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**VERSION: 2020 - 01** 



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## 1. Introduction

This document will demonstrate how to set up ADFS on the customer side as well as configure their users for ADFS both manually and automatically.



**Note:** Each subtitle under the chapters of this document are steps in the ADFS configuration process and should be followed in sequential order.



## 2. Setting up ADFS on the Customer's Side

#### You will learn:

- 1. How to set up ADFS on the customer's side.
- 2. How to set up permitted users manually.
- 3. How to extract permitted users automatically from the customer's active directory.

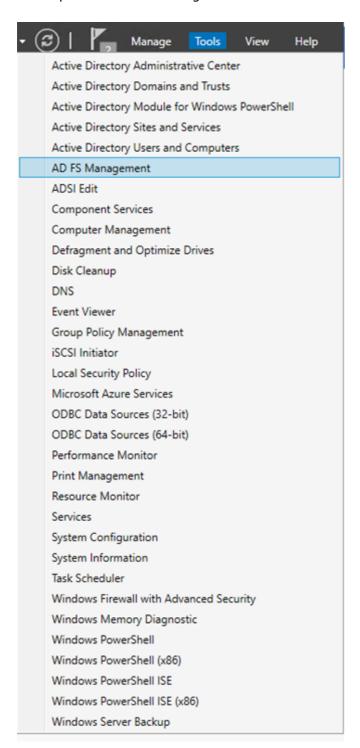
## 2.1 Installing a suitable ADFS

ADFS will first need to be installed and configured on the customer's server; once this has been establish, a certificate should be obtained. For instructions on installing the most suitable ADFS, please find the relevant details on the following Microsoft link: <a href="https://docs.microsoft.com/en-us/windows-server/identity/active-directory-federation-services">https://docs.microsoft.com/en-us/windows-server/identity/active-directory-federation-services</a>



## 2.2 Adding a Relying Party Trust

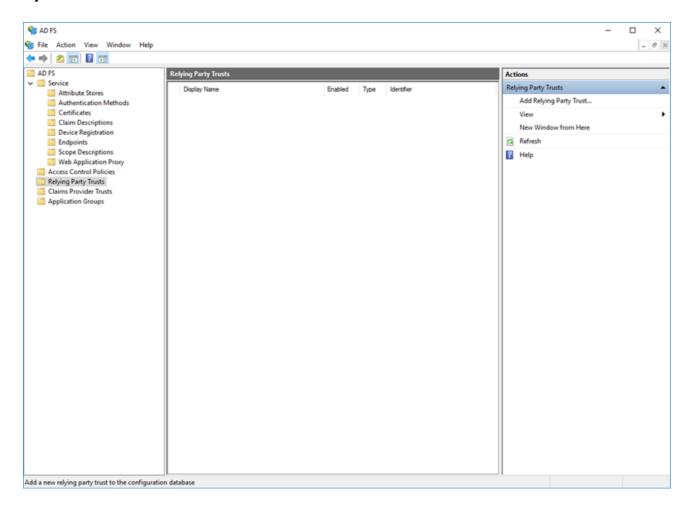
Open the 'Server Manager' program, and on the ribbon menu, select Tools > AD FS Management - this will open the AD FS dialog.







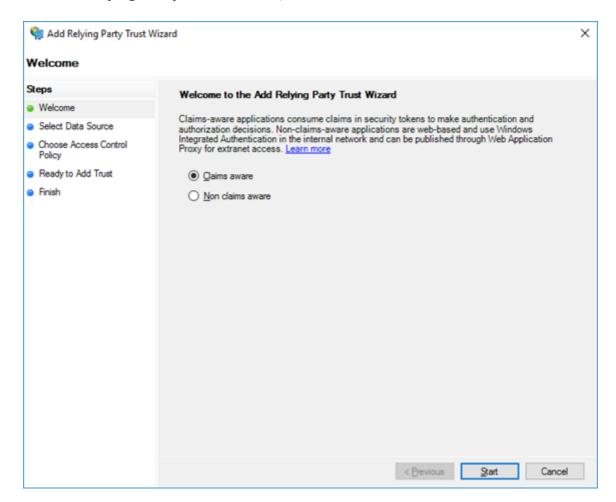
Once the AD FS dialog has opened, select **'Relying Party Trusts'** (in the left-hand file column) in order to allow this to work with Therefore  $^{\text{TM}}$ . In the right-hand **'Actions'** column, select **'Add Relying Party Trust'**.





## 2.3 Add Relying Party Trust Wizard

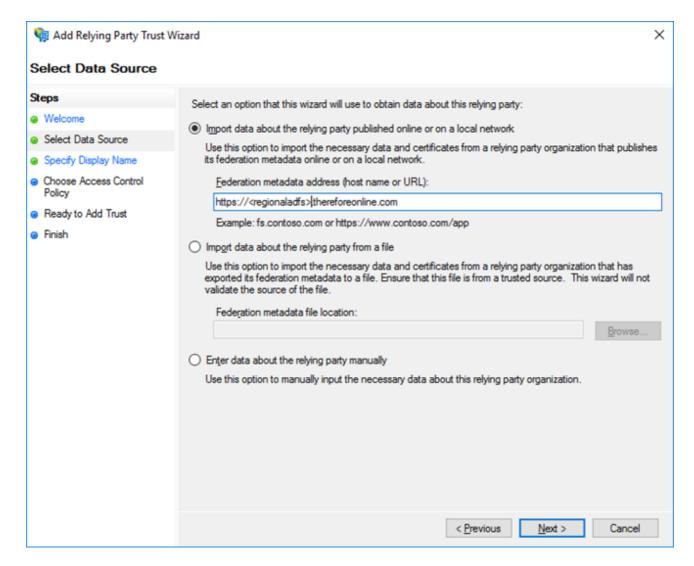
In the 'Add Relying Party Trust Wizard', select 'Claims Aware' and then 'Start'.



## 2.4 Selecting Data Source

In the next set of options, select **'Import data about the relying party published online or on a network'**, and enter the required URL (based on the user's region). Click **'Next'** once this step has been completed.





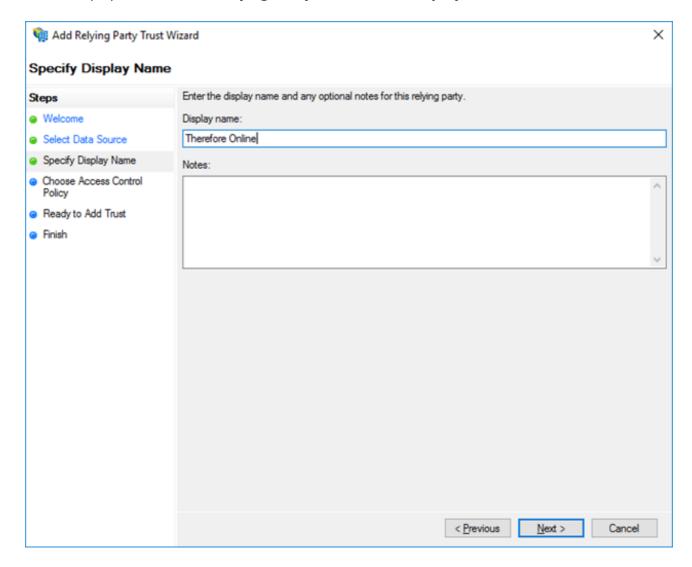


**Note:** The Regional ADFS information URL that is entered in the 'Federation metadata address' field needs to be requested from Therefore Support. Please open a support request (include the Customer ID and tenant name for the customer that you are setting up ADFS for). In the request just write that you need the Regional ADFS information URL for setting up ADFS for Customer XYZ. You must have this URL before you can continue with the next step.



## 2.5 Specifying Display Name

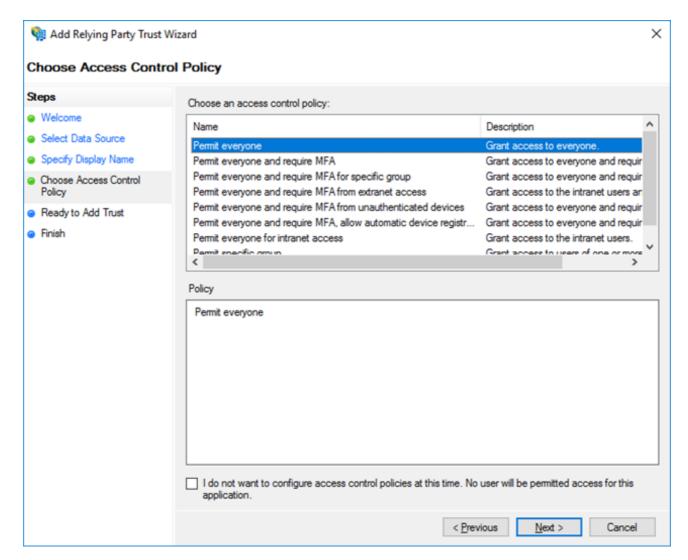
Enter the display name for the 'Relying Party Trust' in the 'Display name' field.





#### 2.6 Choosing Access Control Policies

It is then possible to select the access control policies, from the available list (e.g. Permit everyone, Permit everyone and require MFA, etc.) and click 'Next' when completed.



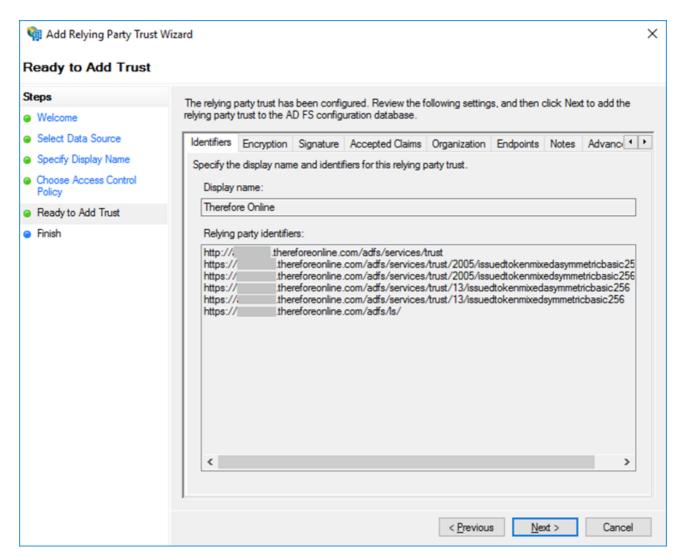
The customer should select the best-fit policy for their respective system. A list of available access control policies can be found in the following link:

https://docs.microsoft.com/en-us/windows-server/identity/ad-fs/operations/access-control-policies-in-ad-fs



## 2.7 Finalizing the Addition of the Relying Party Trust

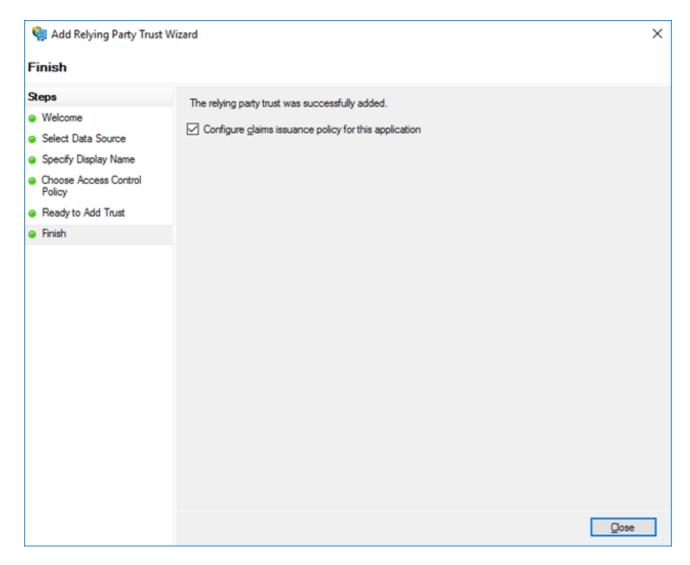
Before finalizing the addition of the relying party trust, the dialog will display several tabs that will indicate the view of the user's configuration. Click 'Next' to proceed to the final dialog.





# 2.8 Configuring Claims Insurance Policy

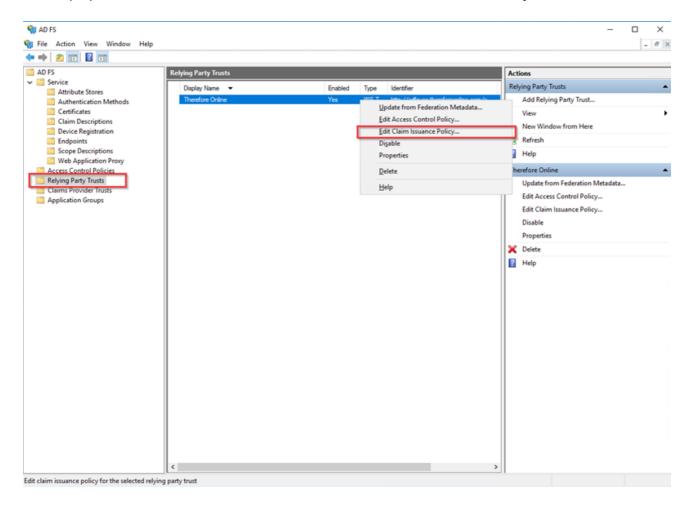
When the relying party trust has successfully been added, keep the check box, 'Configure claims insurance policy for the application' ticked. Click 'Close' once completed.





## 2.9 Editing Claim Insurance Policy

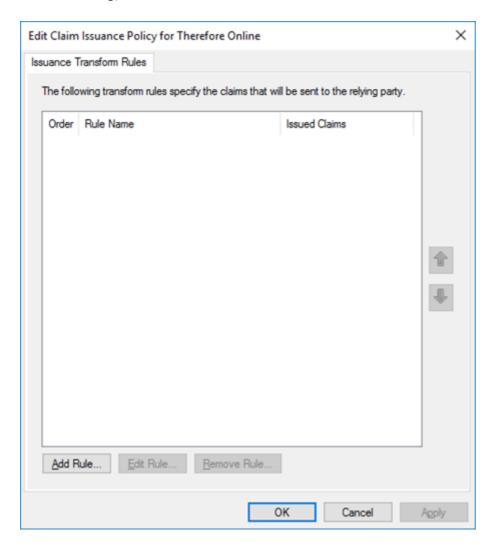
Once completed, return to the **AD FS** dialogue and under the **'Relying Party Trusts'** folder, right-click on the display name of the new trust and select **'Edit Claim Insurance Policy'**.





# 2.10 Adding a Rule

In the new dialog, click 'Add Rule'.

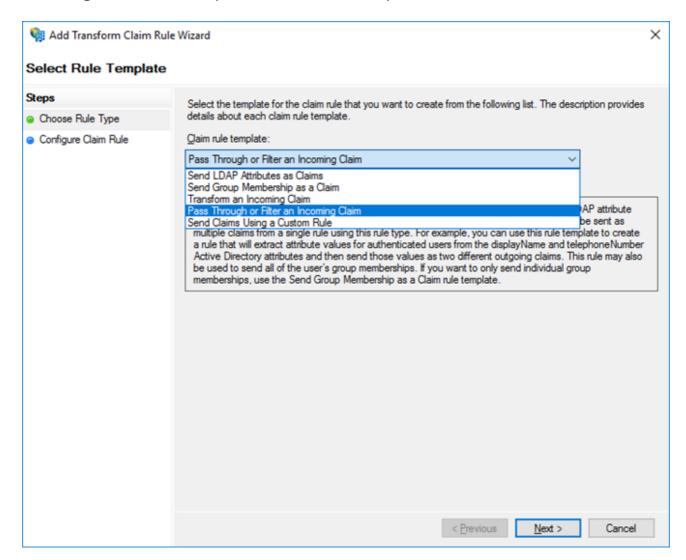




#### 2.11 Choosing a Rule Type

#### 2.11.1 Pass Through of Filter an Incoming Claim

As part of the first step in adding a rule, select the **'Claim rule template'** as **'Pass Through or Filer an Incoming Claim'** from the options available in the drop-down list.

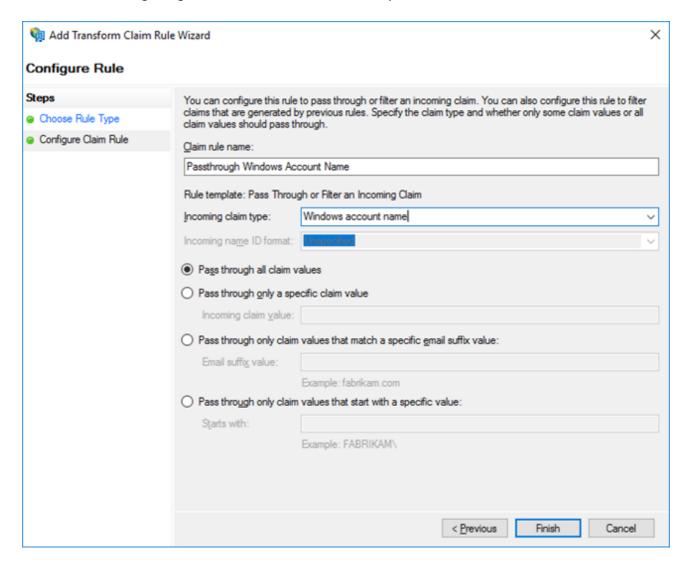




#### 2.11.1.1 Configuring a Claim Rule

Once the Claim Rule template has been set, add each of the following **'Incoming claim types'** to ADFS by repeating the process with the same template: **'Windows Account Name'** and **'UPN'**.

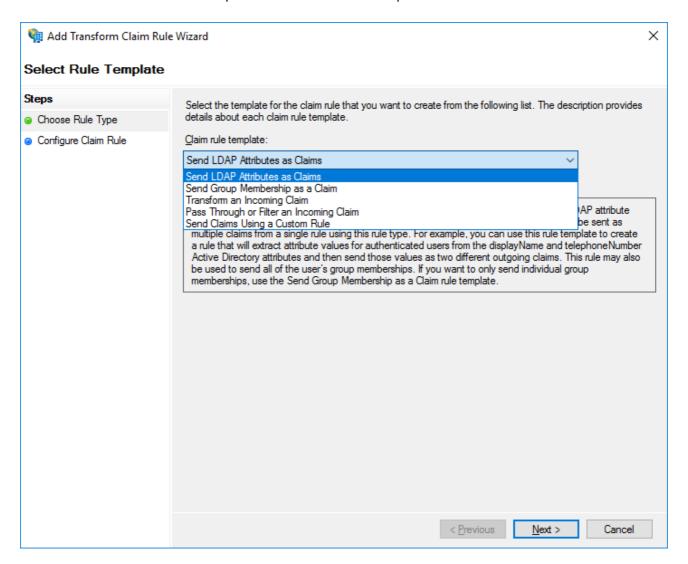
For each configuration of the claim rule, ensure to name each Incoming claim rule uniquely and mark the option of 'Pass through all claim values'. It is imperative for each claim rule to be included in order to allow for Single Sign-on and workflow functionality.





#### 2.11.2 Send LDAP Attributes as Claims

As part of the second step in adding a rule, select the **'Claim rule template'** as **'Send LDAP Attributes as Claims'** from the options available in the drop-down list.

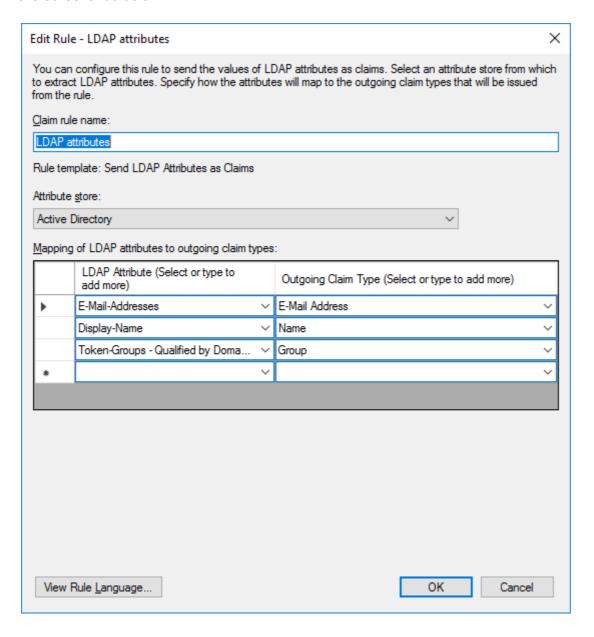




#### 2.11.2.1 Configuring a Claim Rule

Once the Claim Rule template has been set, add each of the following **'LDAP attributes'** to the mapping list: "E-Mail-Addresses", "Display-Name", "Token-Groups - Qualified by Domain Name".

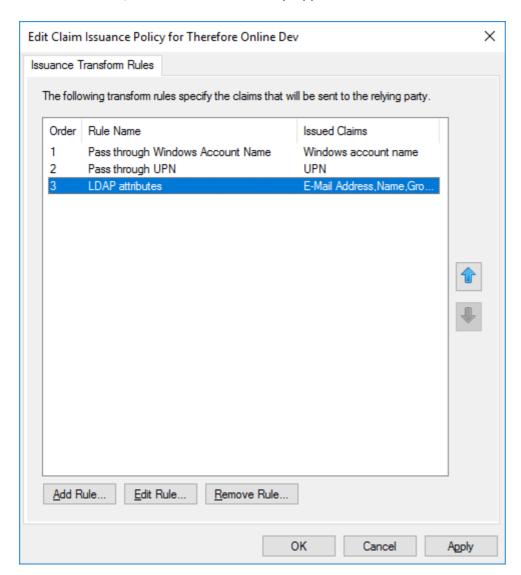
Ensure the **Attribute store** is set to **Active Directory** and the **Outgoing Claim Type** is set as seen in the screenshot below.





#### 2.12 Setting all the Claim Rules

Once all the claim rules have been set, they will appear in the **'Edit Claim Insurance Policy for Therefore Online'**; the order in which they appear does not matter.



# 2.13 Setting up ADFS configuration on Therefore Server side

Before you can continue with the configuration you need to request Therefore support (just open a ticket or reply to the previous ticket) to set up the ADFS configuration on the Therefore Server side (this can only be done by Therefore support, Canon technicians and customers do not have access to the Therefore server).

In the request mention that the customer side ADFS configuration is done and you are waiting for Therefore support to finish the server side configuration. Please also include the following information in the request:

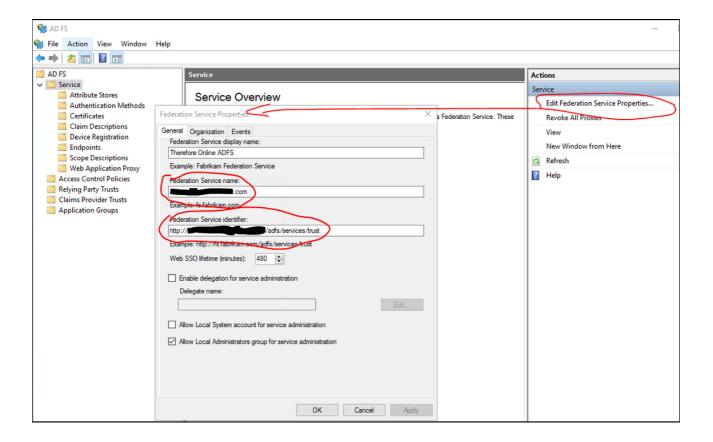




- 1. Tenant name
- 2. Domain name that will be used for Single Sign-On
- 3. Federation Service name
- 4. Federation Service identifier
- 5. Federation metadata document (may not be needed, see important note below)



**Note:** You cannot do the next configuration steps before Therefore support confirms the setup is done on Therefore Server side and sends you the details for the ADFS connection.



#### **Setting up ADFS on the Customer's Side**





#### Note:

It is highly recommended that the federation metadata document for the customer ADFS environment is reachable via the internet. To check if this is the case you can use the following Federation Metadata Explorer from Microsoft: <a href="https://adfshelp.microsoft.com/MetadataExplorer/GetFederationMetadata">https://adfshelp.microsoft.com/MetadataExplorer/GetFederationMetadata</a>. By making sure that the federation metadata document is available via the internet, we can monitor changes that happen on the customer side (like certificate updates), and automatically change ADFS settings accordingly on Therefore Server side.

If for some reason it is not possible to make the document available, then you have to export and email the FederationMetadata.xml to Therefore support so we can import data about your claims providers from this file into our ADFS server.

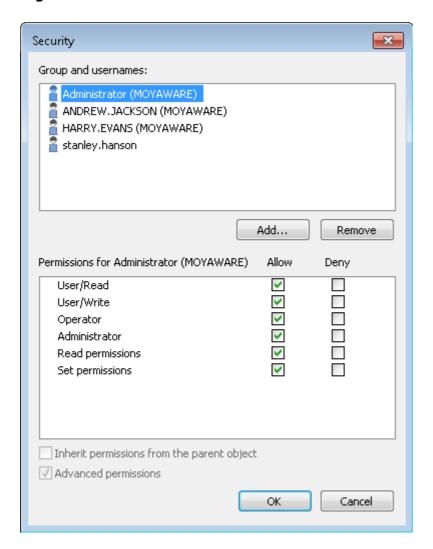
Furthermore, if this document is not reachable via the internet the customer will need to let us know of any certificate changes in their environment and send us their new public key for the changed certificates which we need to manually update on the Therefore Server side. For more information about ADFS certificates please check the following link: <a href="https://docs.microsoft.com/en-us/windows-server/identity/ad-fs/operations/configure-ts-td-certs-ad-fs">https://docs.microsoft.com/en-us/windows-server/identity/ad-fs/operations/configure-ts-td-certs-ad-fs</a>. To avoid this situation, always try to make the federation metadata document available for download via the internet.



#### 2.14 Connecting to Therefore™

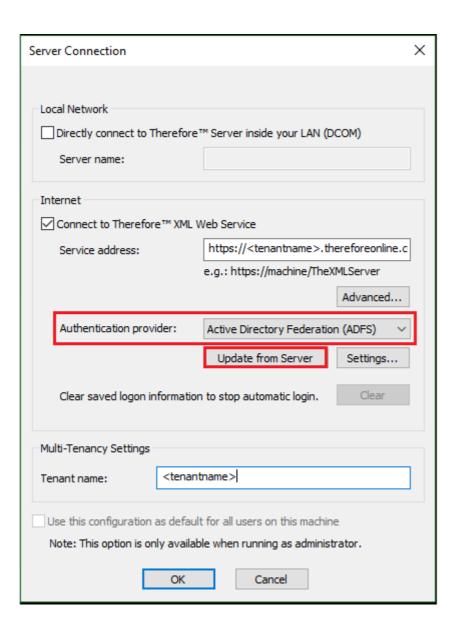


Note: For details on how to add SAML users, please read the section, 'Configuring Users for ADFS' for automatic and manual configuration. User permissions will have to be set (via the 'Security' option in the Therefore™ Solution Designer) before you can continue to the next step in order to grant access to Therefore™ Online, as demonstrated in the dialog below:



Once the rules have been set the users will be able to log in via ADFS. When connecting to Therefore™ through an installed client application, the connection settings need to be configured. For Authentication provider, select the option for "Active Directory Federation (ADFS)", then click "Update from Server". The settings will be populated automatically.



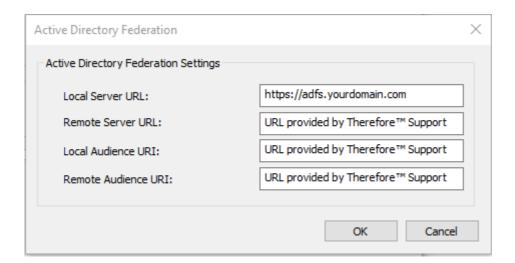




#### **Setting up ADFS on the Customer's Side**



**Note:** If you are using a Therefore<sup>™</sup> Online v22 or older client the button "Update from Server" will not be available. In this case click on Settings and populate the fields with the correct links (these are the links provided by Therefore Support).





# 3. Configuring Users for ADFS

#### You will learn:

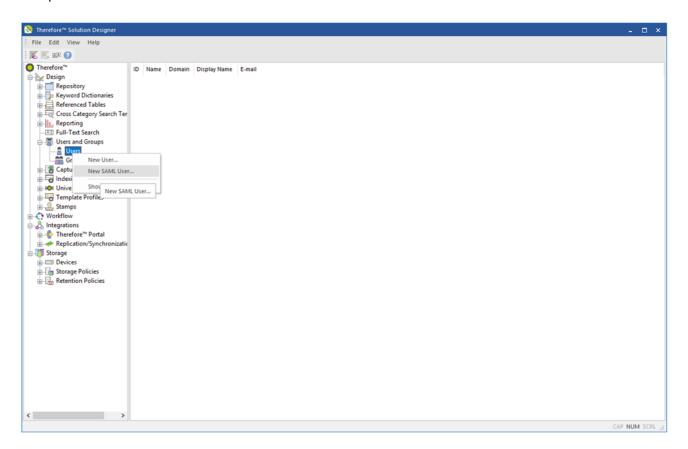
- 1. How to manually create users with permissions in ADFS.
- 2. How to automatically add users with ADFS permission.

## 3.1 Manual Configuration

#### 3.1.1 Selecting SAML User

Once ADFS has been configured, users can be manually included in the permission settings via the **Therefore<sup>TM</sup> Solution Designer**.

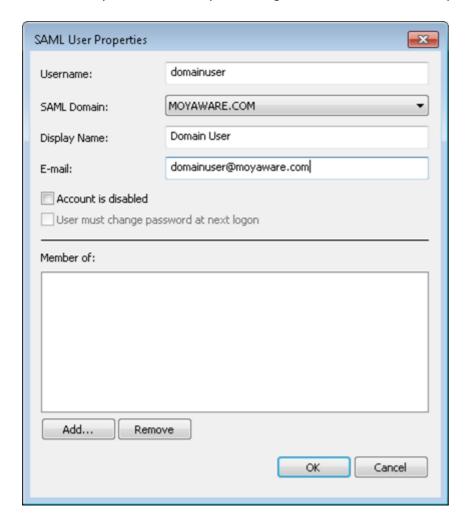
Under the **Design > User and Groups** option, right-click on **'User'** and select **'New SAML User'** from the drop-down list.





#### 3.1.2 Entering Usernames

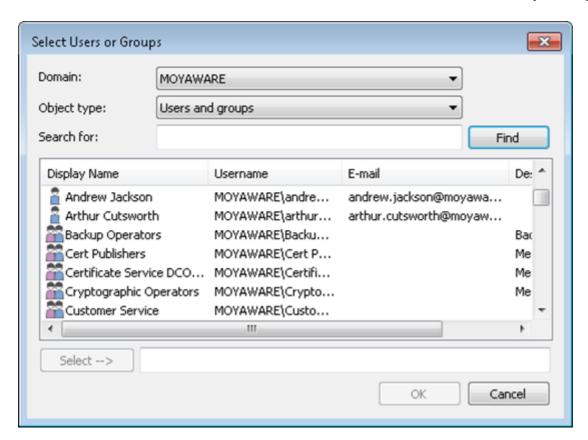
In the **'SAML User Properties'** dialog, enter the Username(s) of the user(s) to match those in the Active Directory. Each user may also be given Therefore<sup>TM</sup> access permissions in Therefore<sup>TM</sup> too.





#### 3.1.3 Selecting Users or Groups

SAML domains can also be listed in Therefore™ under the **Select Users or Groups** dialog.

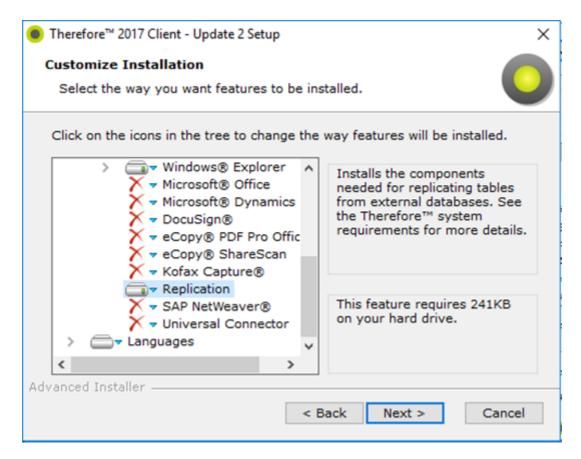


# 3.2 Automatic Configuration



#### 3.2.1 Selecting Replication

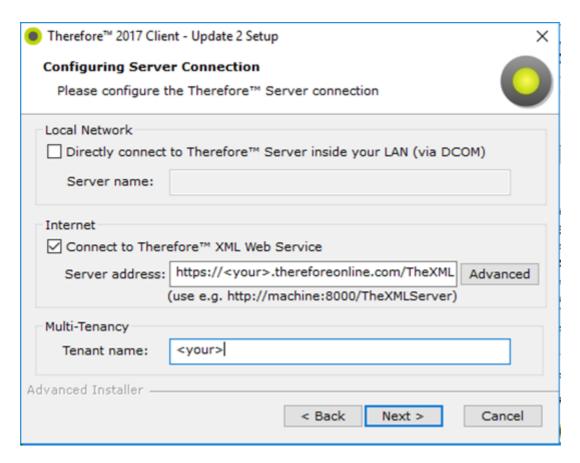
Ensure that **Replication** (under **Therefore™ Integrate**) has been selected. Languages can also be selected based on the user's preferences.





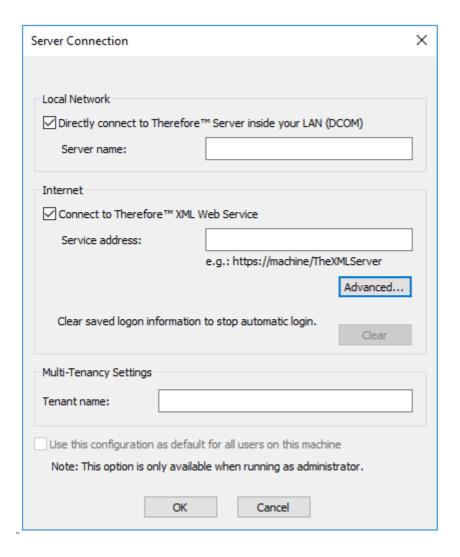
#### 3.2.2 Connecting to Therefore™ XML Web Service

While in the Setup wizard, ensure to select the checkbox **Connect to Therefore™ XML Web Service** and enter the URL in order to connect to Therefore™ Online.



This can also be set up in the **Server Connection** settings of the **Therefore™ Solution Designer**.

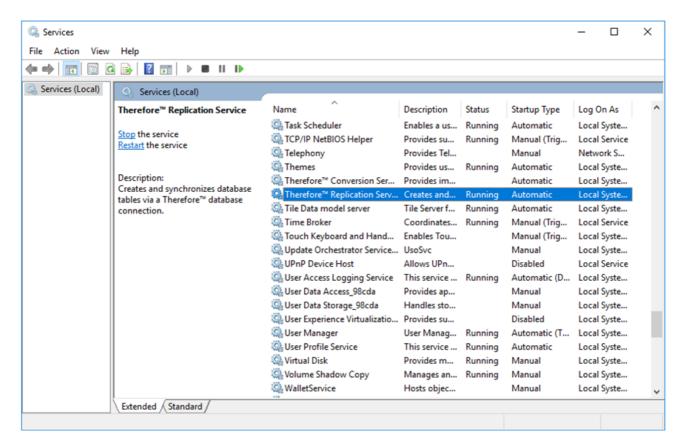






## 3.2.3 Setting Therefore™ Replication Service to Automatic

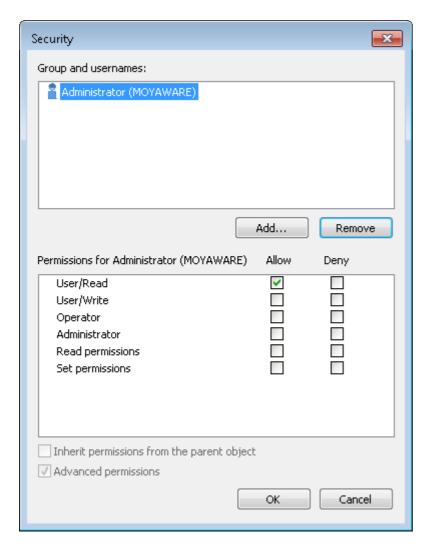
Once the setup has been completed, go to the 'Services' application on Windows and set the **Therefore**  $^{\text{TM}}$  **Replication Service** (from the list) to automatic.





#### 3.2.4 Setting Security Permissions

Security permissions can then be set for the replicated user by right clicking the Therefore  $^{\text{TM}}$  logo at the top of the left-hand pane (and selecting **'Security'**).



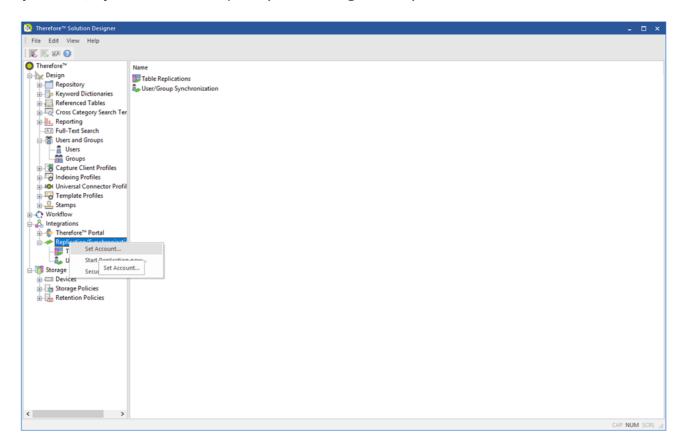


Note: It is not possible to replicate "Domain Users" and "Domain Admins" groups.



#### 3.2.5 Setting an Account

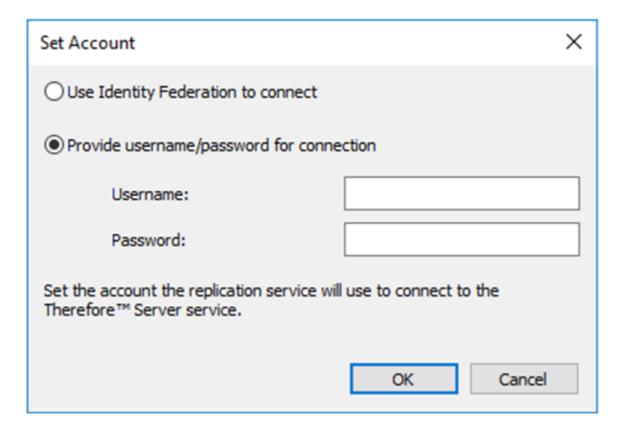
Return to **Therefore™ Solution Designer** (running as 'Administrator') and right-click on the **'Replication/Synchronization'** option (under **'Integrations'**) and select **Set Account**.





#### 3.2.6 Providing a Username and Password for Connection

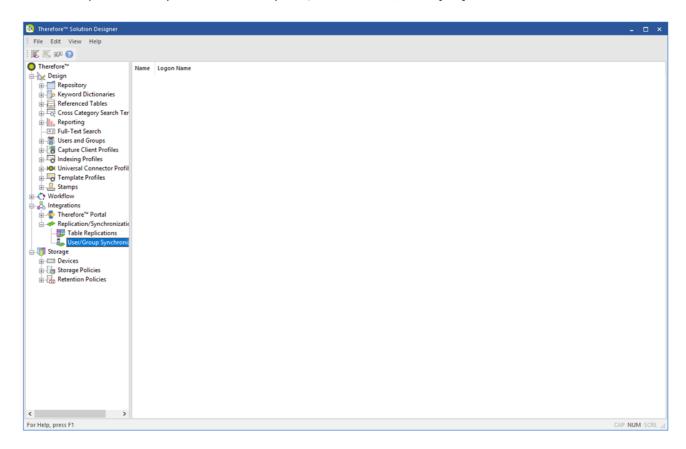
Select the **Provide username/password for connection** option and enter details pertaining to the user.





#### 3.2.7 User/Group Synchronization

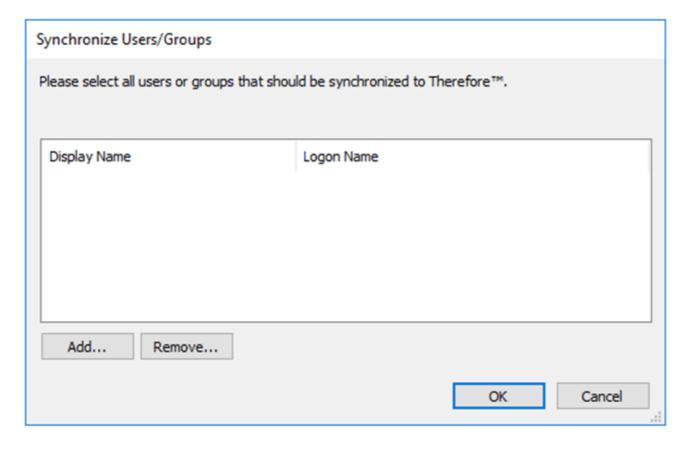
Under the Replications/Synchronization option, select **User/Group Synchronization**.





## 3.2.8 Selecting Users or Groups

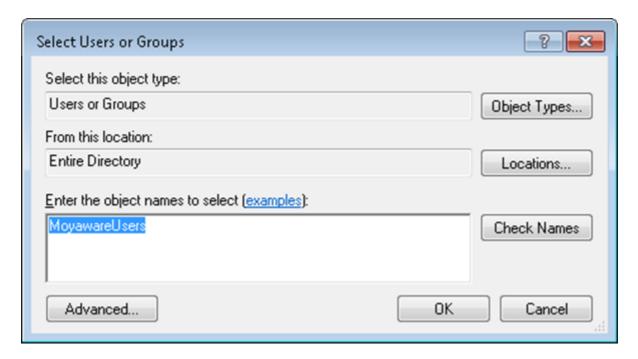
In the **Select Users or Groups** dialog, click the **Add** button.





#### 3.2.9 Entering Group Names

Enter the **Group Names** to select from the object type and location.





## 3.2.10 Synchronizing Users / Groups from the List

Select the Users that need to be synchronized from the displayed list in the dialog.

