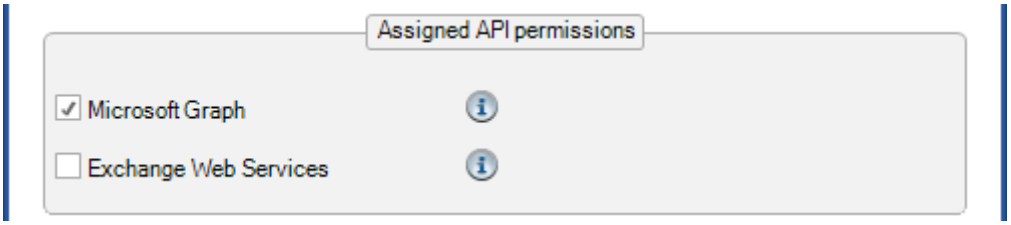


API permissions are assigned to the registered Application.

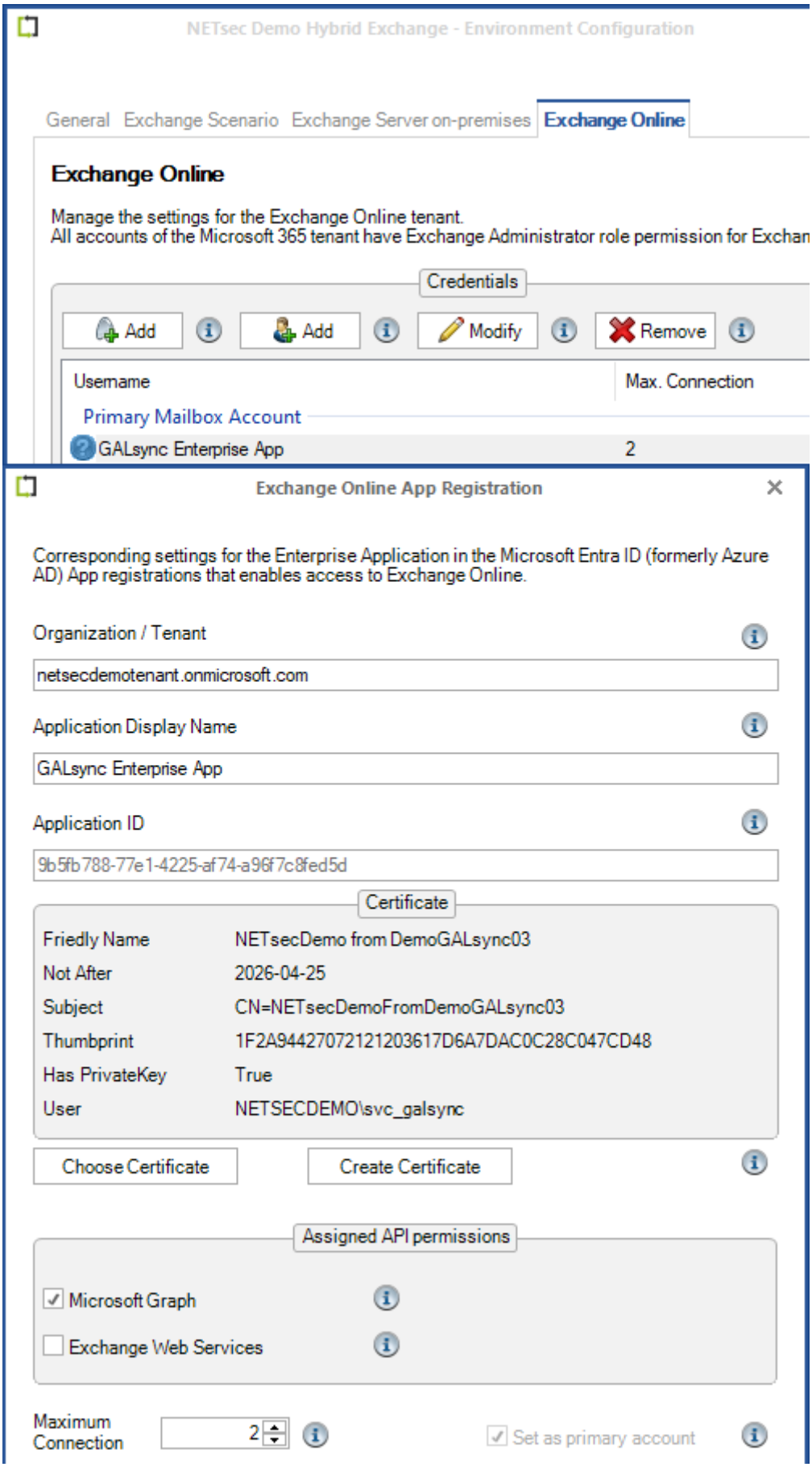


Update the Environment Configuration in GALsync

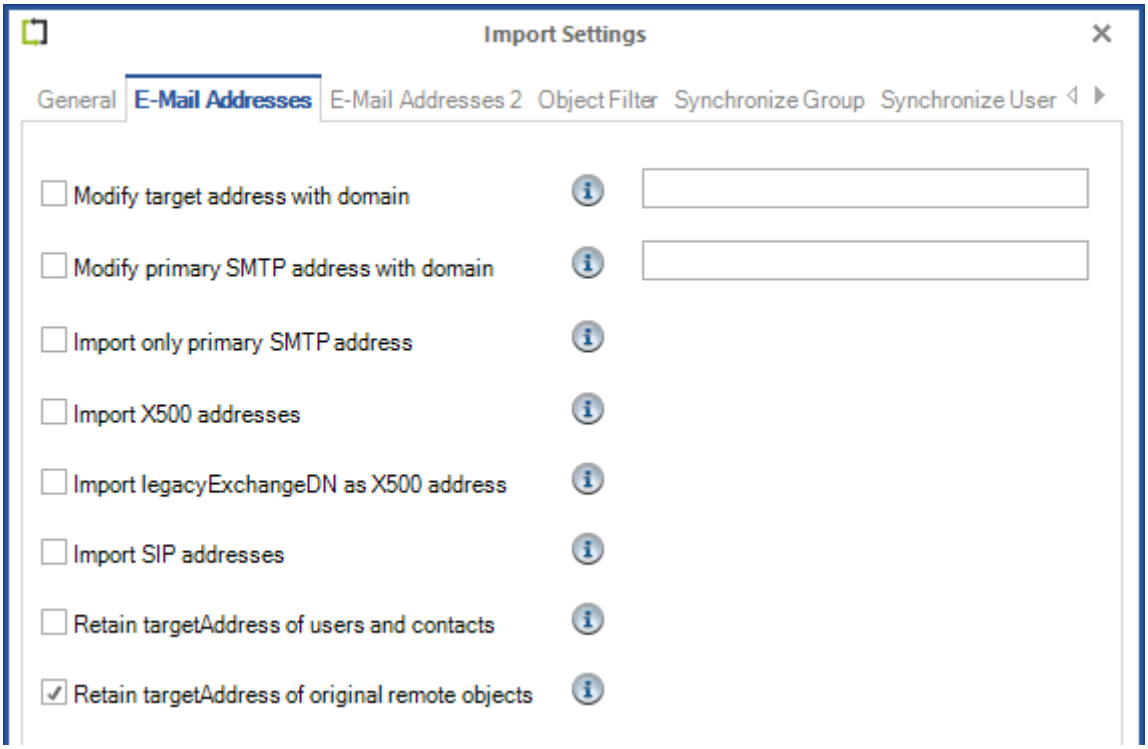
Accordingly, select **Microsoft Graph** at the **Assigned API permissions** group box in the **Exchange Online App Registration** dialog and uncheck the **Exchange Web Services**, if you have removed the **full_access_as_app** permission.



*Please note, if you also use **contactSync policies** in GALsync, it will be necessary to configure additional API permissions. Please take a look at the **Assign API permissions to the registered Application** chapter in the **contactSync manual**.*


NETsec Demo Hybrid Exchange - Environment Configuration
General
Exchange Scenario
Exchange Server on-premises
Exchange Online
Exchange Online
Manage the settings for the Exchange Online tenant.
All accounts of the Microsoft 365 tenant have Exchange Administrator role permission for Exchan
Credentials
Add
Add
Modify
Remove
Username
Max. Connection
Primary Mailbox Account
GALsync Enterprise App
2
Exchange Online App Registration
Corresponding settings for the Enterprise Application in the Microsoft Entra ID (formerly Azure AD) App registrations that enables access to Exchange Online.
Organization / Tenant
netsecdemotenant.onmicrosoft.com
Application Display Name
GALsync Enterprise App
Application ID
9b5fb788-77e1-4225-af74-a96f7c8fed5d
Certificate
Friedly Name
NETsecDemo from DemoGALsync03
Not After
2026-04-25
Subject
CN=NETsecDemoFromDemoGALsync03
Thumbprint
1F2A94427072121203617D6A7DAC0C28C047CD48
Has PrivateKey
True
User
NETSECDEMO\svc_galsync
Choose Certificate
Create Certificate
Assigned API permissions
Microsoft Graph
Exchange Web Services
Maximum Connection
2
Set as primary account

3. As of version 8.5, the new option **Retain targetAddress for original remote objects** on the **E-Mail Addresses** tab in the **Import Settings** is enabled for newly created import policies by default.



GALsync exports the values found in the **proxyAddresses** attribute as well as the value of the **targetAddress** attribute.

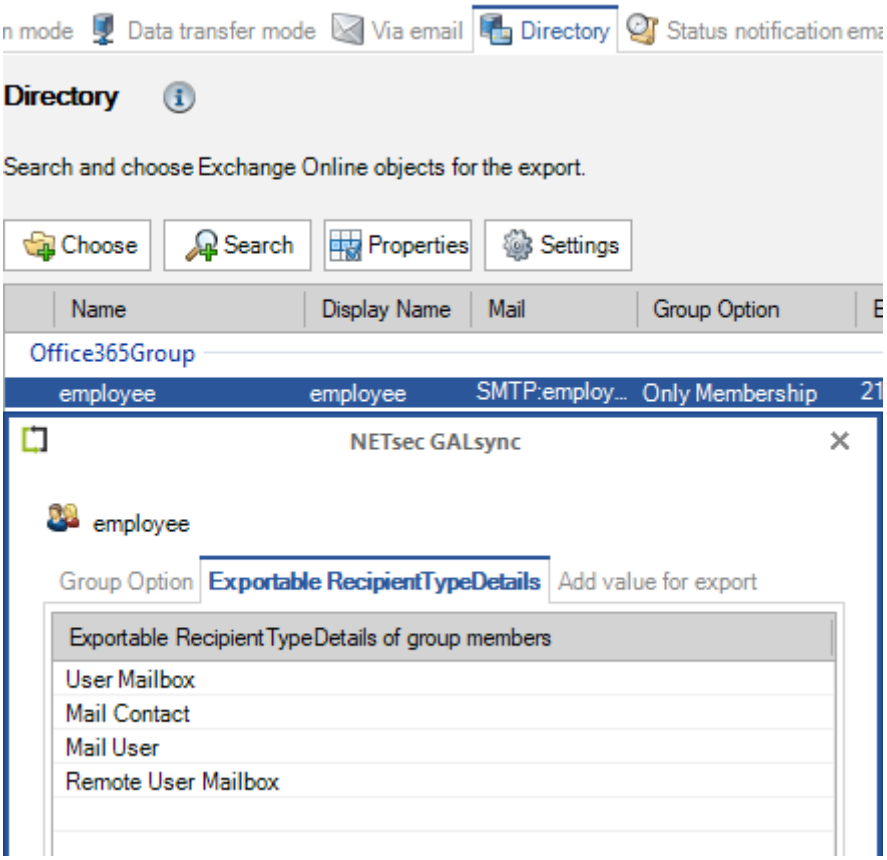
By default, during import the **targetAddress** of mailbox-users, mail-users and contacts is stamped with the value of the source primary SMTP address value.

If the **Retain targetAddress of original remote objects** option is selected, the **targetAddress** is retained while importing an object that has a remote **RecipientTypeDetails** value, e.g. *RemoteUserMailbox*, in the RecipientTypeDetails tag or in the original RecipientTypeDetails tag of the data file object.

This is useful for obtaining free/busy information between Exchange environments, e.g. when a hybrid Exchange environment is involved.

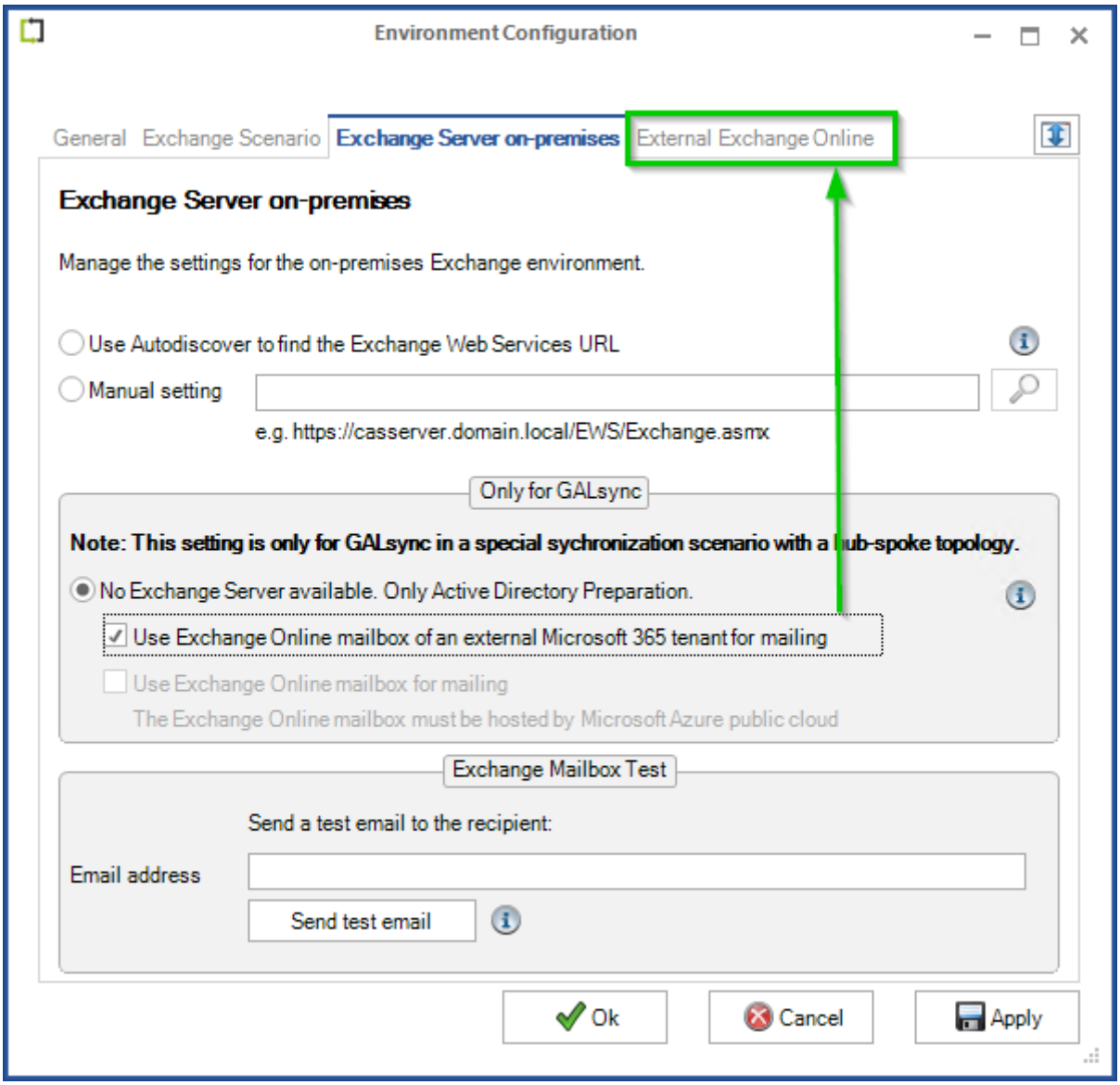
4. The behavior when exporting members of a selected group for policies, that export from Exchange Online, has been adapted to the behavior when exporting from on-premises.

The members of a group selected in the policy are resolved, even if a **RecipientTypeDetails** for exporting the group is missing from the **Exportable RecipientTypeDetails** list of the selected group.



GALsync version 8.4.6 and later compared with GALsync 8.4.5 and earlier

1. In an on-premises Exchange scenario that only has Active Directory Preparation but no Exchange Server, it is now possible to connect to the Exchange Online mailbox of an external Microsoft 365 tenant using certificate-based authentication.



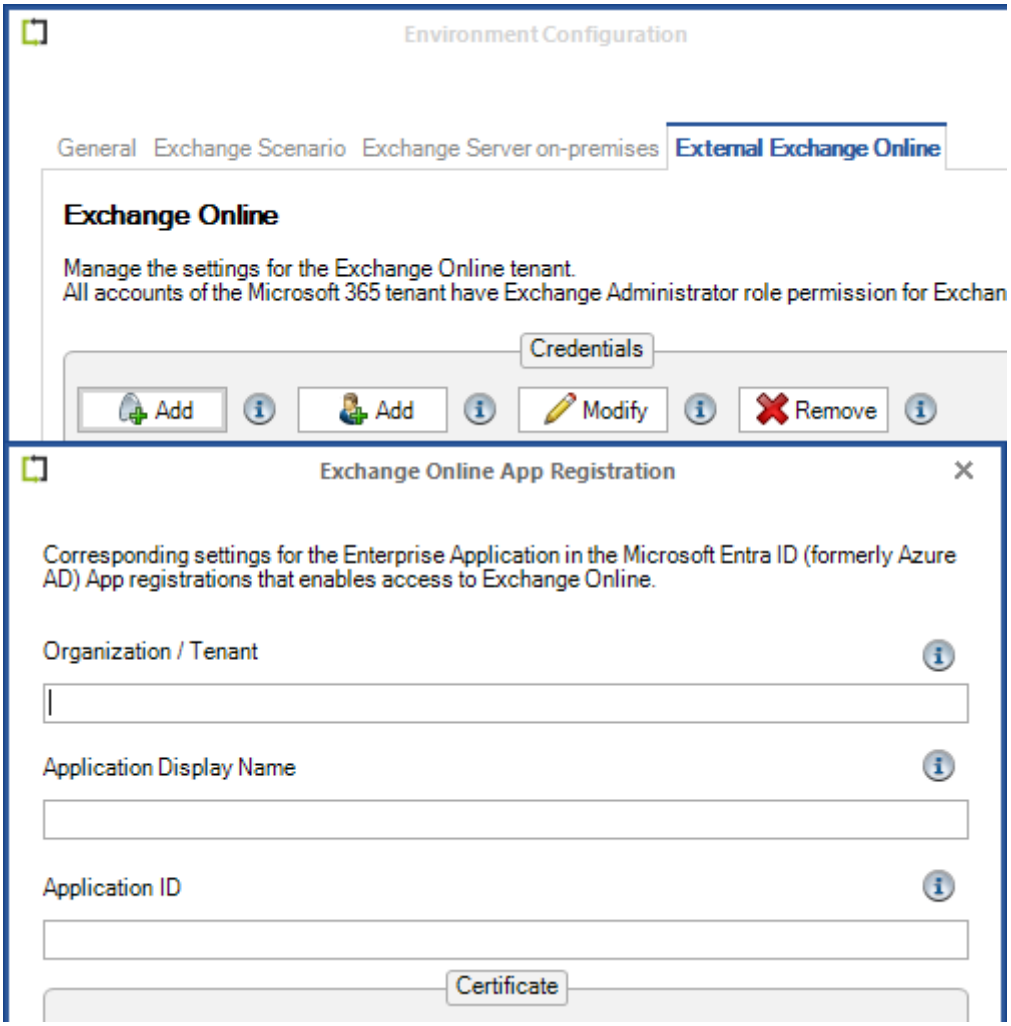
This setting is only for GALsync in a special synchronization scenario with a hub-spoke topology.

The **External Exchange Online** tab will be visible. It is possible to use certificate-based authentication via AppRegistration for the external Exchange Online mailbox.

Please take a look at the **Use Exchange Online mailbox of an external Microsoft 365 tenant for mailing** chapter in the GALsync manual for a complete description of how it's configured.

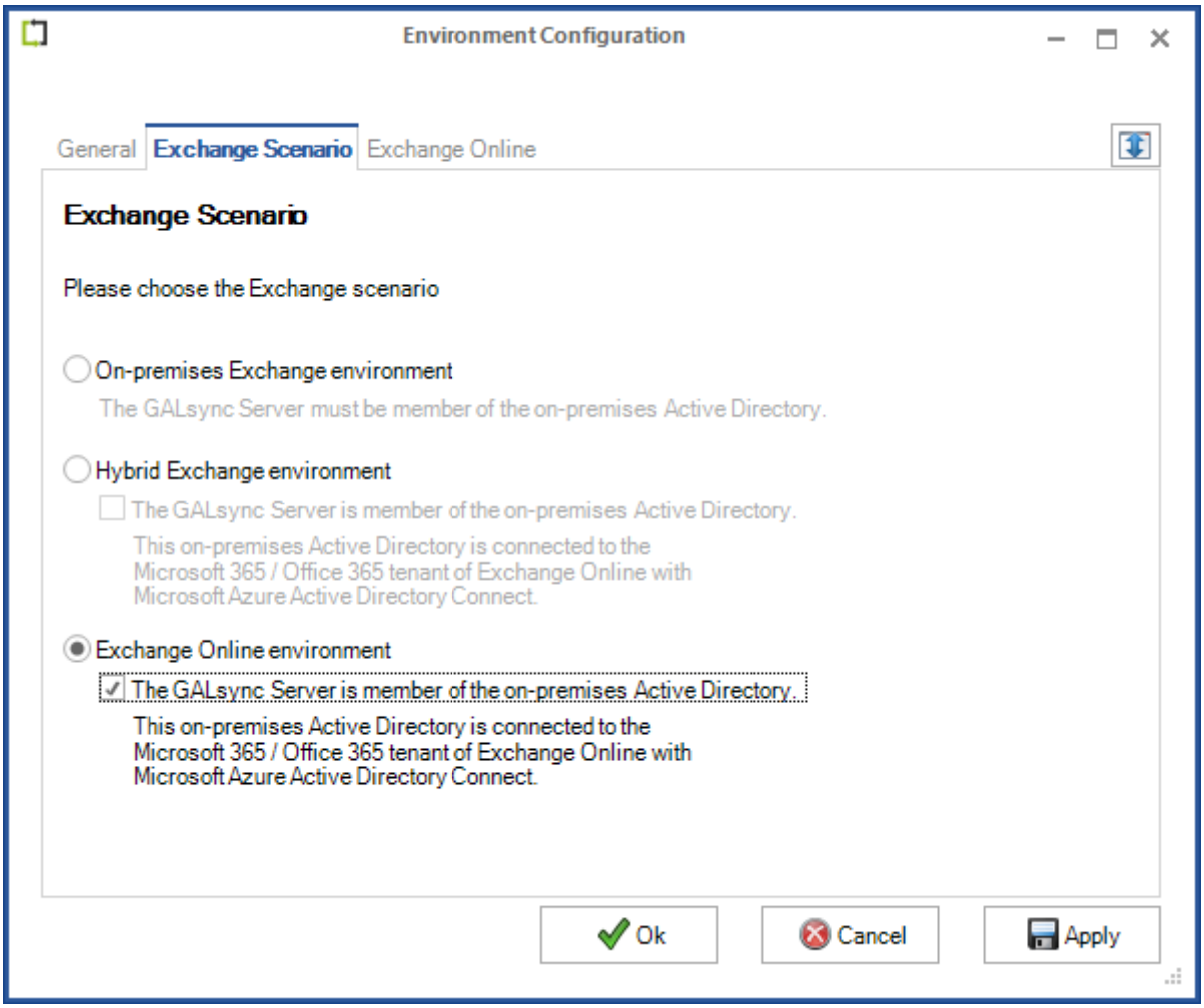
The settings on the **External Exchange Online** tab are the same as the default Exchange Online tab of a Hybrid Exchange environment or an Exchange Online environment.

The **Add** button on the left will open a dialog window in which to configure **certificate-based authentication** via **App registration** for the Exchange Online tenant.



Please take a look at the **Use Exchange Online mailbox of an external Microsoft 365 tenant for mailing** chapter in the GALsync manual for a complete description of how it's configured.

2. It's now possible to synchronize with on-premises Active Directory in an Exchange Online scenario with a connected on-premises Active Directory, which has Active Directory Preparation in which the Active Directory Schema has extended Exchange properties and where the GALsync Server is member of.



Migrate an existing on-premises policy created by GALsync version 7 or earlier versions

It is now possible to migrate an existing on-premises policy created by GALsync version 7 or earlier versions, to such an Environment Configuration.

Create new policies to synchronize with on-premises

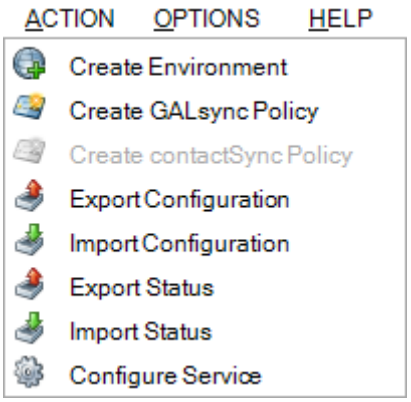
It is now possible to create new policies to synchronize with the on-premises Active Directory for such Environment Configuration.

GALsync version 8.4.3 and later compared with GALsync 8.4.2 and earlier

1. Please backup the GALsync configuration of the earlier version than 8.4.3, before you install the latest one. The selection of mailboxes in contactSync policies will be automatically migrated to better support a hybrid Exchange environment.

Select **Action** -> **Export Configuration** to compress your Environment Configuration and Policy configuration to a zip file.

Select **Action** -> **Export Status** to compress your log files to a zip file.

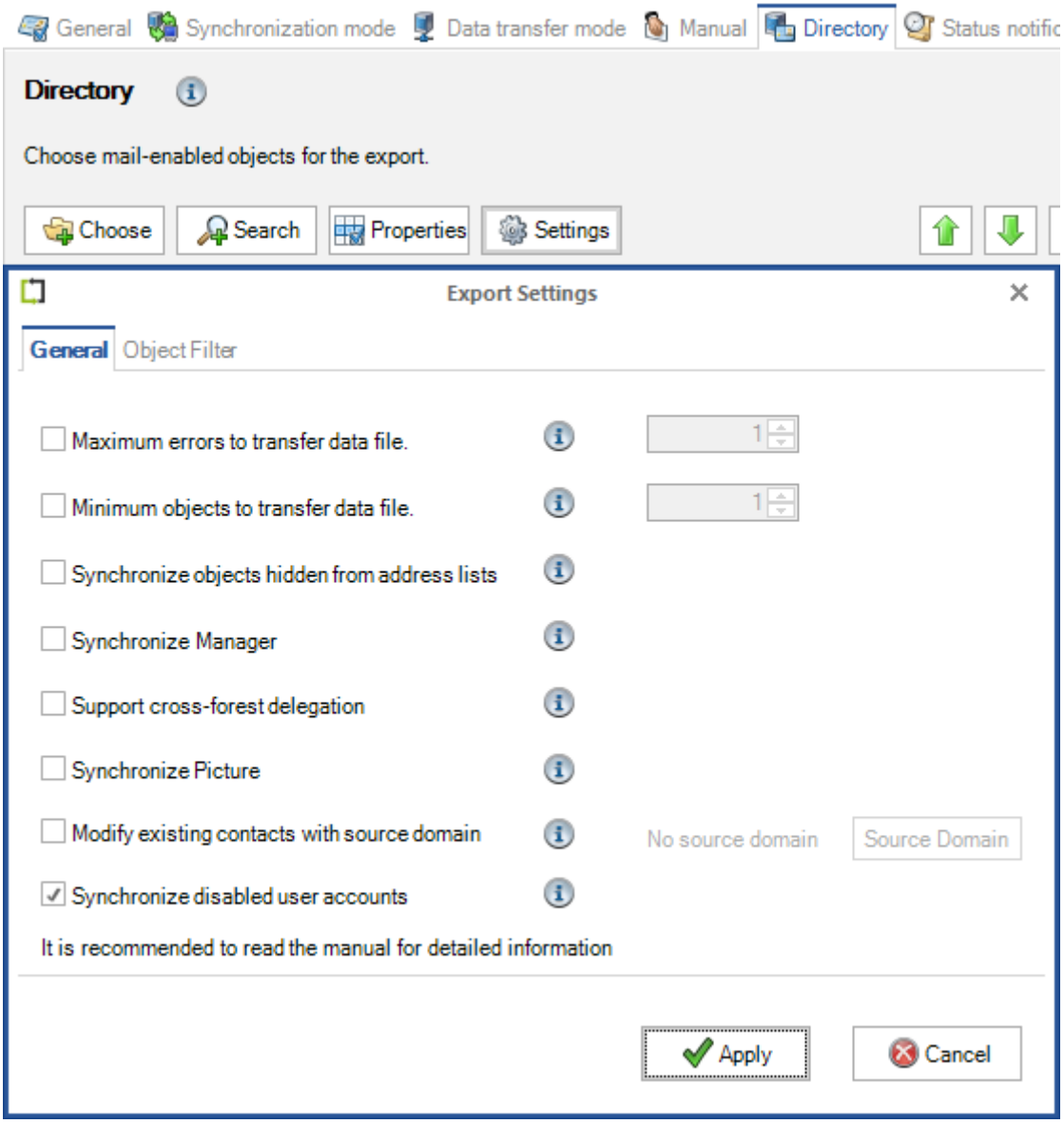


2. Please note, during the first **contactSync policy** run after upgrading GALsync from an earlier version than 8.4.0, it may update all previously synchronized contacts in the mailboxes.

3. As of version 8.4.2, user account objects that are disabled are no longer exported from on-premises Active Directory by default.

Enable the **Synchronize disabled user accounts** option on the **General** tab of the **Export Settings** to also export disabled user objects from on-premises.

In the event of an upgrade from a GALsync version 8.4.1 or earlier versions to a current GALsync version, the **Synchronize disabled user accounts** option is enabled in the existing policies.



4. As of version 8.4.3, it is possible to assign the **Exchange Recipient Administrator role** for Exchange Online instead of the **Exchange Administrator role** to the App Registration.

Please also take a look at the **Exchange Online certificate-based authentication via App Registration** chapter in the GALsync manual for the complete description of how to configure an App Registration. In the following, only the part **Exchange Administrator role for the registered Application** is replaced in order to be able to use the Exchange Recipient Administrator role for Exchange Online.

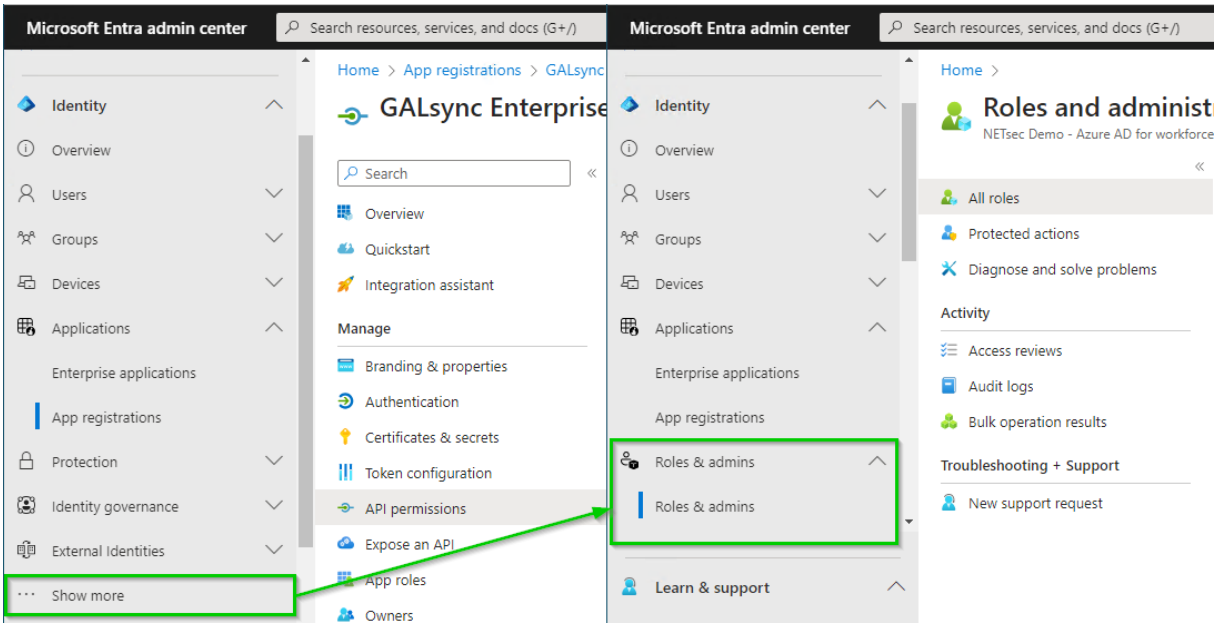
Exchange Administrator role or Exchange Recipient Administrator role for the registered Application (App Registration)

The **Exchange Recipient Administrator role** or the **Exchange Administrator role** for Exchange Online is necessary because GALsync communicates via the **Exchange Online PowerShell** with the Microsoft 365 tenant.

Please note that the Exchange Recipient Administrator role for Exchange Online has restrictions, e.g. it is not possible to check whether application access policies exist for the registered application (App Registration).

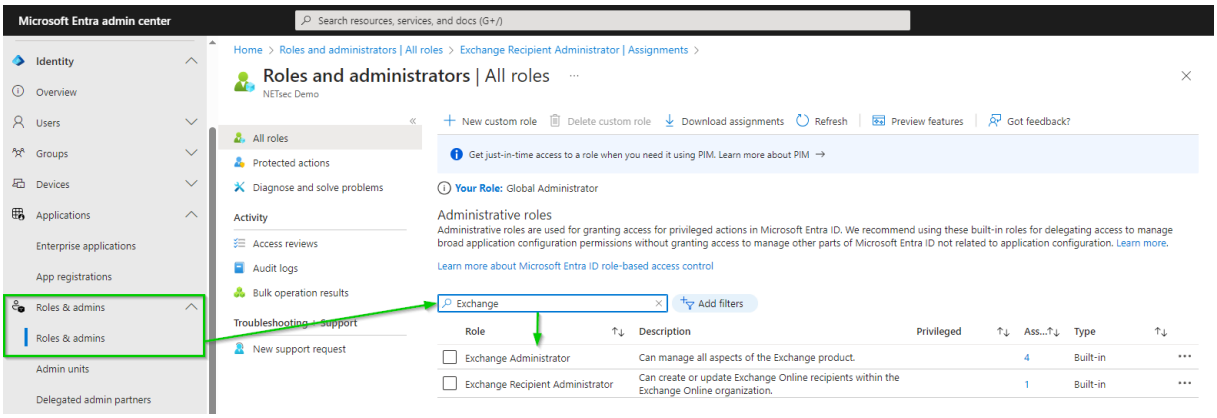
It may be that the Exchange Administrator role must be assigned to the registered application (App Registration) in the event of problems.

The application requires **Exchange Recipient Administrator role** or the **Exchange Administrator role** in the Microsoft 365 tenant, otherwise GALsync will not have access to the complete set of Exchange Online PowerShell cmdlets which are needed to function properly.



Expand **Roles & admins**. If you do not see **Roles & admins** in the **Identity** menu, click **Show more ...** .

Go to **Roles & admins** in the expanded **Roles & admins** menu and search for **Exchange**.



The result is **Exchange Administrator** and **Exchange Recipient Administrator**.

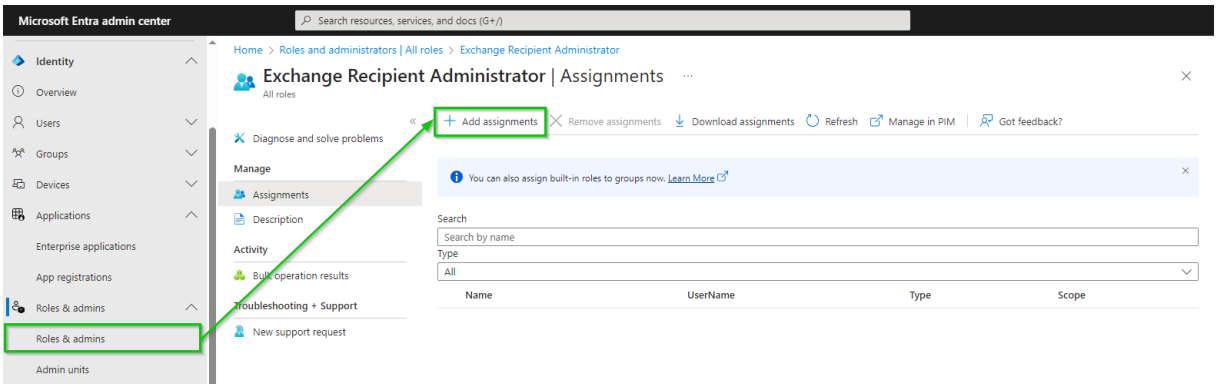
Decide which of the two roles should be assigned to the App Registration.

Please note that the Exchange Recipient Administrator role for Exchange Online has restrictions, e.g. it is not possible to check whether application access policies exist for the registered application (App Registration).

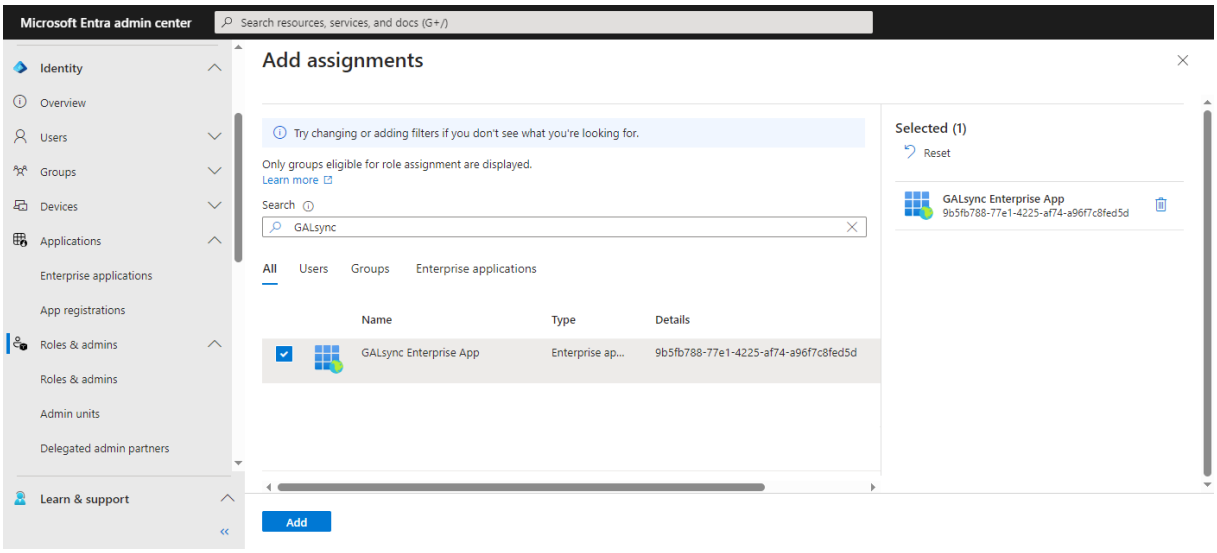
It may be that the Exchange Administrator role must be assigned to the registered application (App Registration) in the event of problems.

For example, the **Exchange Recipient Administrator** for Exchange Online.

Click on the **Exchange Recipient Administrator** in the result list to open the Exchange Recipient Administrator role.

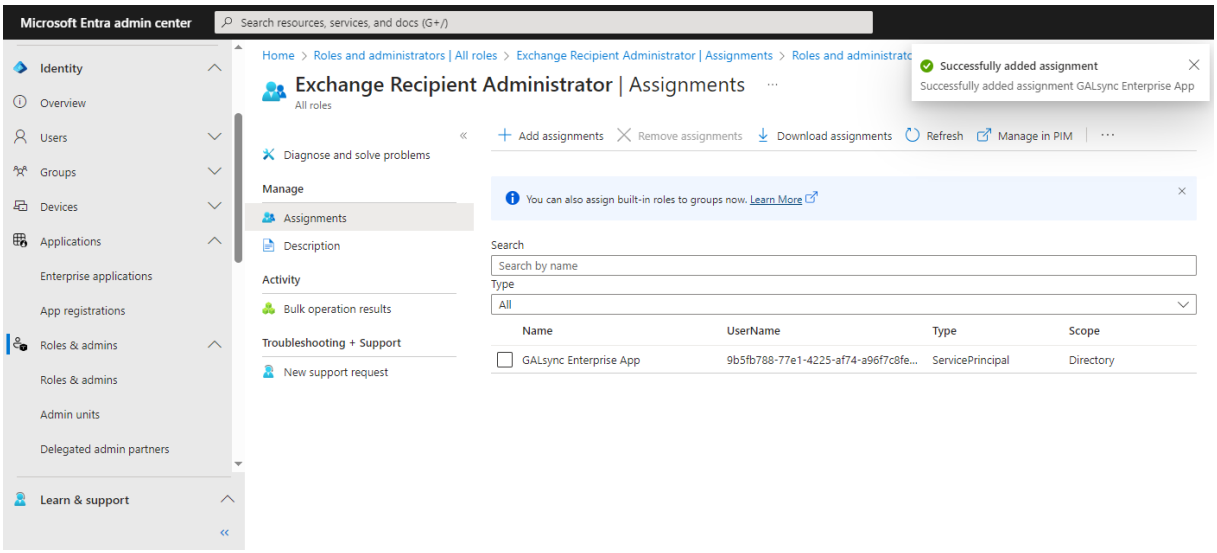


Click **Add assignments**, then search for the registered application.



Select the registered application and click **Add**.

The application has been assigned the **Exchange Recipient Administrator role**.



GALsync version 8.4 compared with GALsync 8.3.x

1. As of version 8.4, GALsync requires **.NET Framework 4.8**, **Windows PowerShell 5.1** and **ExchangeOnlineManagement PowerShell module version 3.4 or later** for **Exchange Online PowerShell V3**.

The **ExchangeOnlineManagement PowerShell module** needs to be installed or updated on the GALsync Server, so GALsync can directly communicate with a Microsoft 365 Exchange Online tenant.

Install ExchangeOnlineManagement PowerShell module

On the GALsync Server, open **Windows PowerShell** as **Administrator**, then run the following to install:

```
Install-Module -Name ExchangeOnlineManagement -Force
```

When prompted, enter **Y** for Yes then Return

Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter in the **Microsoft Docs: About the Exchange Online PowerShell module**

https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#install-the-exchange-online-powershell-module

Update ExchangeOnlineManagement PowerShell module

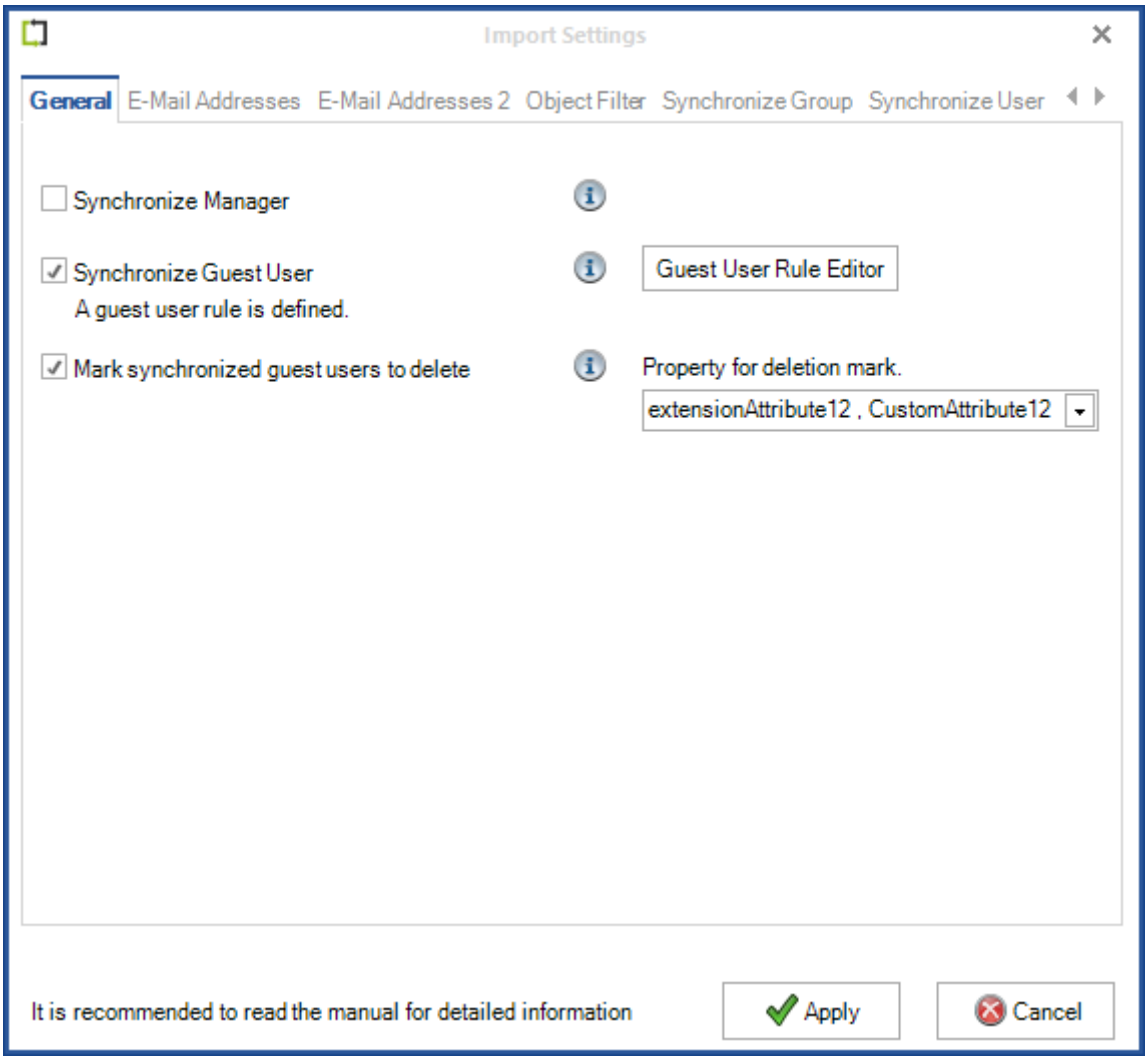
On the GALsync Server, open **Windows PowerShell** as **Administrator**, then run the following to update:

```
Update-Module -Name ExchangeOnlineManagement -Force
```

Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter in the **Microsoft Docs: About the Exchange Online PowerShell module**

https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#update-the-exchange-online-powershell-module

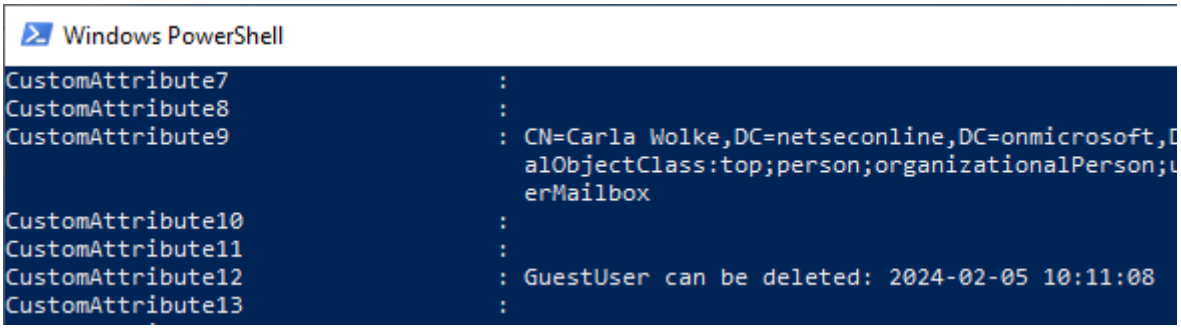
2. The **General** tab of the **Import Settings** for an Exchange Online policy has an additional option **Mark synchronized guest users to delete**.



In addition, the **Mark synchronized guest users to delete** option can be enabled and configured, if the **Synchronize Guest User** option is enabled.

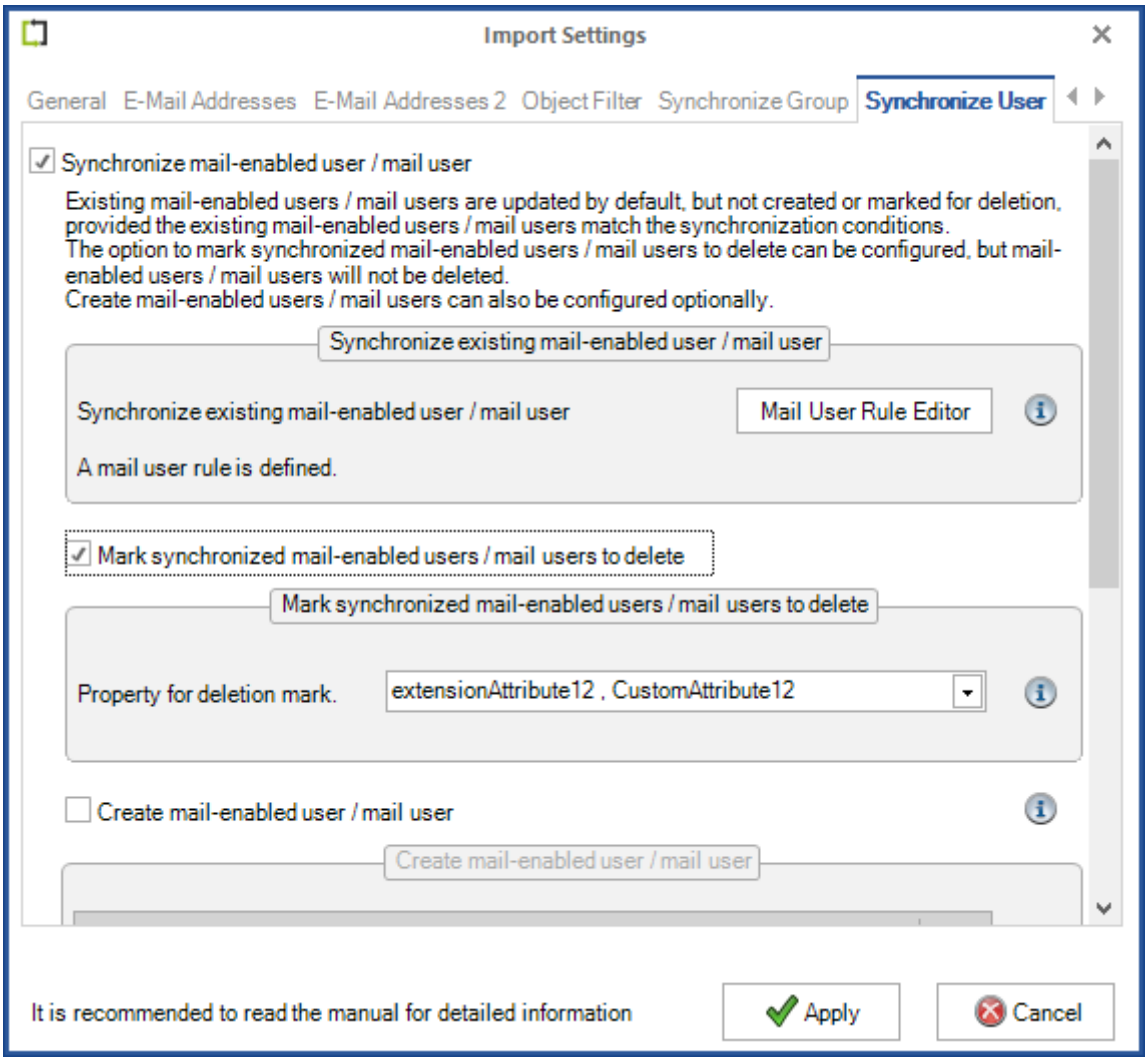
One of the CustomAttribute 1-15 can be selected, where GALsync will write the value, which starts with **GuestUser can be deleted** …

The screenshot below displays an example of CustomAttribute12 of an existing Guest User:



Please note that guest users will not be deleted by GALsync.

It is recommended to use the same **CustomAttribute / extensionAttribute** for **Mark synchronized guest users to delete** as configured for the option **Mark synchronized mail-enabled users / mail users to delete**, if the option is enabled on the **Synchronize user** tab.

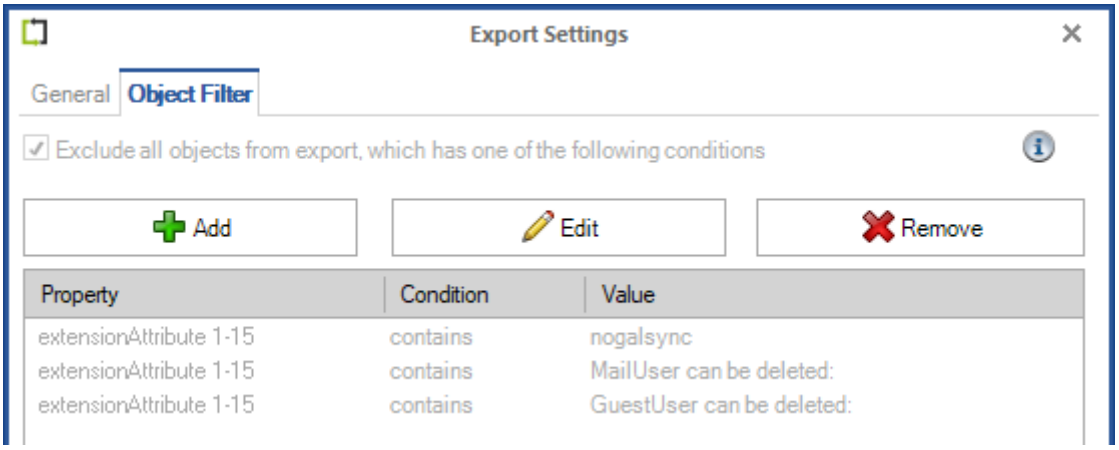


3. Two additional default rules have been added to the **Object Filter** of the **Export Settings** for **Export Policies**, so **MailUsers** and **GuestUsers**, which are marked for deletion, will not be exported by GALsync.

Additional rules for export from on-premises

extensionAttribute 1-15 contains **MailUser can be deleted:**

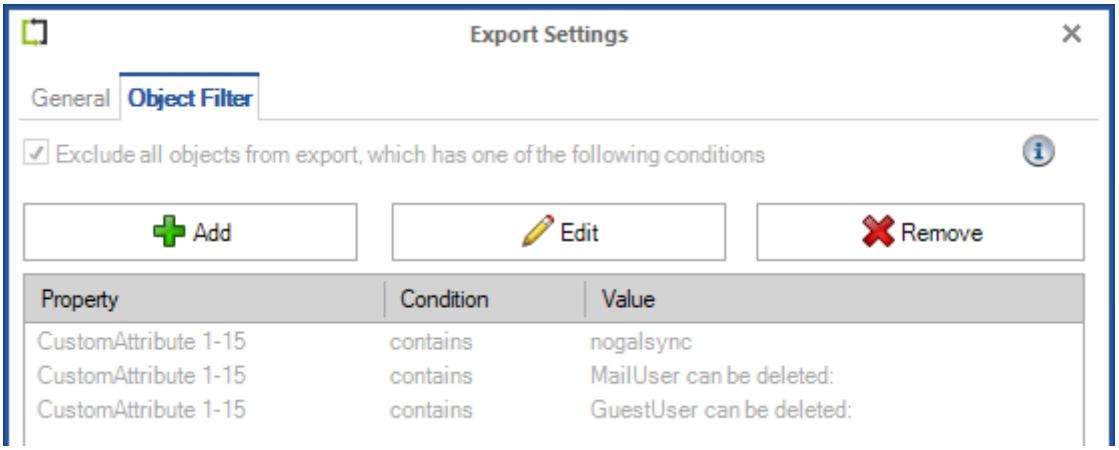
extensionAttribute 1-15 contains **GuestUser can be deleted:**



Additional rules for export from Exchange Online

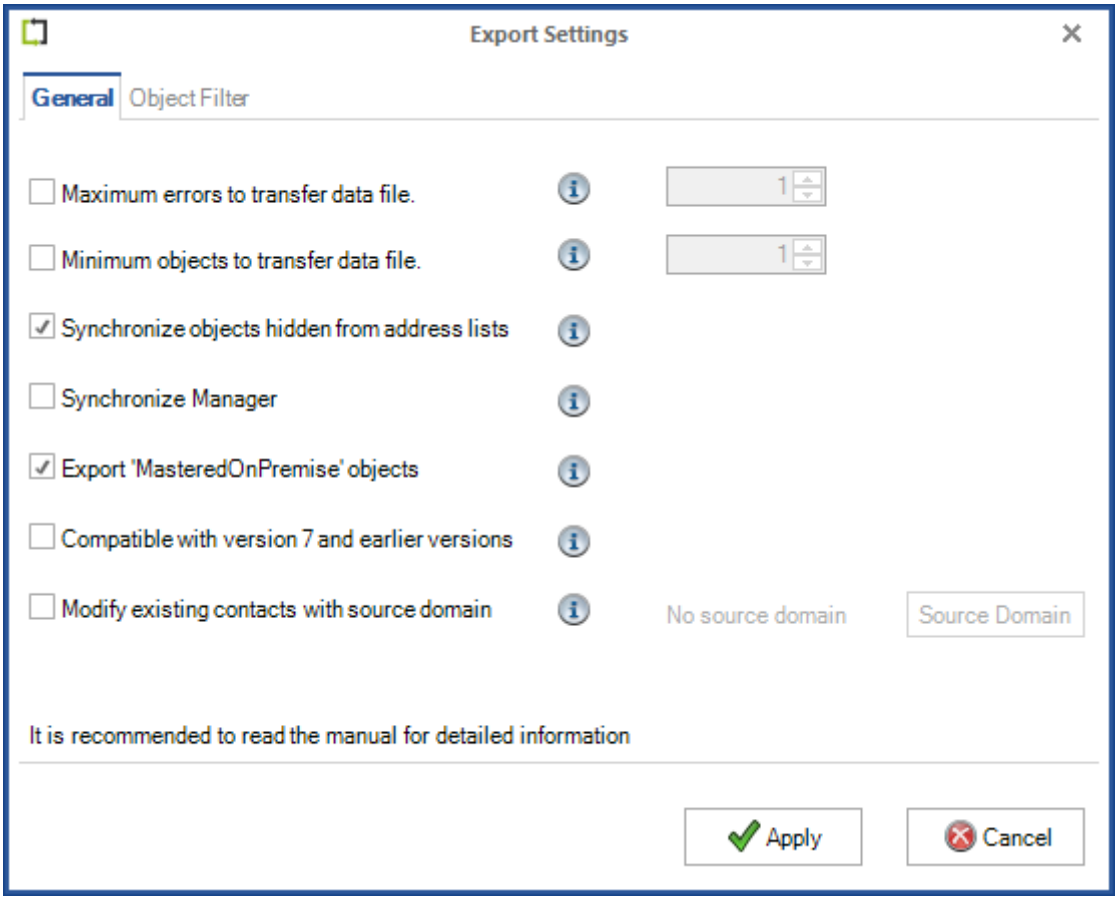
CustomAttribute 1-15 contains **MailUser can be deleted:**

CustomAttribute 1-15 contains **GuestUser can be deleted:**



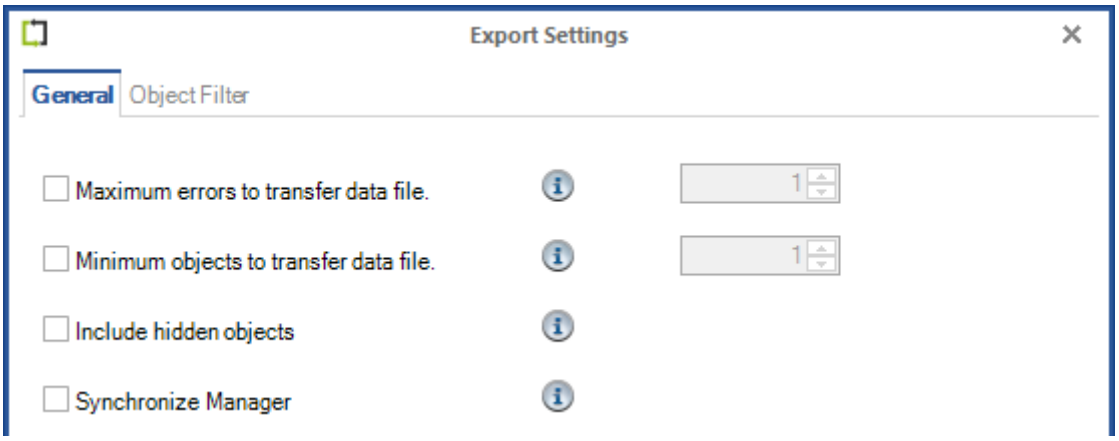
4. As of version 8.4, objects that are hidden from address list are no longer exported from Exchange Online by default.

Enable the **Synchronize objects hidden from address lists** option on the **General** tab of the **Export Settings** to also export objects that are hidden from address lists, from Exchange Online.

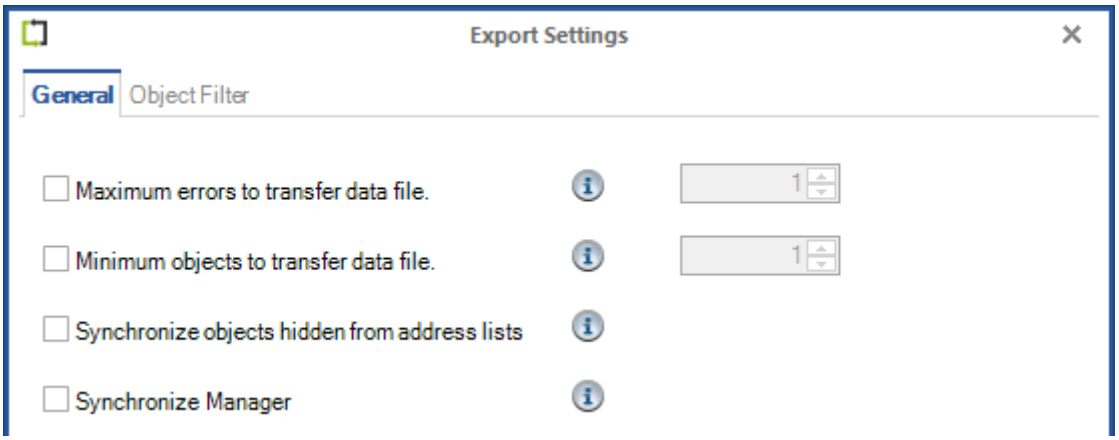


5. The Export Settings option **Include hidden objects** was renamed to **Synchronize objects hidden from address lists**. This will also export objects that are hidden from address lists, from on-premises Exchange.

Old design of version 8.3

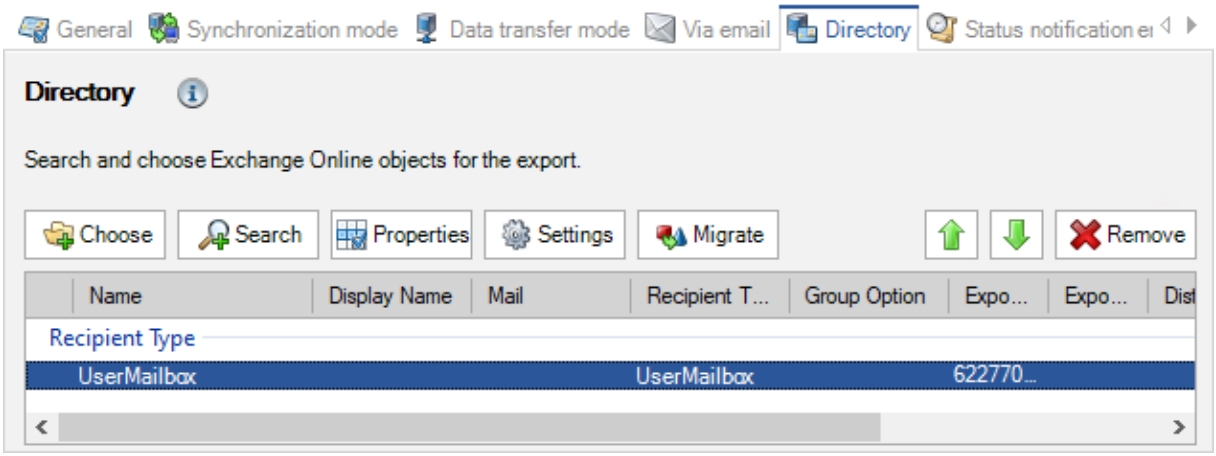


New design of version 8.4



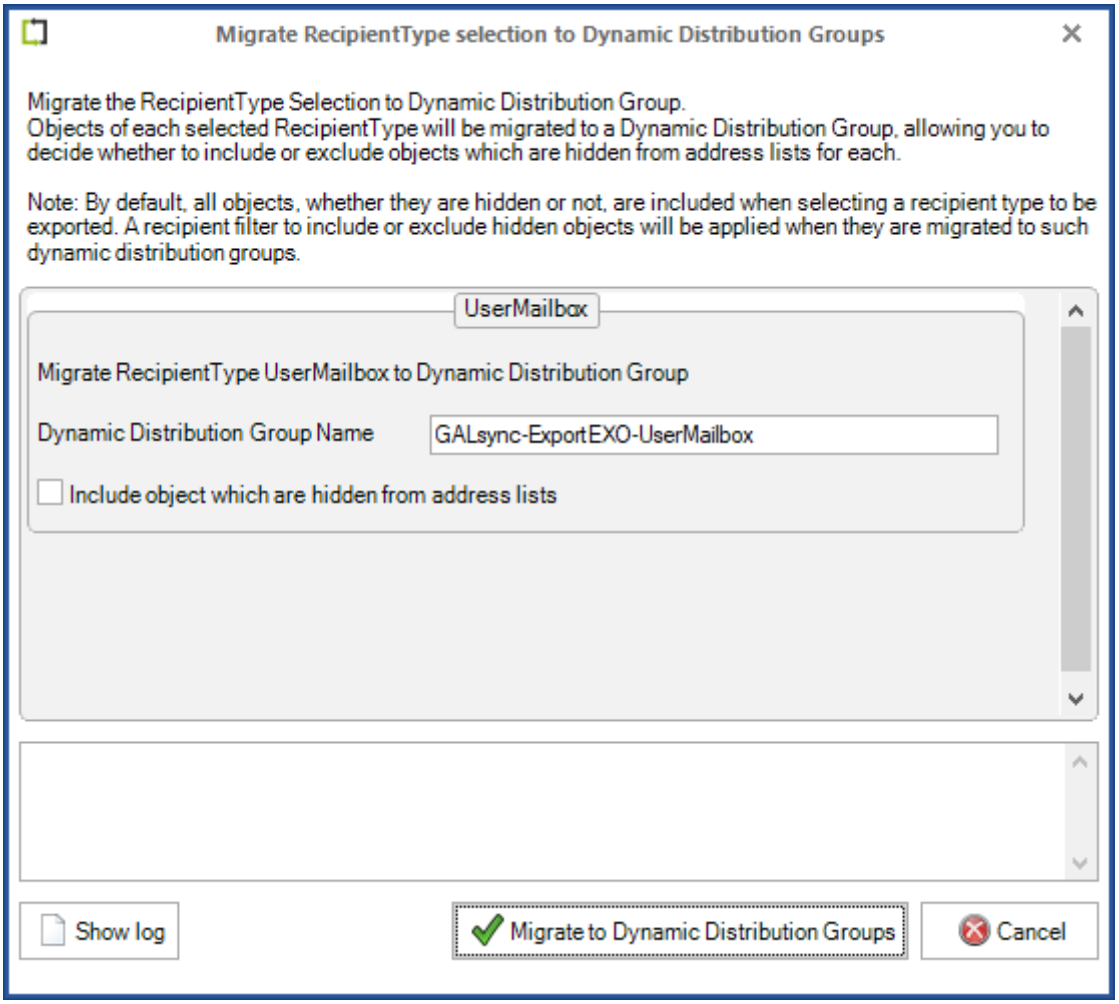
6. As of version 8.4, it is possible to migrate a selected **Recipient Type** on the **Directory** tab of a GALsync policy to a dynamic distribution group.

The selection by **Recipient Type** will be deprecated and it is not recommended to use for configuration any longer. It is recommended to define the selection of objects to be synchronized by membership in a group. The group can be searched for in the **Search** dialog and only its members are exported with the group option **Only Membership**. This allows you to specify much more precisely which objects will actually be exported.



Select one or multiple **Recipient Type** entries in the list and click **Migrate**.

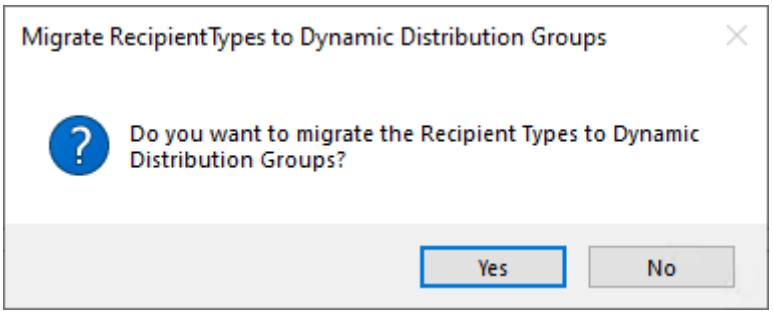
The **Migrate RecipientType selection to Dynamic Distribution Groups** dialog will open.

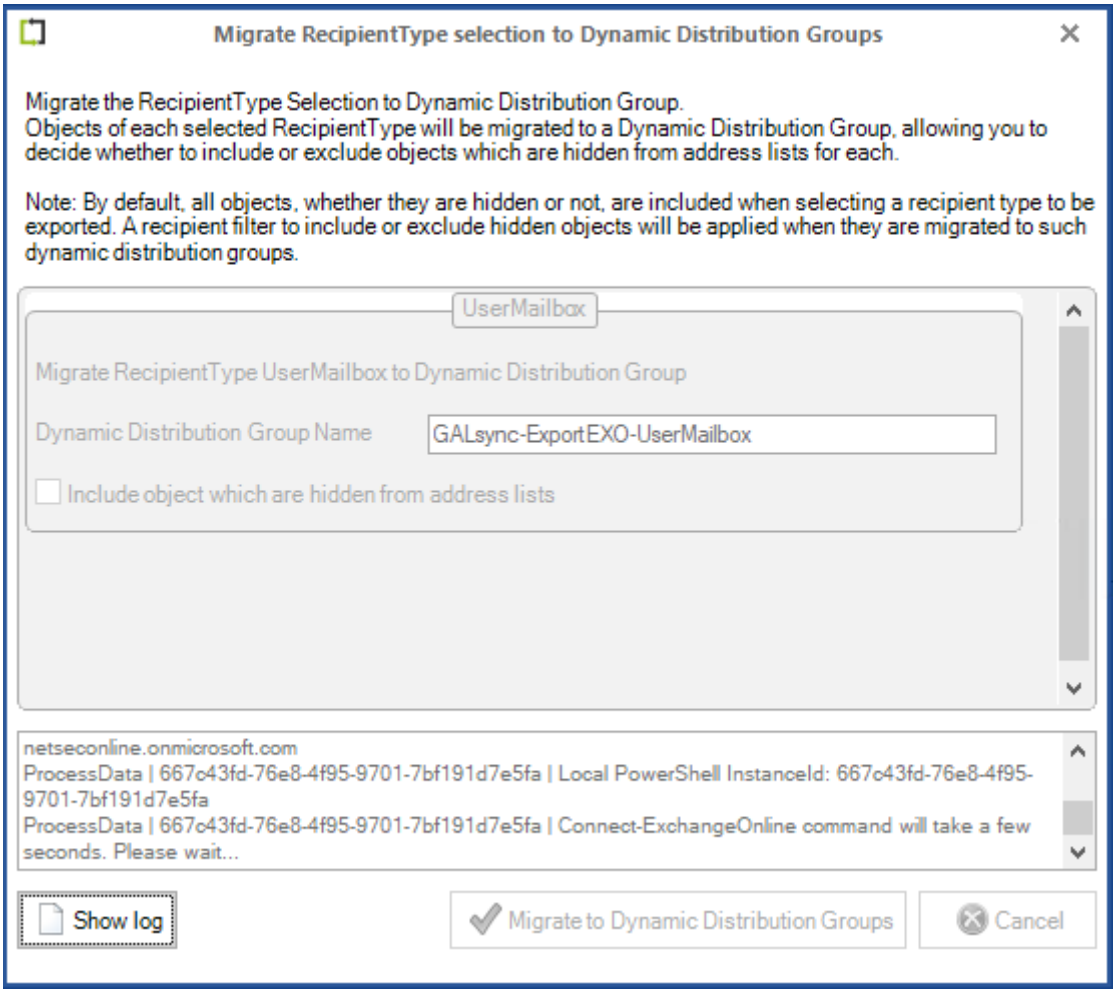


For each **Recipient Type** a dynamic distribution group will be created in Exchange Online.

The name of each dynamic distribution group must be unique in Exchange Online. The proposed name of the dynamic distribution group can be changed accordingly in the dialog before it's created in Exchange Online.

Click on **Migrate to Dynamic Distribution Groups**.



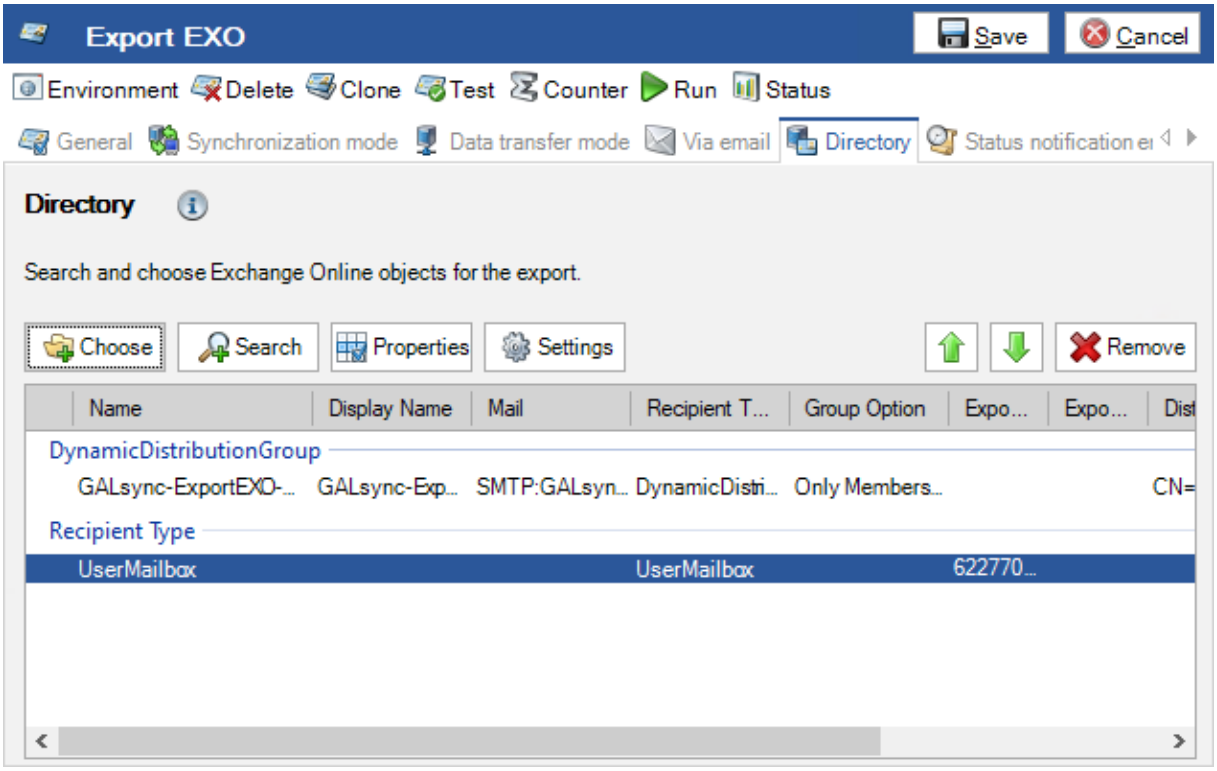


To create the dynamic distribution groups in Exchange Online, the **Exchange Online PowerShell** is used along with the settings from the **Environment Configuration**.

If the creation was successful, the dialog closes automatically.

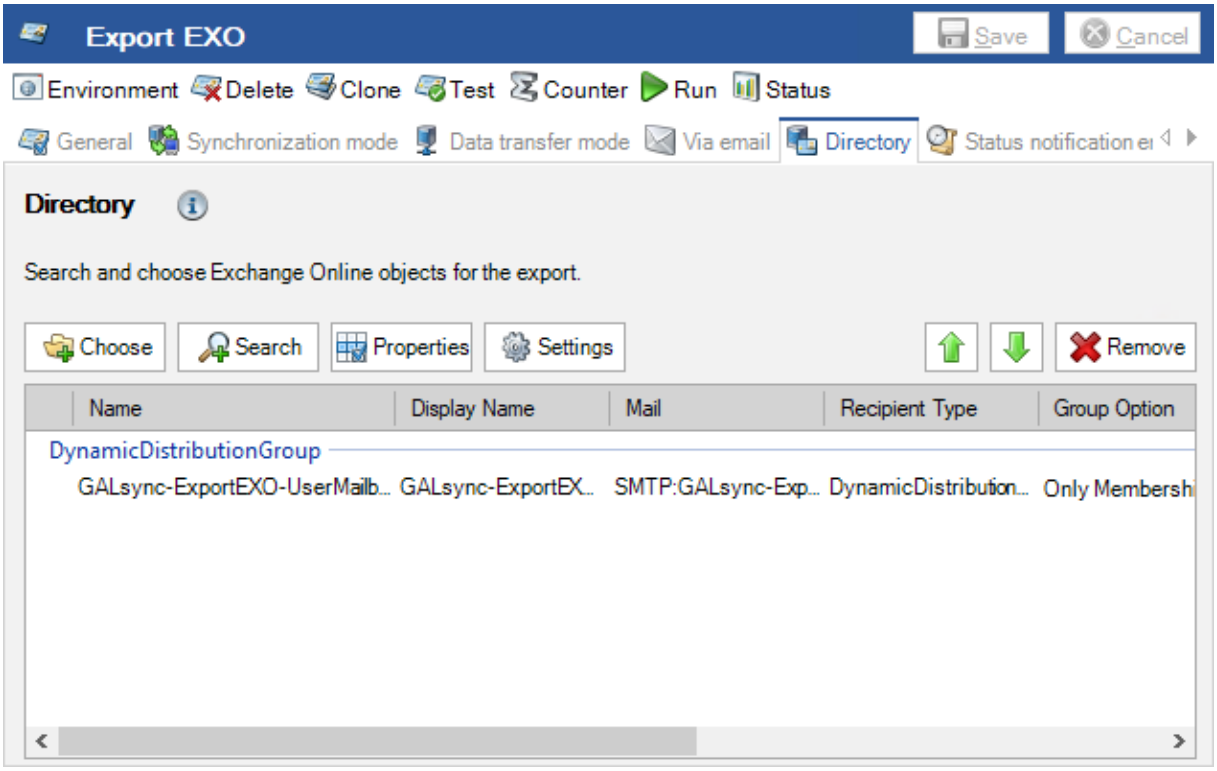
If an error occurs, the dialog remains open, and the log file can be viewed by clicking on **Show log** in order to understand what did not work.

Once the dynamic distribution groups have been successfully created, the **Recipient Type** entries and the dynamic distribution group entries are displayed together until the policy is saved.



Please save the policy.

When the policy is saved, the migrated **Recipient Type** entries are removed from the list.



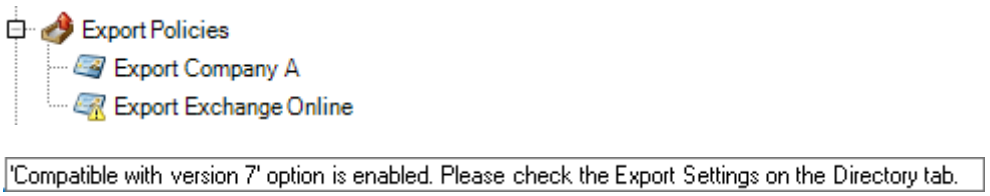
7. In GALsync version 7, when exporting from an Exchange Online tenant, the **ExternalEmailAddress / targetAddress** was set as the primary SMTP address in the **EmailAddresses / proxyAddresses**. This can cause problems, if the **ExternalEmailAddress** and the primary SMTP address are different.

As of GALsync version 8, the primary SMTP address of the **EmailAddresses** will not be changed by default when a new policy is created.

If the **Compatible with version 7 and earlier versions** option is enabled, GALsync will change the primary SMTP address of the **EmailAddresses** to the **ExternalEmailAddress** as with GALsync version 7.

In case of an upgrade from a GALsync version 7 and earlier to a current GALsync version 8, the **Compatible with version 7 and earlier versions** option is enabled.

Policies with enabled **Compatible with version 7 and earlier versions** option have warning symbol at the tree view node.



Please note, after disabling the option during importing on your partner's side, GALsync will modify existing objects that are being synchronized in order to possibly adjust the primary SMTP address and the value of the source domain property.

Please take a look at the chapters

Compatible with version 7 and earlier versions (Exchange Online only)

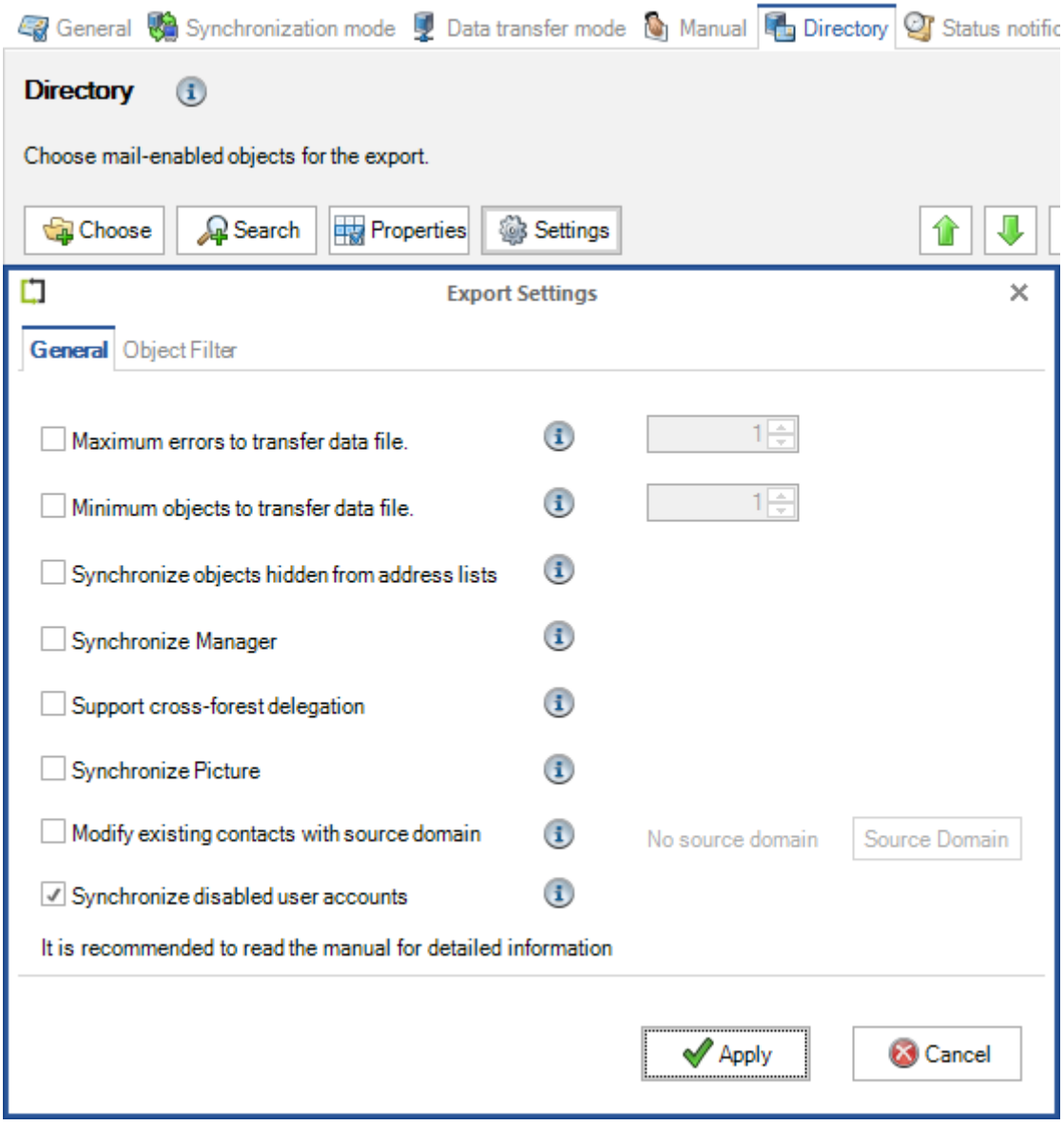
Migration steps for synchronization of multiple Exchange environments

8. Please note, during the first **contactSync policy** run after upgrading GALsync from an older version than 8.4.0, it may update all previously synchronized contacts in the mailboxes.

9. As of version 8.4.2, user account objects that are disabled are no longer exported from on-premises Active Directory by default.

Enable the **Synchronize disabled user accounts** option on the **General** tab of the **Export Settings** to also export disabled user objects from on-premises.

In the event of an upgrade from a GALsync version 8.4.1 or earlier versions to a current GALsync version, the **Synchronize disabled user accounts** option is enabled in the existing policies.



GALsync version 8.3 compared with GALsync 8.2.x

1. As of version 8.3, GALsync does not use Autodiscover to detect the Exchange Web Services URL for Exchange Online anymore, instead it uses the default Exchange Web Services URL for Exchange Online world-wide:

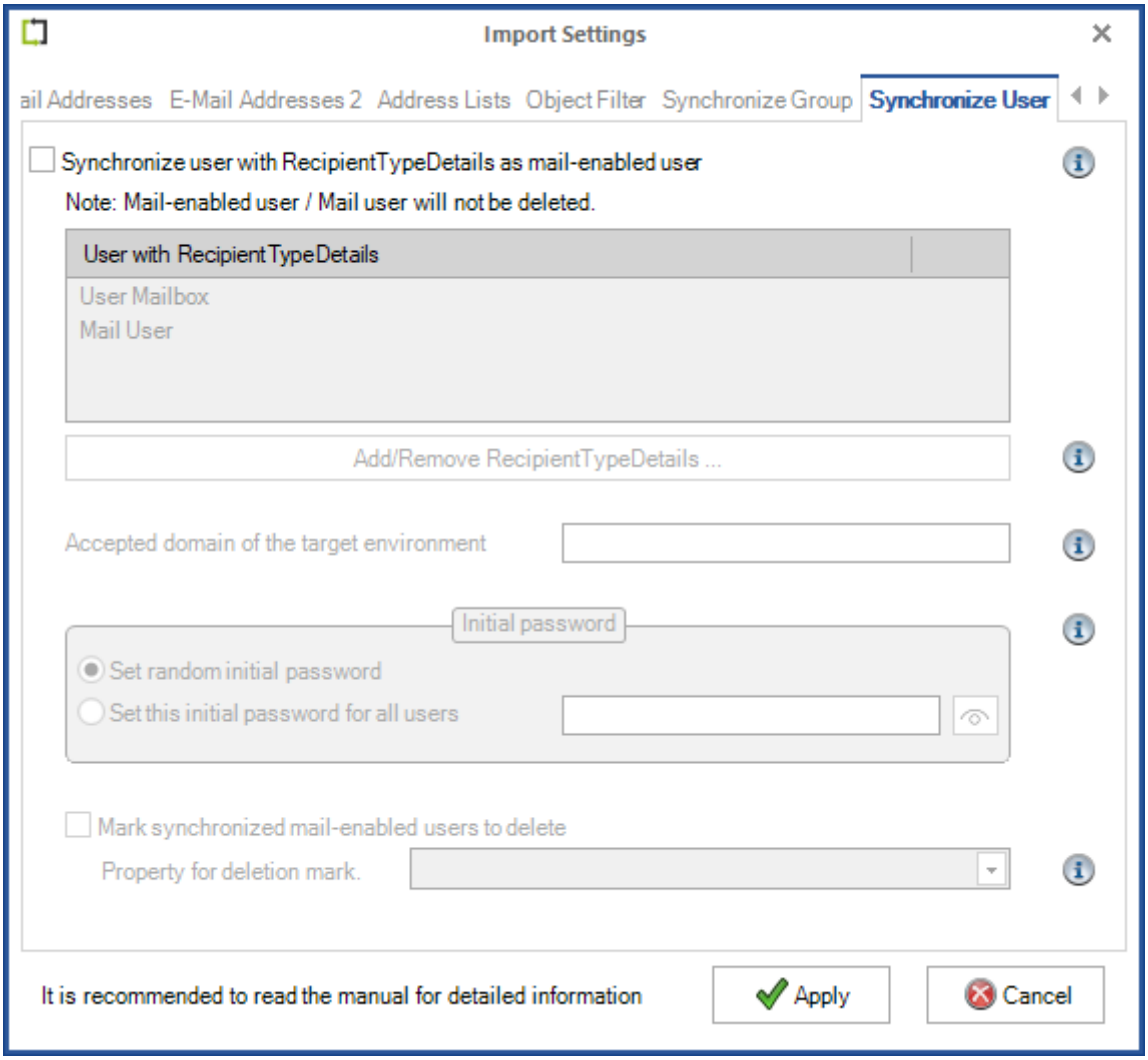
https://outlook.office365.com/EWS/Exchange.asmx

Otherwise please use the manual setting for the Exchange Web Services URL for Exchange Online.

2. As of version 8.3, GALsync does not support Exchange 2010 any longer.

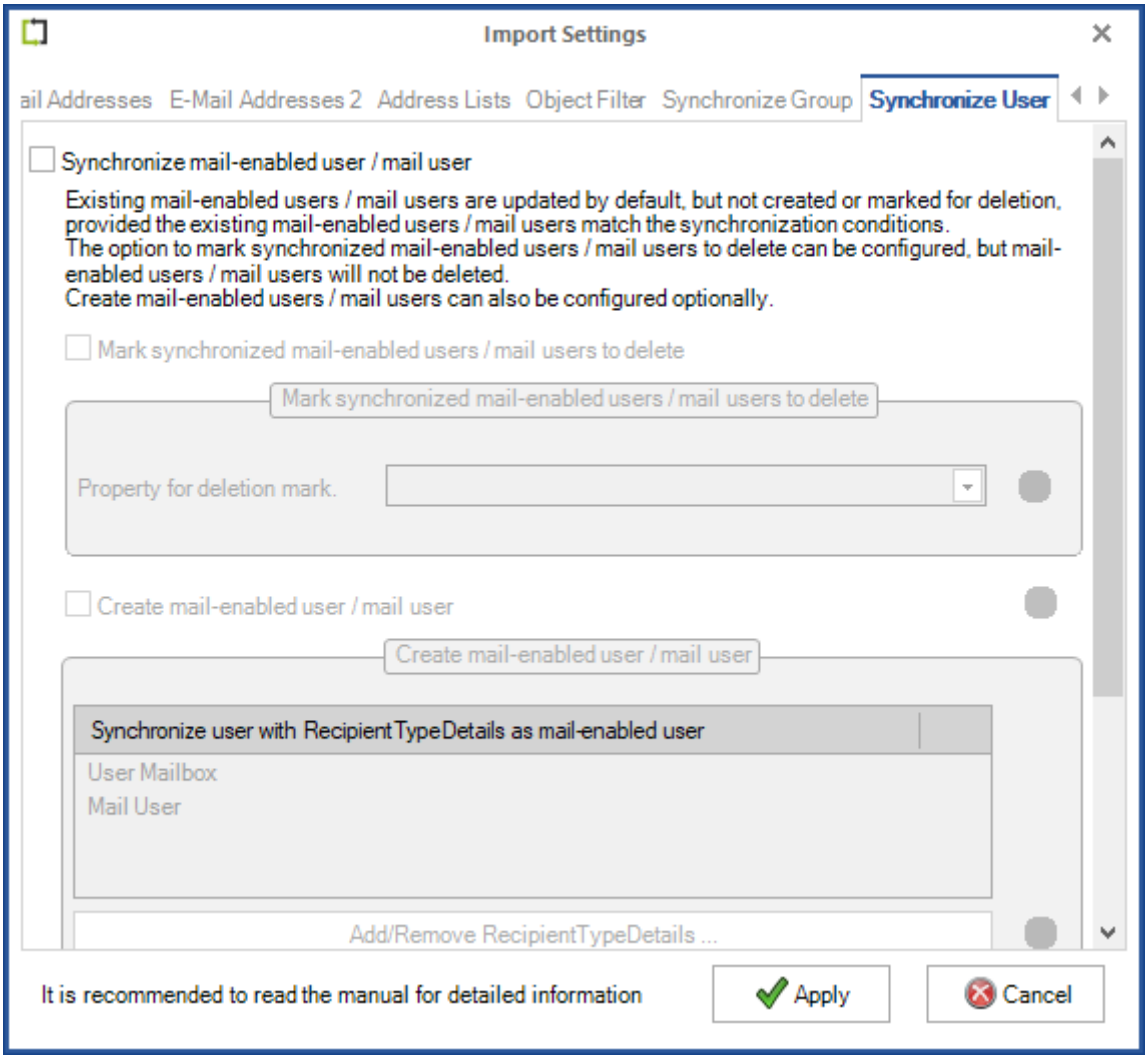
3. As of version 8.3.3, the **Synchronize User** tab of the **Import Settings** has been redesigned to allow only updating existing mail users without creating new mail users by GALsync.

Old design of the Synchronize User tab



Synchronize user with RecipientTypeDetails as mail-enabled user is renamed to **Synchronize mail-enabled user / mail user**

New design of the Synchronize User tab for Exchange on-premises



Existing mail-enabled users / mail users are updated by default, but not created or marked for deletion.

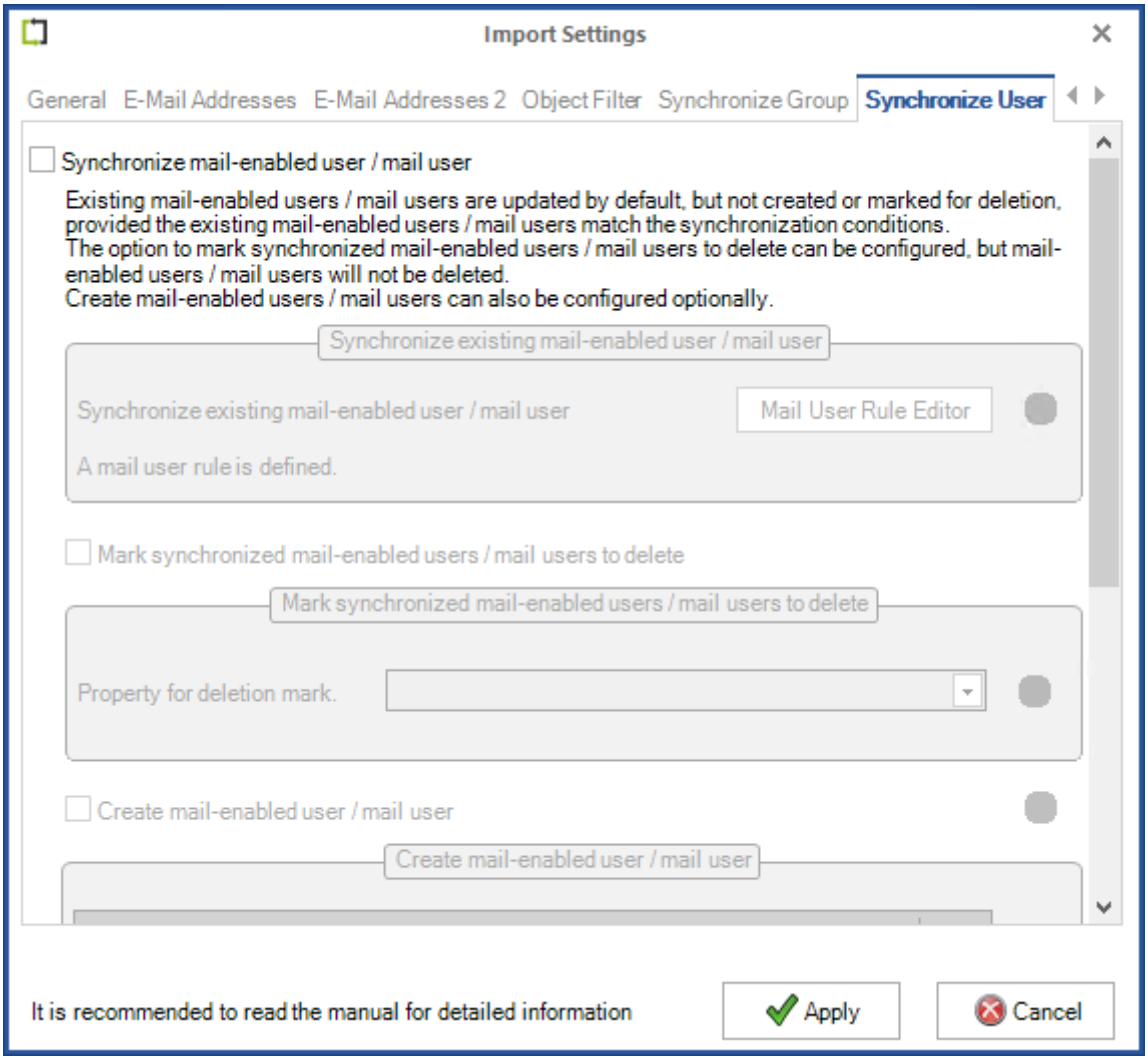
The option **Mark synchronized mail-enabled users / mail users to delete** can be enabled and configured.

One of the extensionAttribute 1-15 can be selected, where GALsync will be write the value starts with **MailUser can be deleted** …

Please note that mail-enabled users / mail users will not be deleted by GALsync.

Create mail-enabled users / mail users can also be configured optionally.

New design of the Synchronize User tab for Exchange Online



Existing mail users are updated by default, but not created or marked for deletion.

For GALsync to synchronize existing mail users in the target Microsoft 365 tenant they must be marked accordingly.

Note: GALsync cannot update Phone and Mobile Phone for Mail User in Exchange Online. Microsoft has changed the Exchange Online PowerShell command Set-User and excluded updating Phone and Mobile Phone for security reasons.

The option **Mark synchronized mail-enabled users / mail users to delete** can be enabled and configured.

One of the CustomAttribute 1-15 can be selected, where GALsync will be write the value starts with **MailUser can be deleted** …

Please note that mail-enabled users / mail users will not be deleted by GALsync.

Create mail users can also be configured optionally.

GALsync version 8.2 compared with GALsync 8.1.x

1. As of version 8.2, GALsync requires **Windows PowerShell 5.1** and **ExchangeOnlineManagement PowerShell module version 3.1 or later** for **Exchange Online PowerShell V3**.

The **ExchangeOnlineManagement PowerShell module** needs to be installed or updated on the GALsync Server, so GALsync can directly communicate with an Office 365 Exchange Online tenant.

Install ExchangeOnlineManagement PowerShell module

On the GALsync Server, open **Windows PowerShell** as **Administrator**, then run the following to install:

```
Install-Module -Name ExchangeOnlineManagement -Force
```

When prompted, enter **Y** for Yes then Return

Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter of the **Microsoft Docs: About the Exchange Online PowerShell module**

https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#install-the-exchange-online-powershell-module

Update ExchangeOnlineManagement PowerShell module

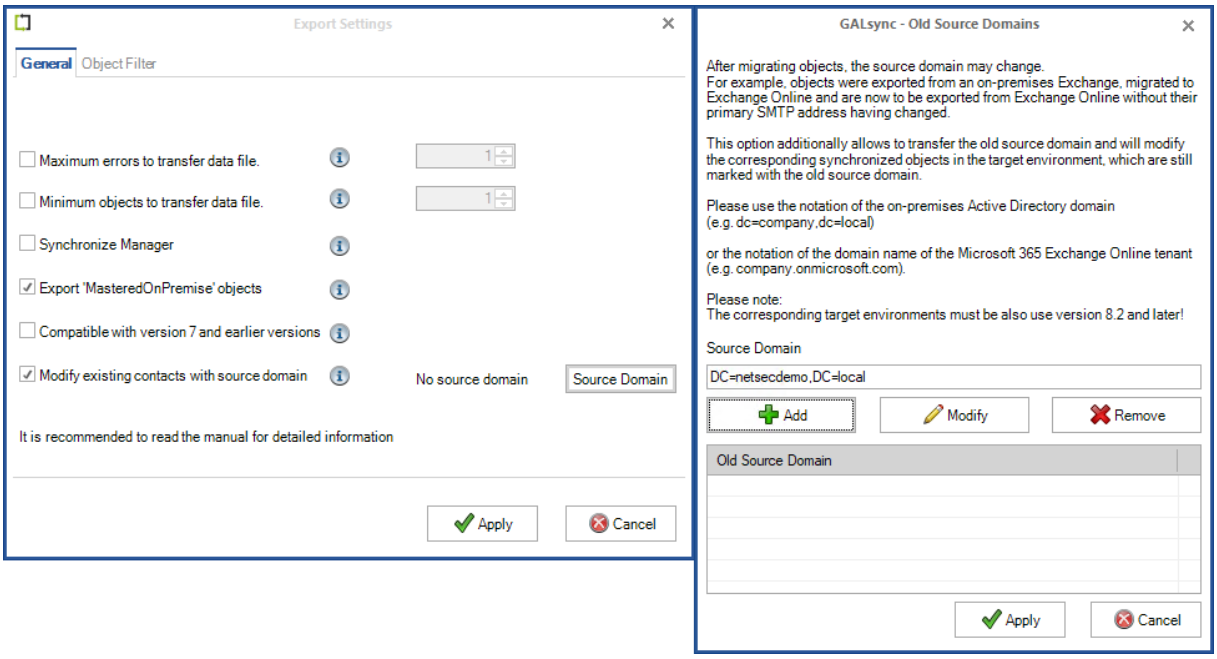
On the GALsync Server, open **Windows PowerShell** as **Administrator**, then run the following to update:

```
Update-Module -Name ExchangeOnlineManagement -Force
```

Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter of the **Microsoft Docs: About the Exchange Online PowerShell module**

https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#update-the-exchange-online-powershell-module

2. As of version 8.2, GALsync has added support to **Modify existing contacts with source domain**. This option allows to migrate the export policy in a hybrid Exchange environment from the on-premises component to the Exchange Online component of a hybrid Exchange environment, and from the Exchange Online component to the on-premises component of a hybrid Exchange environment.



Please note that the importing partners also need GALsync version 8.2 or later, if you enabled this option. Otherwise, the importing partners will get warnings or errors and GALsync cannot import the data file.

Please take a look for a detailed description at the **How to migrate the source of the export policy in a hybrid Exchange environment?** chapter in the **GALsync 8.2 manual** and later.

https://www.netsec.de/en/products/galsync/documentation.html

GALsync version 8.1 compared with GALsync 8.0.x

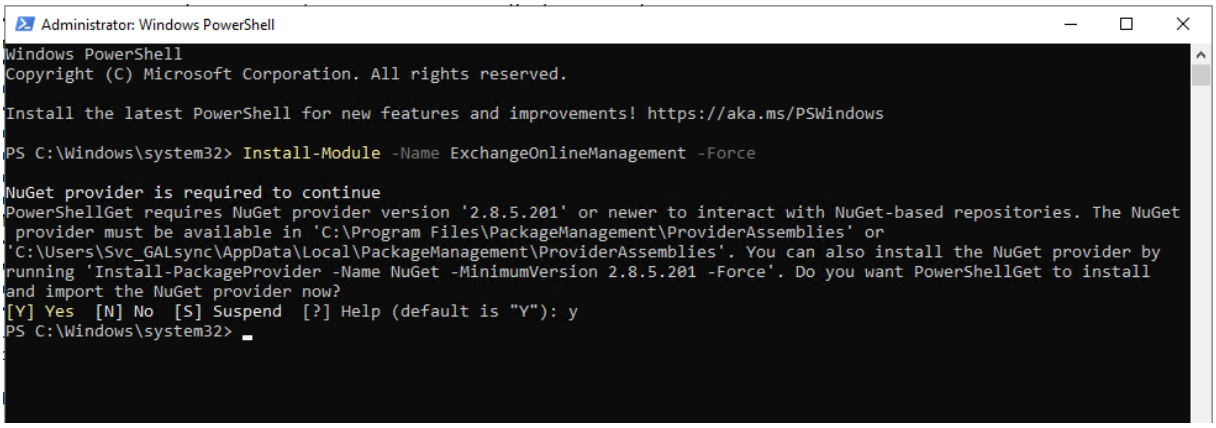
1. As of version 8.1, GALsync requires **Windows PowerShell 5.1** and the **ExchangeOnlineManagement PowerShell module** for **Exchange Online PowerShell V3**.

The **ExchangeOnlineManagement PowerShell module** needs to be installed on the GALsync Server, so GALsync can directly communicate with an Office 365 Exchange Online tenant.

On the GALsync Server, open **Windows PowerShell** as **Administrator**, then run the following:

```
Install-Module -Name ExchangeOnlineManagement -Force
```

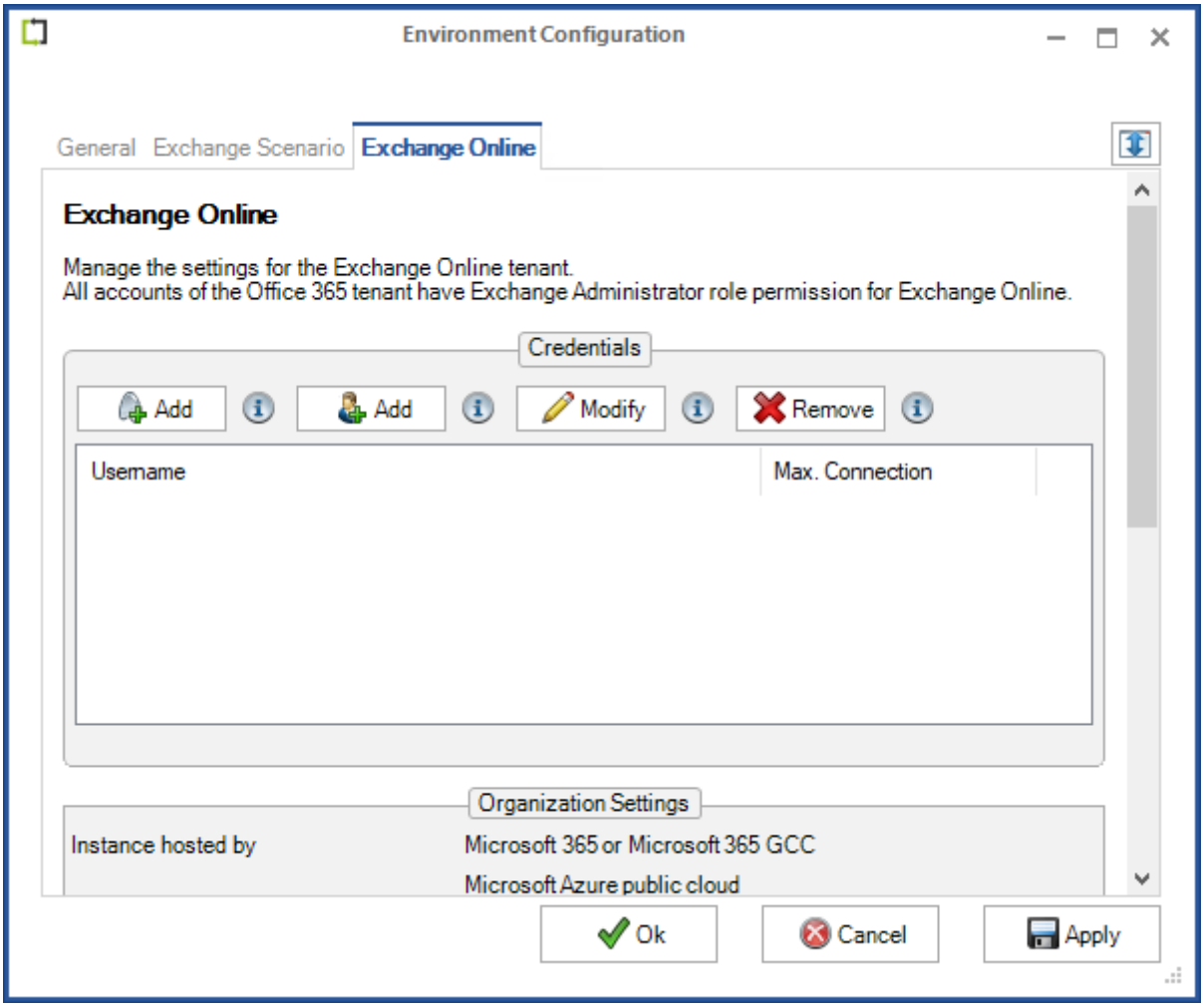
When prompted, enter **Y** for Yes then Return



Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter of the **Microsoft Docs: About the Exchange Online PowerShell module**

https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#prerequisites-for-the-exchange-online-powershell-module

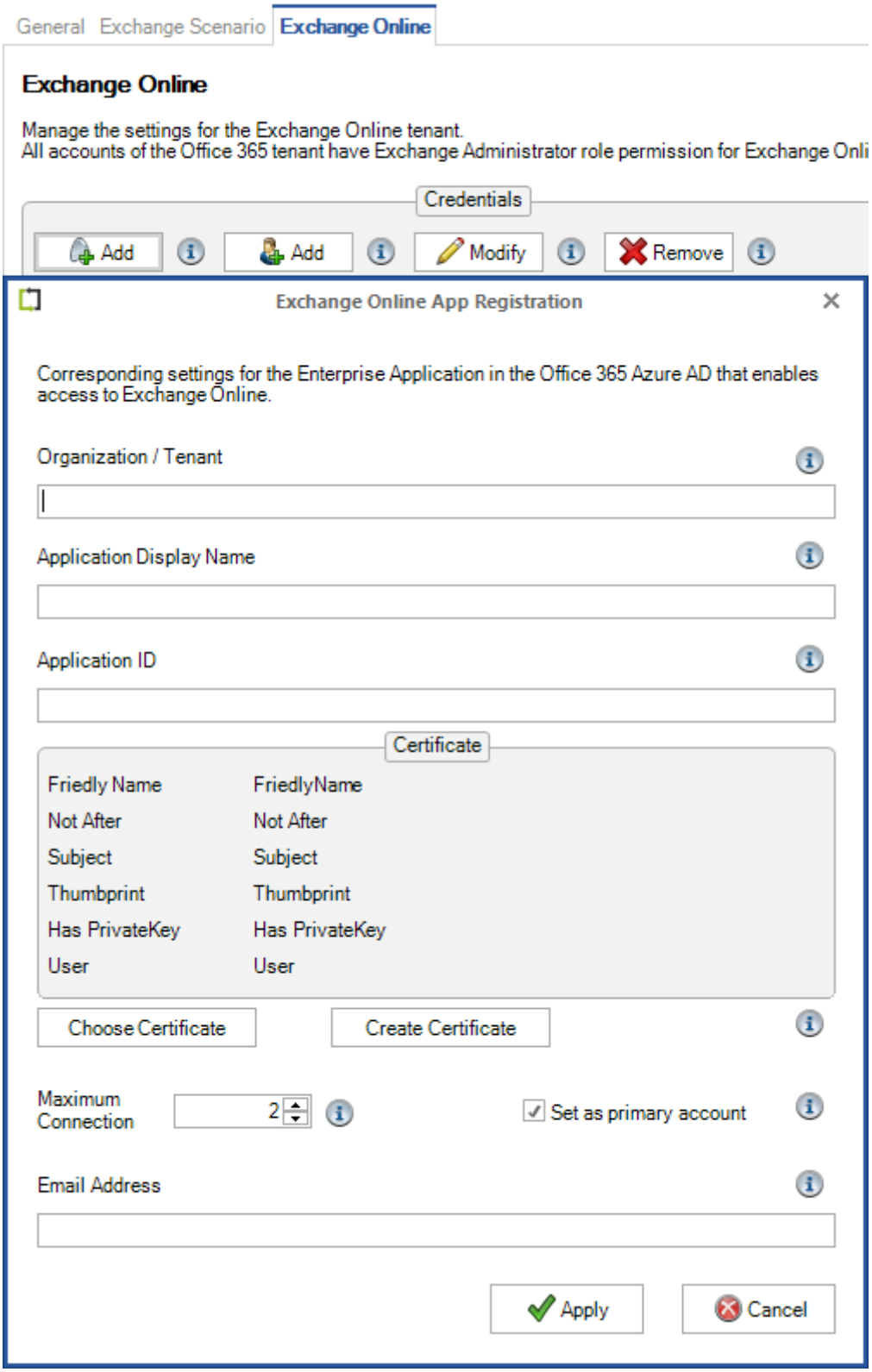
2. As of GALsync version 8.1, the **certificate-based authentication** method to establish a connection to Exchange Online is available on the Exchange Online tab of the **Environment Configuration**.



Please take a look at the **GALsync 8.1 manual** for further information

https://www.netsec.de/en/products/galsync/documentation.html

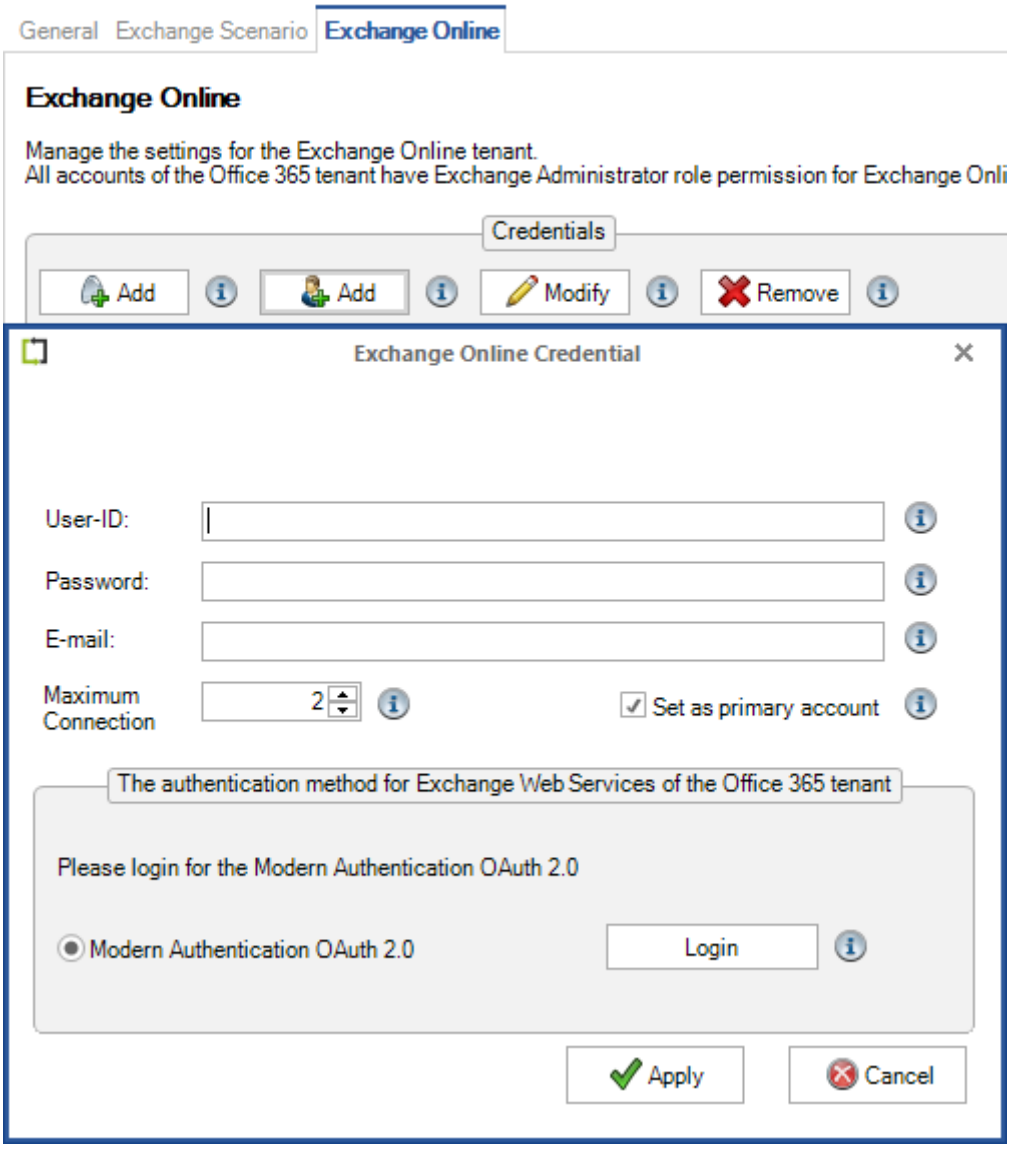
The **Add** button on the left will open a dialog window in which to configure **certificate-based authentication** via **App registration** for the Exchange Online tenant.



Please take a look at the **Exchange Online certificate-based authentication via App Registration** chapter in the **GALsync 8.1 manual** for further information

https://www.netsec.de/en/products/galsync/documentation.html

The **Add** button on the right will open a dialog window in which to configure **user-based authentication** via **Service Account** for the Exchange Online tenant.



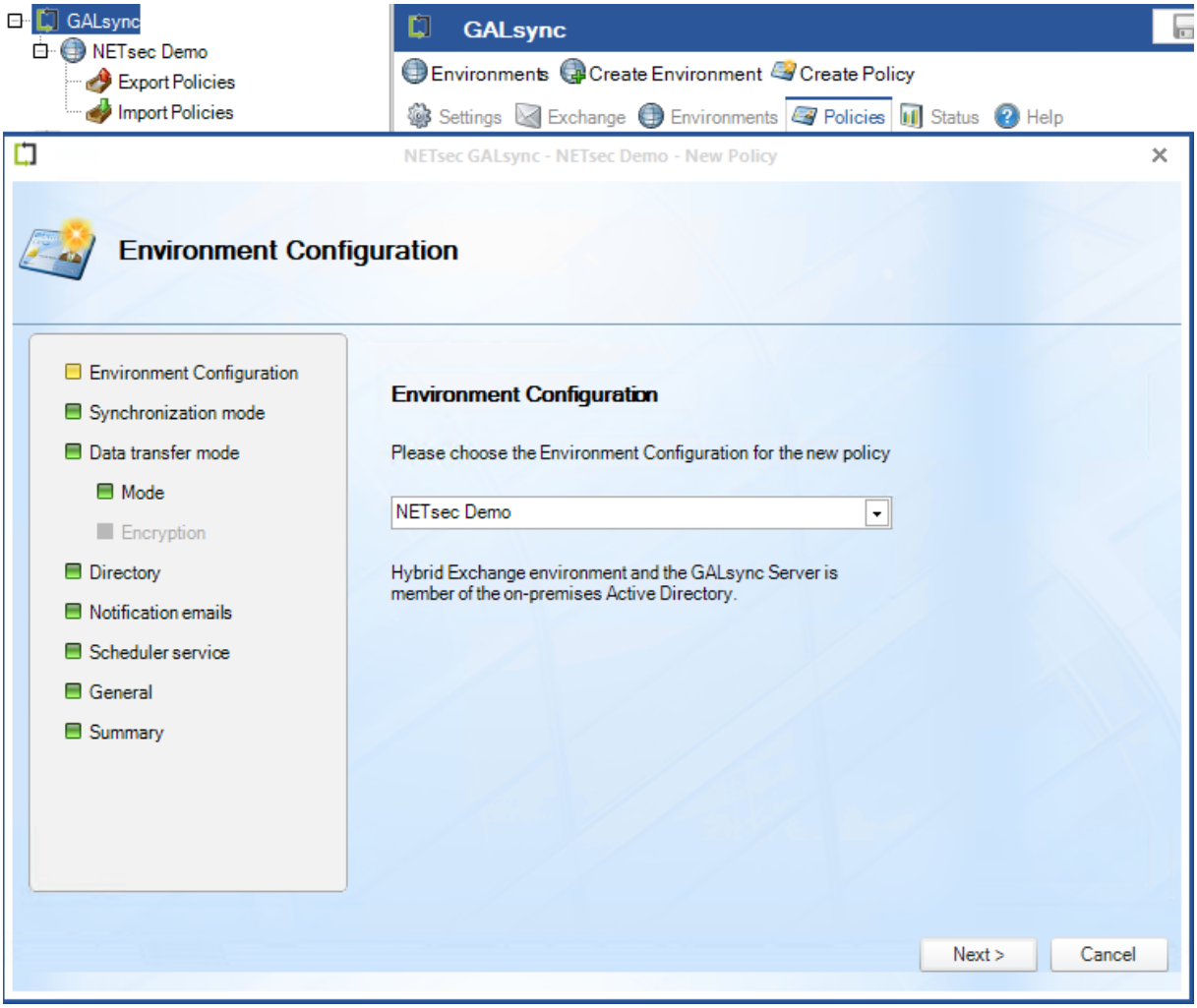
Please take a look at the **Exchange Online authentication via Service Account** chapter in the **GALsync 8.1 manual** for further information

https://www.netsec.de/en/products/galsync/documentation.html

GALsync version 8.0 compared with GALsync 7.6.x

1. As of GALsync version 8.0, the value for the source domain attribute has been expanded. Because of this, all previously imported objects from GALsync 7 or earlier versions will be updated.

2. As of GALsync version 8.0, new policies can only be created for an **Environment Configuration**. You must create and configure an **Environment Configuration** before you can create a policy.



Please take a look at the **GALsync 8.0 manual** for further information

https://www.netsec.de/en/products/galsync/documentation.html

3. As of version 8.0, GALsync requires **Windows PowerShell 5.1** and the **ExchangeOnlineManagement PowerShell module** for **Exchange Online PowerShell V2** (ExchangeOnlineManagement module version 2.0.3 - 2.0.5)

The **ExchangeOnlineManagement PowerShell module** needs to be installed on the GALsync Server, so GALsync can directly communicate with an Office 365 Exchange Online tenant.

On the GALsync Server, open **Windows PowerShell** as **Administrator**, then run the following:

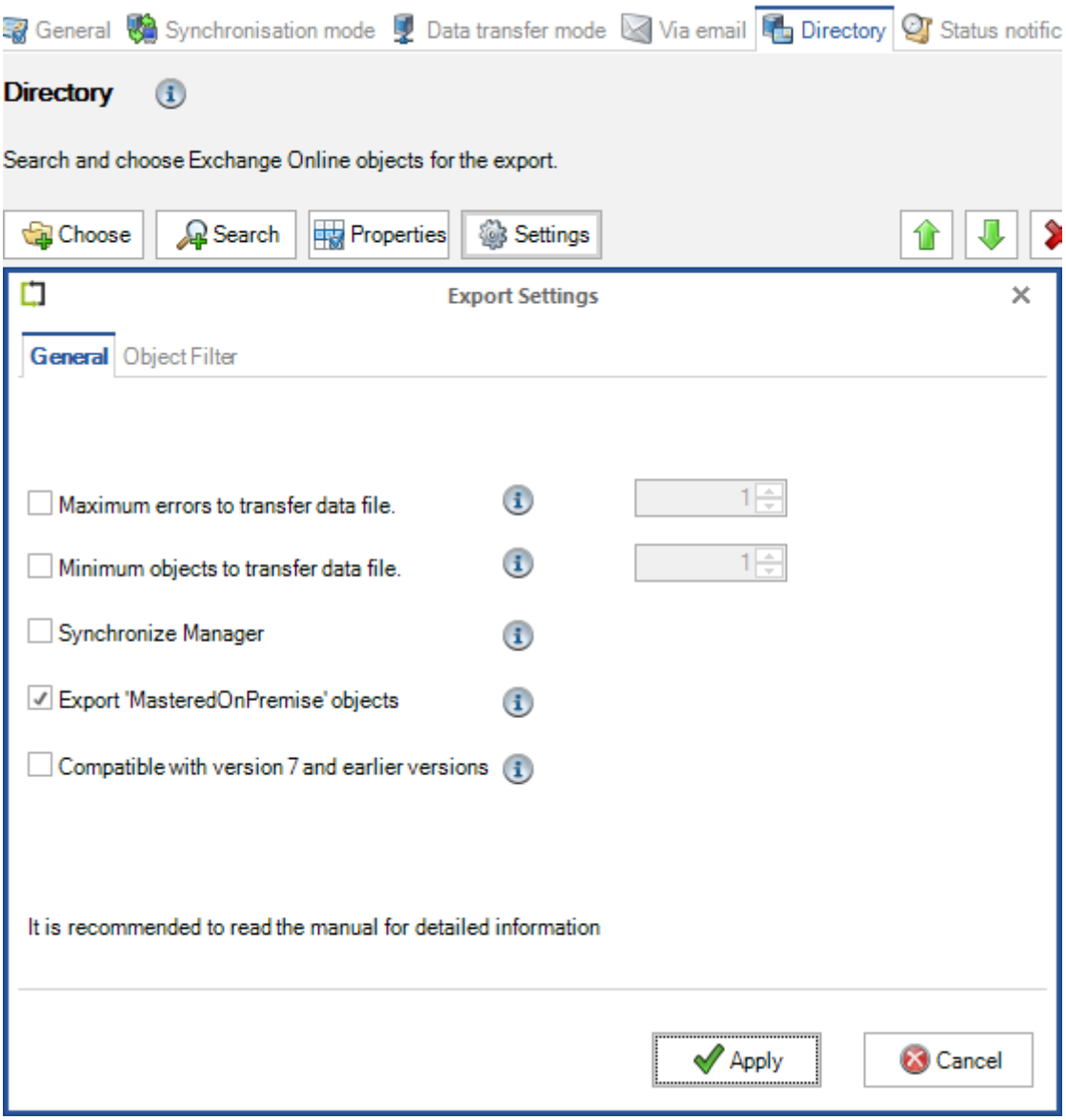
```
Install-Module -Name ExchangeOnlineManagement -RequiredVersion 2.0.5 -Force
```

When prompted, enter **Y** for Yes then Return

Please take a look at the **Prerequisites for the EXO V2 module** chapter of the **Microsoft Docs: About the Exchange Online PowerShell V2 module**

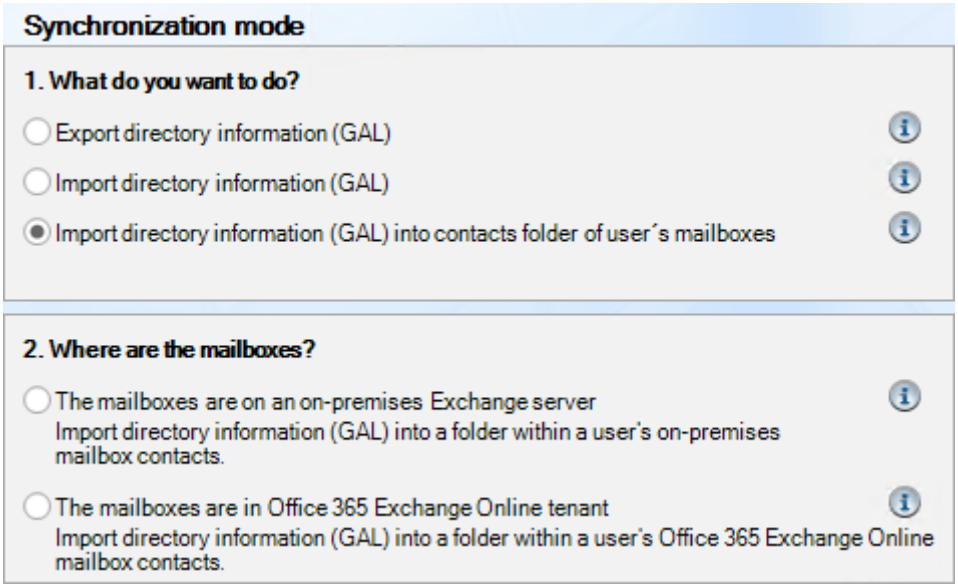
https://docs.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#prerequisites-for-the-exo-v2-module

4. As of GALsync version 8.0, newly created export policies from Exchange Online have the **Export 'MasteredOnPremise' objects** option of the **Export Settings** enabled by default.



5. The synchronization mode **Import directory information (GAL) into contacts folder of user´s mailboxes** has been deprecated.

As of GALsync version 8, it is no longer possible to create new policies with this synchronization mode.



As of contactSync version 8, you can now synchronize directory information from a hybrid Exchange environment's on-premises Active Directory into mailboxes located in the on-premises Exchange Server, or Exchange Online.

https://www.netsec.de/en/products/contactsync/overview.html

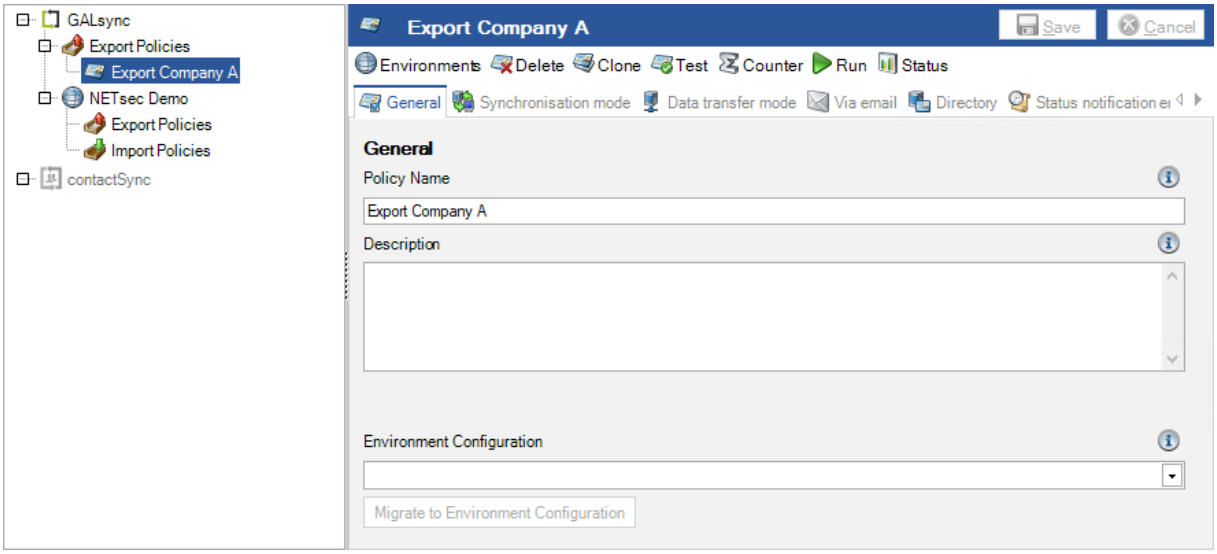
6. Please read the following chapters to understand the breaking changes of GALsync version 8, and how to handle it in your synchronization scenario.

We have described a possible issue using a synchronization scenario as an example.

There are other optional Export Settings and Import Settings in the Policies that similarly require your attention so that there are no problems when switching to the current GALsync version.

Migrate an existing policy

Policies created by GALsync version 7 or earlier versions have no Environment Configuration.



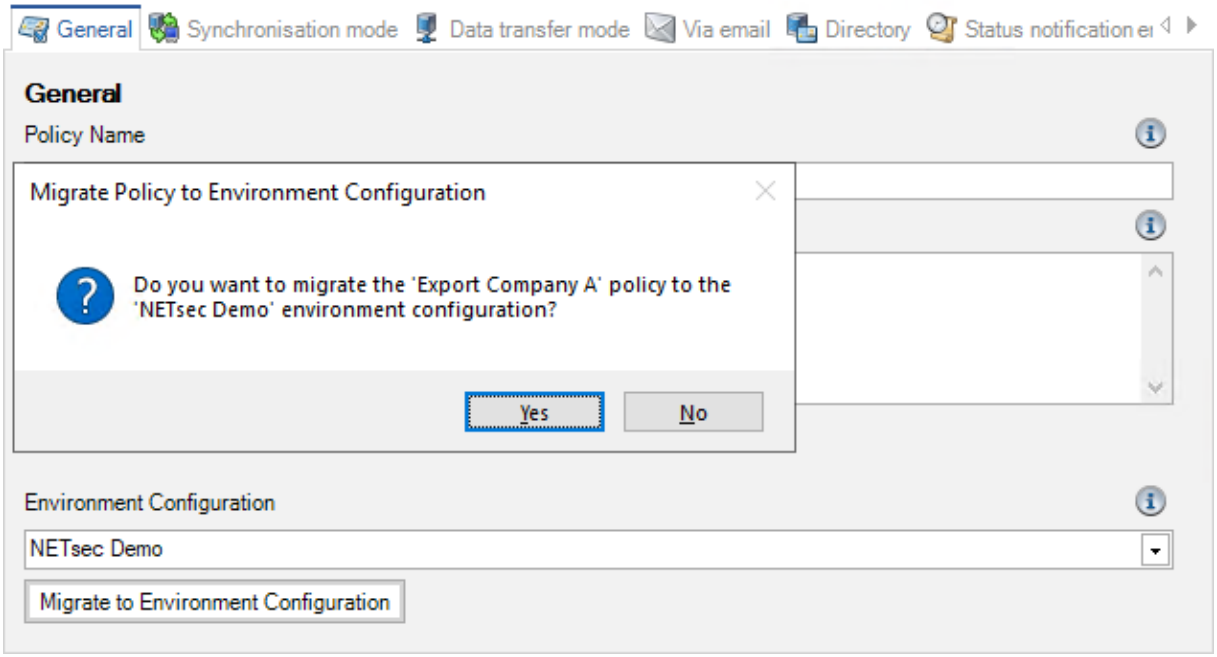
You can migrate such a policy to a corresponding Environment Configuration.

Please note that a policy can only migrate once.

Select the corresponding **Environment Configuration** on the **General** tab of the policy and click **Migrate to Environment Configuration**.

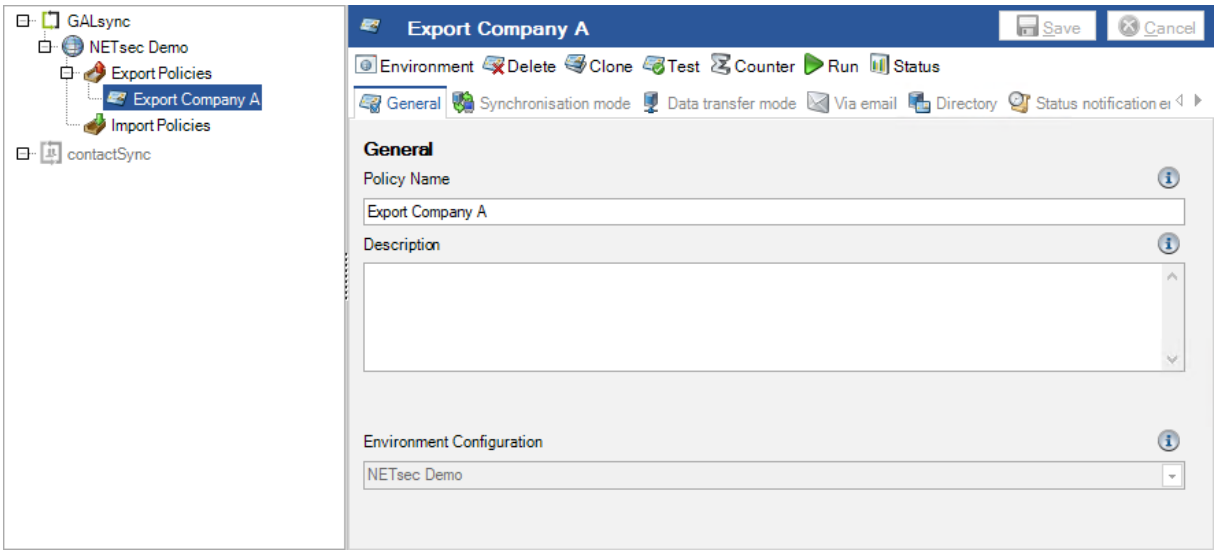
If you are sure, you have selected the correct **Environment Configuration** for the policy migration, click Yes to migrate the policy to the selected **Environment Configuration**.

Please note that a policy can only migrate once.



After that, please save the policy.

The policy now belongs to the corresponding Environment Configuration and uses the settings of the Environment Configuration for the Exchange environment.



Export policy from Exchange Online

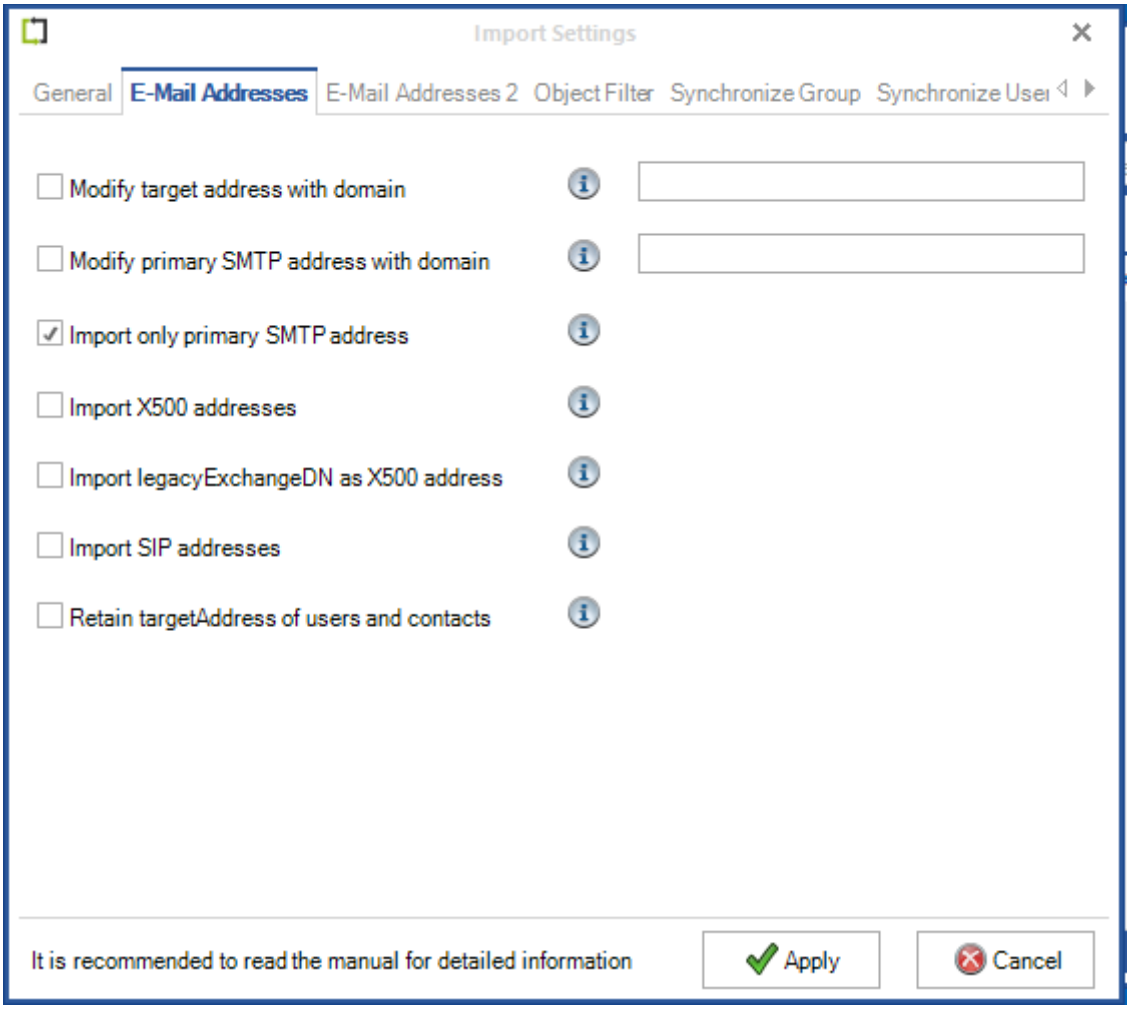
GALsync 7: Export from Exchange Online

When exporting from Exchange Online with GALsync version 7 or earlier, if a mail-enabled object has an **ExternalEmailAddress**, this **ExternalEmailAddress** is written as the **primary SMTP address** to the **proxyAddresses** of the object in the data file.

Office 365 Exchange Online	
Name	John_Doe
EmailAddresses	SMTP:john.doe@partnerdemo.de
ExternalEmailAddress	SMTP:john.doe@contoso.com
PrimarySmtpAddress	john.doe@partnerdemo.de

GALsync Data File Version 7 and earlier	
name	John_Doe
proxyAddresses	smtp:john.doe@partnerdemo.de SMTP:john.doe@contoso.com
targetAddress	SMTP:john.doe@contoso.com

This behavior can cause email delivery problems in conjunction with hybrid Exchange environments, after importing such an object as a mail-enabled contact, if the **ExternalEmailAddress** and **primary SMTP address** of the source object are different, and the **Import only primary SMTP address** option of the **Import Settings** is enabled for the corresponding import policy.



GALsync 8: Export from Exchange Online

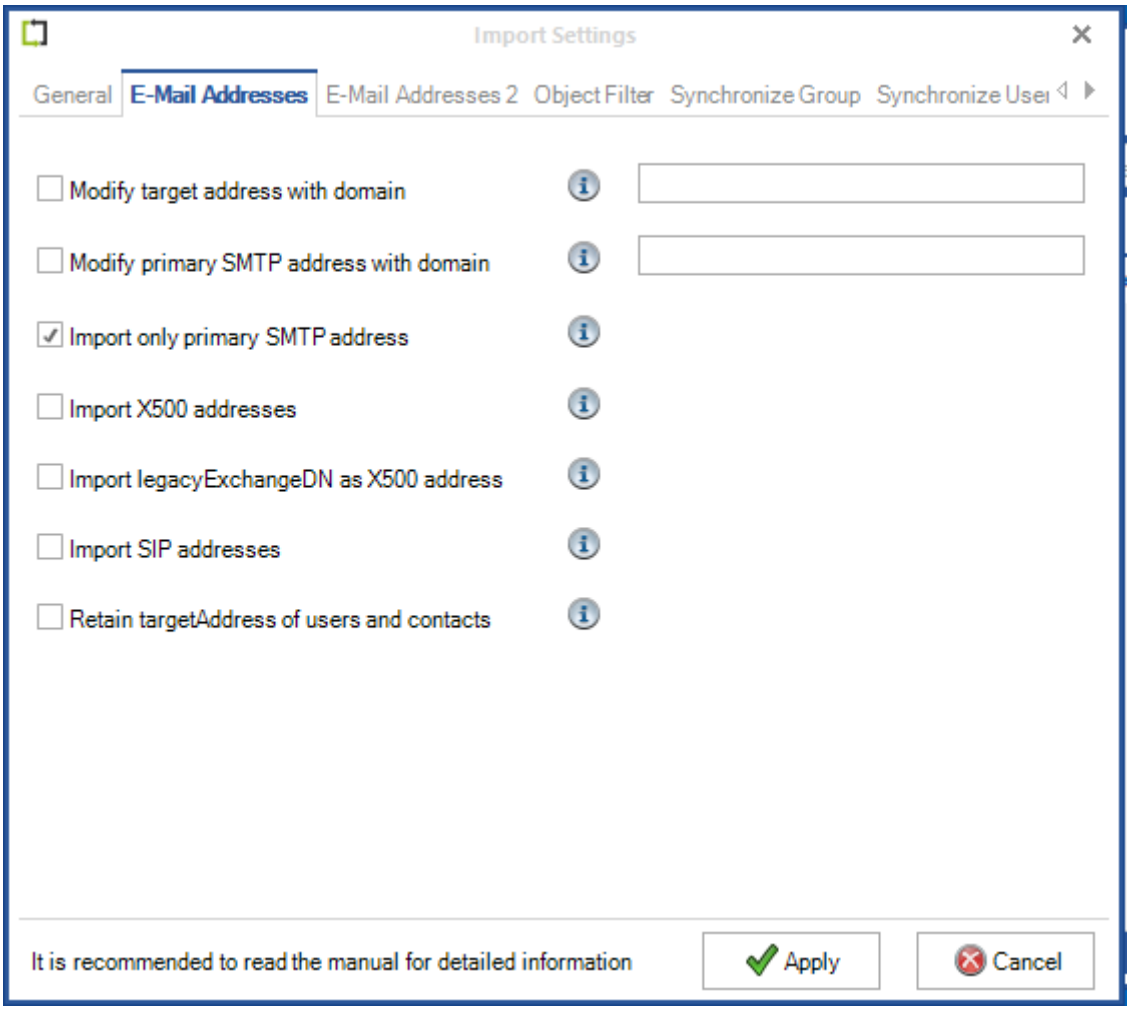
As of GALsync 8, the **primary SMTP address** will no longer change during an export from Exchange Online.

Office 365 Exchange Online	
Name	John_Doe
EmailAddresses	SMTP:john.doe@partnerdemo.de
ExternalEmailAddress	SMTP:john.doe@contoso.com
PrimarySmtpAddress	john.doe@partnerdemo.de

GALsync Data File Version 8	
name	John_Doe
proxyAddresses	SMTP:john.doe@partnerdemo.de
targetAddress	SMTP:john.doe@contoso.com

Unfortunately, the fix for the Exchange Online export may cause synchronization issues if you have upgraded from GALsync version 7 or earlier versions to GALsync version 8.

Especially if the **Import only primary SMTP address** option of the **Import Settings** is enabled for import policies.

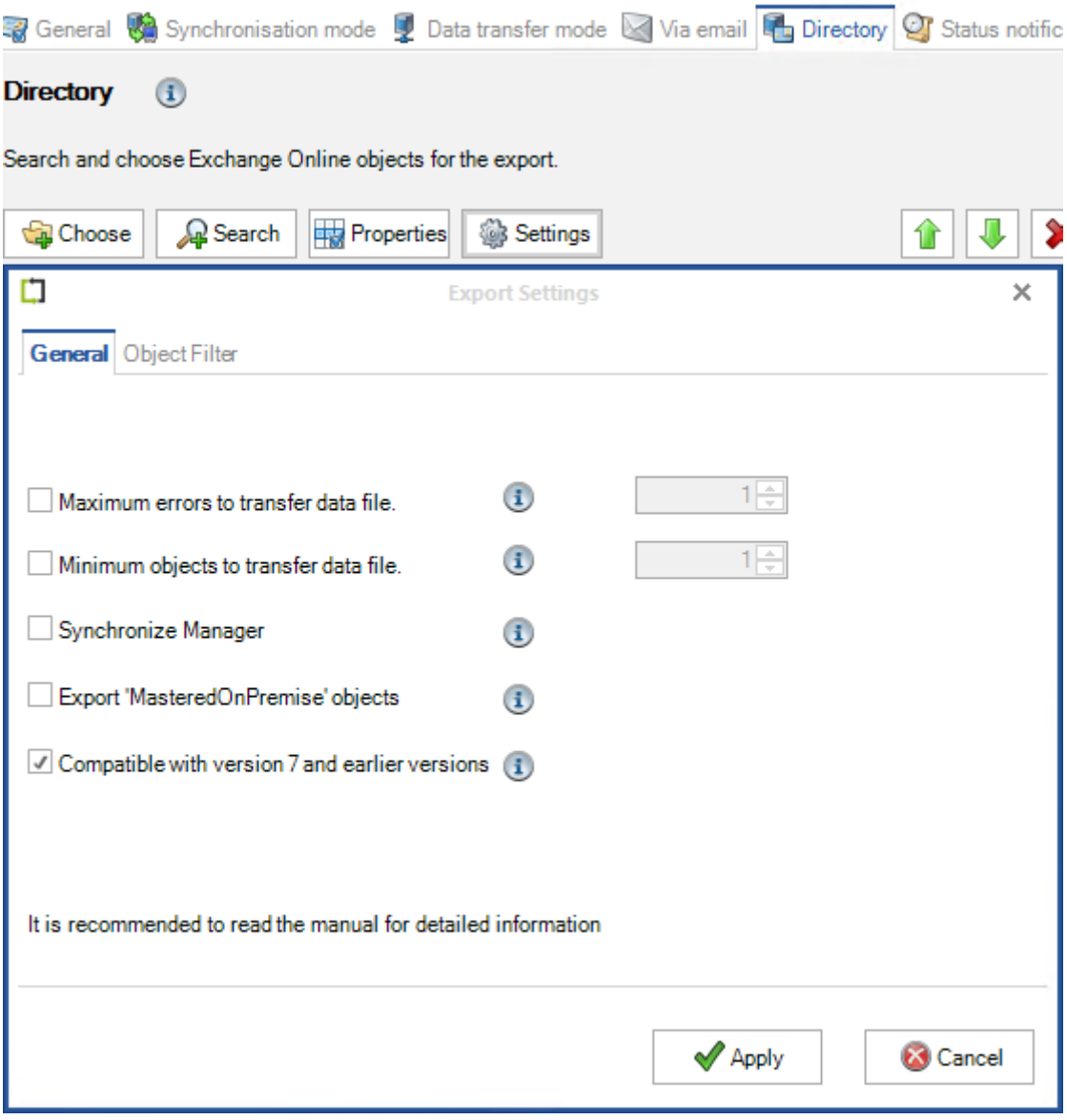


Import issue after upgrade from GALsync 7 or earlier to GALsync 8

During the initial import policy run, GALsync cannot detect existing objects that were previously synchronized with GALsync version 7 or earlier versions, if the original objects are exported from Exchange Online with a current GALsync 8, so that the existing imported mail contacts will be deleted and re-created.

Solution by default for existing export policies from Exchange Online

To prevent this behavior, there is the **Compatible with version 7 and earlier versions** option in the **Export Settings**, which is activated by default for existing export policies of GALsync version 7 and earlier versions, which export from Exchange Online.



Compatible with version 7 and earlier versions (Exchange Online only)

In GALsync version 7, when exporting from an Exchange Online tenant, the **ExternalEmailAddress / targetAddress** was set as the primary SMTP address in the **EmailAddresses / proxyAddresses**. This can cause problems, if the **ExternalEmailAddress** and the primary SMTP address are different.

As of GALsync version 8, the primary SMTP address of the **EmailAddresses** will no longer be changed by default, when a new policy is created.

If the **Compatible with version 7 and earlier versions** option is enabled, GALsync will change the primary SMTP address of the **EmailAddresses** to the **ExternalEmailAddress** like GALsync version 7.

In case of an upgrade from a GALsync version 7 and earlier to a current GALsync version 8, the **Compatible with version 7 and earlier versions** option is enabled.

Office 365 Exchange Online	
Name	John_Doe
EmailAddresses	SMTP:john.doe@partnerdemo.de
ExternalEmailAddress	SMTP:john.doe@contoso.com
PrimarySmtpAddress	john.doe@partnerdemo.de

GALsync Data File Version 8 Compatible with version 7 and earlier versions option is enabled	
name	John_Doe
proxyAddresses	smtp:john.doe@partnerdemo.de SMTP:john.doe@contoso.com
targetAddress	SMTP:john.doe@contoso.com

Migration steps for synchronization of multiple Exchange environments

Here is a description of the migration steps necessary (for example when some Exchange environments of a hub-spoke synchronization topology) when exporting from Exchange Online, and the import policies have the **Import only primary SMTP address** option of the **Import Settings** enabled.

Condition: All environments use GALsync 7

Step 1: Not all environments upgraded directly to GALsync 8

Step 2: All environments have upgraded to GALsync 8

Step 3: 'Compatible with version 7 and earlier versions' option can be disabled

Condition: All environments use GALsync 7

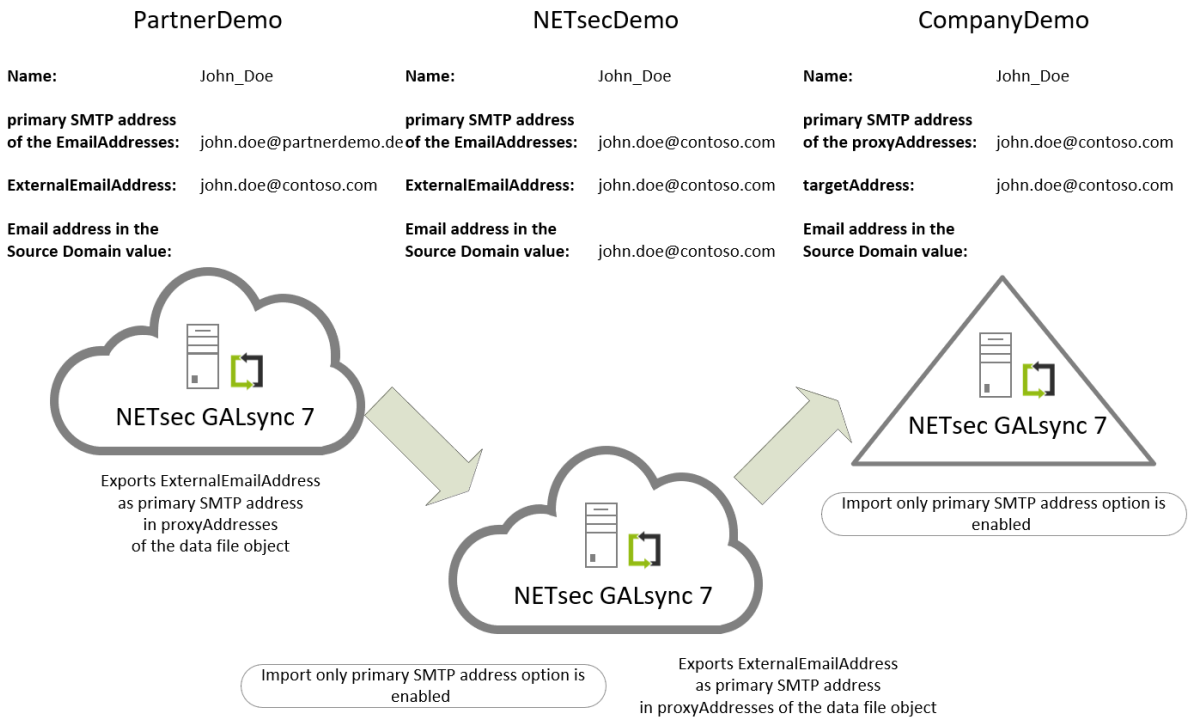
A synchronization with GALsync 7 between the three Exchange environments and the **John_Doe** object is exported from Exchange Online of the PartnerDemo environment as before.

PartnerDemo environment

The John_Doe object has **john.doe@partnerdemo.de** as primary SMTP address of the **EmailAddresses** and **john.doe@contoso.com** as **ExternalEmailAddress**.

GALsync 7 will add **john.doe@contoso.com** as primary SMTP address to the **proxyAddresses** of the object in the data file during the export.

john.doe@partnerdemo.de will be exported as secondary smtp address of the proxyAddresses.



NETsecDemo environment

The **Import only primary SMTP address** option of the **Import Settings** is enabled, so that GALsync 7 will only import the **john.doe@contoso.com** as primary SMTP address to the **proxyAddresses**,
but not the secondary smtp address **john.doe@partnerdemo.de**.

The **targetAddress** is also **john.doe@contoso.com** of the imported contact.

An Export policy exports the **John_Doe** contact for the CompanyDemo environment.

CompanyDemo environment

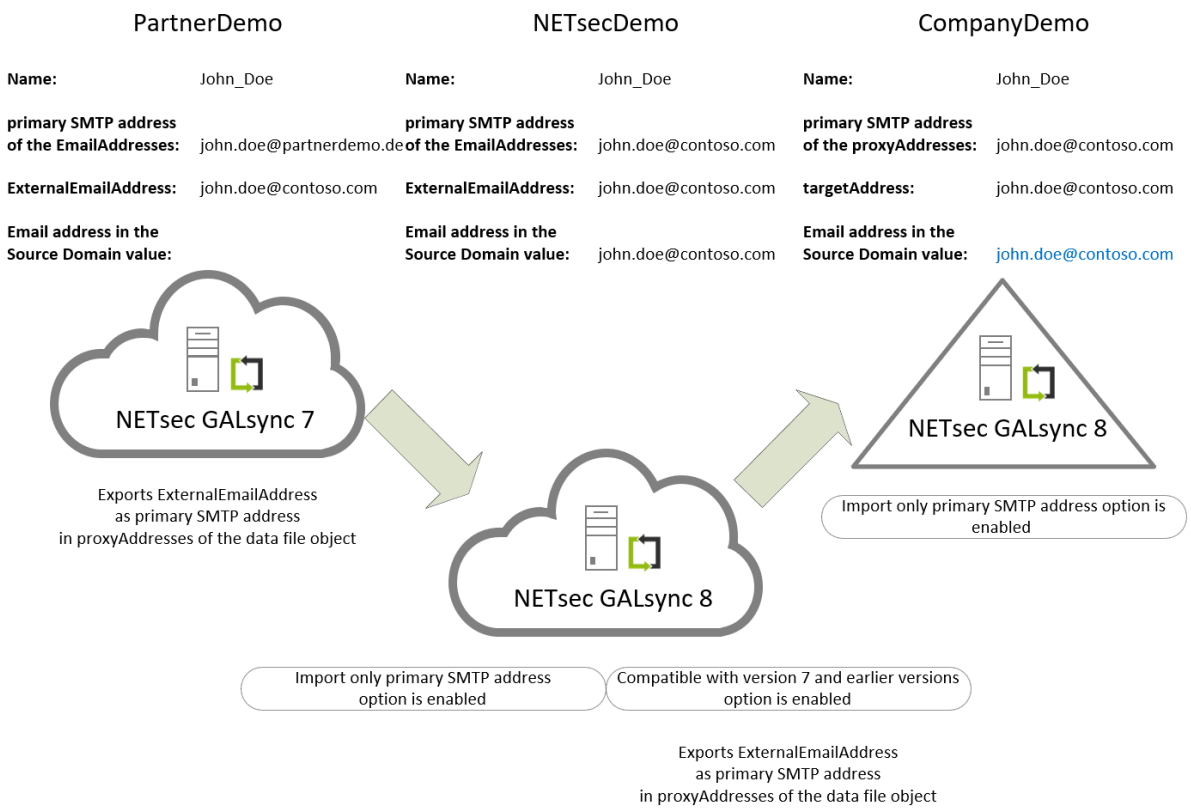
The **Import only primary SMTP address** option of the **Import Settings** is enabled, so that GALsync 7 will import the **john.doe@contoso.com** as primary SMTP address to the **proxyAddresses** and as **targetAddress**.

Step 1: Not all environments upgraded directly to GALsync 8

The PartnerDemo environment uses GALsync 7, but the two other environments have upgraded to GALsync 8.

PartnerDemo environment

GALsync 7 will export the **John_Doe** object from Exchange Online as before.



NETsecDemo environment

GALsync 8 will use the primary SMTP address **john.doe@contoso.com** of the **John_Doe** data file object for searching existing objects in the NETsecDemo environment. GALsync will find the corresponding **John_Doe** contact and will update it if it is necessary.

GALsync 8 has enabled the **Compatible with version 7 and earlier versions** option in the **Export Settings**, so that the existing export policy exports the **John_Doe** contact for the CompanyDemo environment as before.

CompanyDemo environment

GALsync 8 will use the primary SMTP address **john.doe@contoso.com** of the **John_Doe** data file object for searching existing objects in the CompanyDemo environment.

GALsync will find the corresponding **John_Doe** contact and will update it. The SMTP address **john.doe@contoso.com** will be added to the Source Domain value.

Step 2: All environments have upgraded to GALsync 8

The PartnerDemo environment also upgrade to GALsync 8, so all environments have GALsync 8 for the first time.

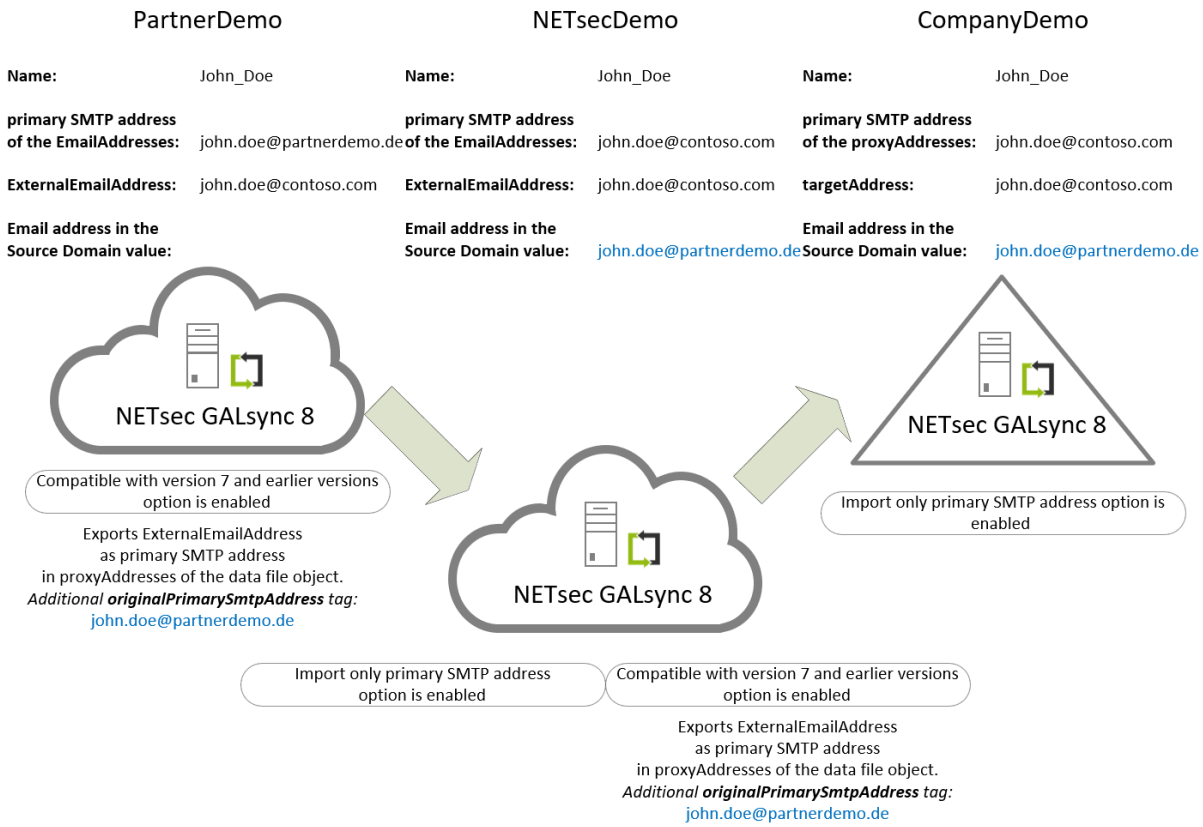
PartnerDemo environment

GALsync 8 has enabled the **Compatible with version 7 and earlier versions** option in the **Export Settings**, so that the existing export policy exports the **John_Doe** object for the NETsecDemo environment.

GALsync 8 will add **john.doe@contoso.com** as primary SMTP address to the **proxyAddresses** of the object in the data file during the export.

john.doe@partnerdemo.de will be exported as secondary smtp address of the proxyAddresses.

GALsync 8 will add the **originalPrimarySmtpAddress** tag to the data file object with the **john.doe@partnerdemo.de** value, which is the primary SMTP address of the source object.



NETsecDemo environment

GALsync 8 will use the primary SMTP address **john.doe@contoso.com** of the **John_Doe** data file object for searching existing objects in the NETsecDemo environment.

GALsync will find the corresponding **John_Doe** contact and will update the email address in the Source Domain value with **john.doe@partnerdemo.de** of the **originalPrimarySmtpAddress** tag of the data file object.

GALsync 8 has enabled the **Compatible with version 7 and earlier versions** option in the **Export Settings**, so that the existing export policy exports the **John_Doe** contact for the CompanyDemo environment like before, except that additionally now adds the **originalPrimarySmtpAddress** tag to the data file object with the value **john.doe@partnerdemo.de**, which is the email address of the Source Domain value.

CompanyDemo environment

GALsync 8 will use the primary SMTP address **john.doe@contoso.com** of the **John_Doe** data file object for searching existing objects in the CompanyDemo environment.

GALsync will find the corresponding **John_Doe** contact and will update the email address in the Source Domain value with **john.doe@partnerdemo.de** of the **originalPrimarySmtpAddress** tag of the data file object.

Step 3: 'Compatible with version 7 and earlier versions' option can be disabled

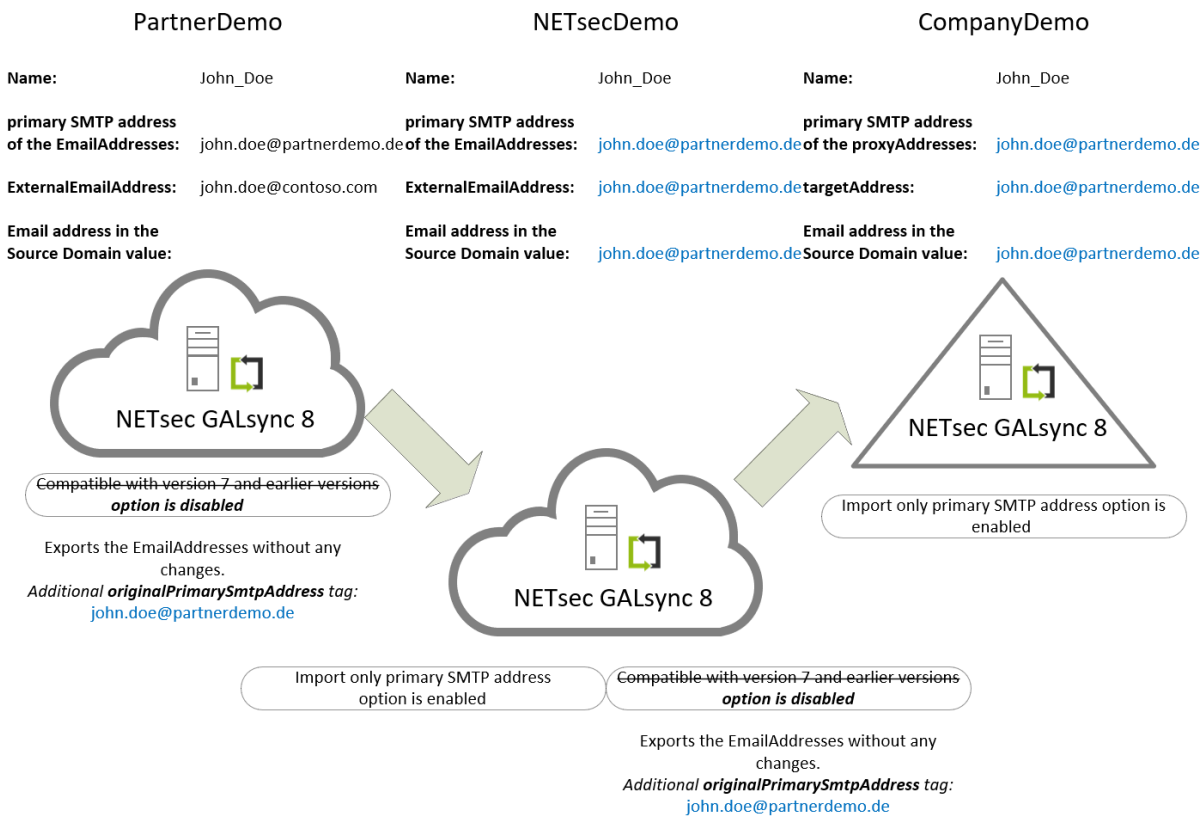
After the first complete synchronization between all involved Exchange environments, the **Compatible with version 7 and earlier versions** option in the **Export Settings** of the export policies from Exchange Online can be disabled, because the original primary SMTP address of the source objects is synchronized as email in the Source Domain value in each of the corresponding contacts synchronized by GALsync.

Please note, after disabling the option during importing on your partner's side, GALsync will modify existing objects that are being synchronized in order to possibly adjust the primary SMTP address and the value of the source domain property.

PartnerDemo environment

The **Compatible with version 7 and earlier versions** option in the **Export Settings** is disabled, so the existing export policy exports the **John_Doe** object for the NETsecDemo environment without changing the primary SMTP address for **proxyAddresses** in the data file object.

The primary SMTP address is now **john.doe@partnerdemo.de** in the **proxyAddresses**.



NETsecDemo environment

GALsync 8 will use the primary SMTP address **john.doe@partnerdemo.de** of the **John_Doe** data file object for searching existing objects in the NETsecDemo environment.

The corresponding **John_Doe** contact has only **john.doe@contoso.com** as smtp address in the **EmailAdresses** and as **ExternalEmailAddress**, but GALsync 8 will also look at the email address of the Source Domain value, which will match.

GALsync will update the **EmailAdresses** and **ExternalEmailAddress** of corresponding **John_Doe** contact.

The **Compatible with version 7 and earlier versions** option in the **Export Settings** is disabled, so that the existing export policy exports the **John_Doe** contact for the CompanyDemo environment without changing the primary SMTP address for proxyAddress in the data file object.

john.doe@partnerdemo.de is now the primary SMTP address in the **proxyAddresses** and the **targetAddress** in the data file object.

CompanyDemo environment

GALsync 8 will use the primary SMTP address **john.doe@partnerdemo.de** of the **John_Doe** data file object for searching existing objects in the CompanyDemo environment.

The corresponding **John_Doe** contact has only **john.doe@contoso.com** as a smtp address in the **EmailAddresses** and as an **ExternalEmailAddress**, but GALsync 8 will also look at the email address of the Source Domain value, which will match.

GALsync will update the **EmailAddresses** and **ExternalEmailAddress** of corresponding **John_Doe** contact.

Conclusion

After the complete synchronization between all involved Exchange environments, everything will be updated and work like expected.

Downgrading

Should you want to perform a downgrade to your previous version of GALsync, the changes you make in your new installation will not be reflected in the previous, older version. For downgrading, uninstall the new version, restore the backup of the GALsync program folder and **C:\ProgramData** folder and run your previous installation file.

Licensing

For our customers with valid support the new version will be free of charge.

If you do not have valid support, you can keep using your GALsync version. If you install a newer version of GALsync, you have to buy a new license.

If you run GALsync version 8.7 without a license you will not be able to export or import more than 100 objects for up to 21 days!

If you run the contactSync module without a license you will be able to import contacts into maximum 20 mailboxes for up to 21 days!

If you have any licensing questions or queries, please feel free to contact our
GALsync Sales Team
by phone +49 2421 998 78 20
or via e-mail sales@netsec.de

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by phone +49 2421 998 78 16
or via e-mail support@netsec.de