

## One Identity Manager 8.1.4

# LDAP Connector for CA Top Secret Reference Guide

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#### Legend

**WARNING:** A WARNING icon highlights a potential risk of bodily injury or property damage, for which industry-standard safety precautions are advised. This icon is often associated with electrical hazards related to hardware.

**CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

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# Initializing and configuring the LDAP connector for CA Top Secret

This document describes how to initialize and configure the Top Secret LDAP connector into an existing One Identity Manager system. This allows the One Identity Manager system to access, read, and update data stored in a Top Secret database on an IBM mainframe.

#### Detailed information about this topic

- Prerequisites on page 4
- Platform support on page 5
- Operating constraints on page 5
- How to initialize and configure the Top Secret LDAP connector on page 5
- Domain filter setting on page 7
- System variables on page 6
- User mapping information on page 8
- Group mapping information on page 12
- Profile mapping information on page 17
- Top Secret attributes on page 23

### **Prerequisites**

- The IBM mainframe must have CA LDAP Server for z/OS installed and configured.
- An LDAP service account must be created on your Top Secret server that has the appropriate permissions to administer users and groups on this platform. The account must be given sufficient privileges so that the profiles being administered fall within the scope of the Admin user.

NOTE: Before attempting to connect to the CA LDAP Server with the Top Secret LDAP connector, first check that the LDAP server is running correctly. This can be tested with



any LDAP browser, for example, the LDP.exe tool from Microsoft. For more information, see your LDAP browser documentation.

### **Platform support**

The Top Secret LDAP connector has been verified for synchronization against the IBM mainframe running CA Top Secret r16.0 or later.

### **Operating constraints**

- There is an eight-character limit for user and group names on Top Secret.
- There is an eight-character limit for passwords on Top Secret.

### How to initialize and configure the Top Secret LDAP connector

NOTE: The following sequence describes how you configure a synchronization project if the Synchronization Editor is in expert mode.

#### To set up initial synchronization project for Top Secret

- 1. Start the Synchronization Editor and log in.
- From the start page, select Start a new synchronization project. This starts the Synchronization Editor's project wizard.
- 3. On the **Choose target system** page, select **Top Secret LDAP Connector**.
- 4. On the **System access** page, click **Next**.
- 5. On the **Create system connection** page, select **Create new system connection**.
- 6. On the system connection wizard start page, click **Next**.
- 7. On the **Network** page:
  - a. In the **Server** field, enter the DNS name or IP address of your mainframe server.
  - b. In the **Port** field, enter the port number.
  - c. Click the **Test** button to make sure the server is accessible.
  - d. CA LDAP Server for z/OS supports LDAP v3. Enter the number 3 in the



#### Protocol version.

- e. If SSL is to be used, check the **Use SSL** box.
- 8. On the Authentication page:
  - a. Set the Authentication method to Basic.
  - b. In the **Credentials** section, enter the full DN and password of the administrator account on your Top Secret system.
  - c. Click **Test** to check that the credentials are valid.

The schema is loaded from the Top Secret system.

- 9. Ignore the **Define virtual classes** page. Click Next.
- 10. On the **Search options** page:
  - a. In the **Base DN** drop-down, and select the correct base DN for your system.
  - b. Ignore the **Use partitioned search** check box.
- 11. Ignore the Modification capabilities page. Click Next.
- 12. Ignore the **Auxiliary class assignment** page. Click **Next**.
- 13. Ignore the **System attributes** page. Click **Next**.
- 14. Ignore the Select dynamic group attributes page. Click Next.
- 15. Ignore the **Password settings** page. Click **Next**.
- 16. Click **Finish**.

This takes you back to the Synchronization Editor project wizard.

17. On the **One Identity Manager connection** page, enter the database connection data.

This Top Secret schema loads into your One Identity Manager system. Wait for this to complete.

- 18. On the Select project template page, select Create blank project.
- 19. On the **General** page, enter a display name for your synchronization project and set a scripting language if required.
- 20. Click Finish.
- 21. Select Activate project.

### **System variables**

The following system variables must be defined for the attribute mappings.



#### **Table 1: System variables**

Name	Value
IdentDomain	The name of your Top Secret domain: for example, TOPSECRET1
UserLocation	Parent DN of your Top Secret user container: for example, tssadmingrp=acids,host=topsecret1,o=mycompany,c=com
GroupLocation	Parent DN of your Top Secret group container: for example, tssadmingrp=groups,host=topsecret1,o=mycompany,c=com
ProfileLocation	Parent DN of your Top Secret profile container: for example, tssadmingrp=profiles,host=topsecret1,o=mycompany,c=com

For more detailed information about variables, see the *One Identity Manager Target System Synchronization Reference Guide*.

#### **Related topics**

- Domain filter setting on page 7
- User mapping information on page 8
- Group mapping information on page 12
- Profile mapping information on page 17

### **Domain filter setting**

A domain filter must be created to identify information that has been retrieved from the Top Secret database to keep it separate from other imported data.

#### To create a domain filter:

- 1. Update the One Identity Manager schema so that all entries are included.
  - a. In the Synchronization Editor, open your Top Secret project.
  - b. Select Configuration | One Identity Manager connection.
  - c. In the General section, click Update schema.
  - d. Click **Yes** in the next two dialogs.
  - e. Click **OK** when completed.
- 2. In the Manager
  - a. Select LDAP | Domains.
  - b. In the result list toolbar, click 🗗.



c. On the **General** tab, enter the following general master data:

Table	2:	Domain	master	data
-------	----	--------	--------	------

Property	Description
Display name	Display name: for example, Top Secret Domain
Distinguished name	Distinguished name of the domain: for example, host=topsecret1,o=mycompany,c=com
Domain	Domain name: for example, TOPSECRET1
Structural object class	Structural object class representing the object type: enter <b>DCOBJECT</b>

- d. Save the changes.
- 3. In the Synchronization Editor, open your Top Secret project.
  - a. Select Configuration | One Identity Manager connection.
  - b. Select **Scope view** and click **Edit scope**.
  - c. Select the object type LDPDomain in the Scope hierarchy list and set the Object filter to Ident\_Domain ='\$IdentDomain\$'.
  - d. Save the changes.

For more detailed information about scopes, see the *One Identity Manager Target System Synchronization Reference Guide*.

#### **Related topics**

• System variables on page 6

### **User mapping information**

This section shows a possible mapping between a user account in Top Secret and the standard One Identity Manager database table called LDAPAccount.

• Set up a new mapping from LDAPAccount(all) to tssacid(all).

For more detailed information about setting up mappings, see the One Identity Manager Target System Synchronization Reference Guide.

#### Detailed information about this topic

- Mandatory Top Secret user attributes on page 9
- Property mapping rules on page 9
- Object matching rules on page 12

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### **Mandatory Top Secret user attributes**

When creating a user in the Top Secret database, the following LDAP attributes must be defined:

- objectclass
- tssacid
- name
- Department
- userPassword

#### **Related topics**

- Property mapping rules on page 9
- Object matching rules on page 12

### **Property mapping rules**

• CanonicalName ← vrtEntryCanonicalName

vrtEntryCanonicalName is a virtual property, set to the canonical name of the object in the connector. Select the **Ignore case sensitivity** check box.

Sample value:

COM/MYCOMPANY/TOPSECRET1/ACIDS/USER1234

•  $cn \leftarrow \rightarrow tssacid$ 

On the Top Secret system, tssacid is the user ID. Select the **Ignore case sensitivity** check box.

Sample value:

USER1234

DistinguishedName ← vrtEntryDN

vrtEntryDN is a virtual property, set to the DN of the object in the connector. Once this mapping rule is created, edit the mapping rule by clicking on it. Select the **Ignore case sensitivity** check box.

Sample value:

tssacid=USER1234,tssadmingrp=acids,host=topsecret1,o=mycompany,c=com

• ObjectClass  $\leftarrow \rightarrow$  objectClass

The objectClass attribute (multi-valued) on the Top Secret system. Select the **Ignore case sensitivity** check box.

Sample value:



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TSSACID

StructuralObjectClass ← vrtStructuralObjectClass

vrtStructuralObjectClass on the Top Secret system defines the single object class for the object type. Select the **Ignore case sensitivity** check box.

Sample value:

TSSACID

• UID\_LDPDomain ← vrtIdentDomain

Create a fixed-value property variable on the Top Secret side calledvrtIdentDomain that is set to the value \$IdentDomain\$. Map this to UID\_LDPDomain. This will cause a conflict and the Property Mapping Rule Conflict Wizard opens automatically.

#### To resolve the conflict

- 1. In the Property Mapping Rule Conflict Wizard, select the first option and click **OK**.
- 2. On the Select an element page, select Ident\_Domain and click OK.
- 3. Confirm the security prompt with **OK**.
- 4. On the Edit property page:
  - a. Clear Save unresolvable keys.
  - b. Select Handle failure to resolve as error.
- 5. To close the Property Mapping Rule Conflict Wizard, click **OK**.

Sample value:

TOPSECRET1

• vrtParentDN → vrtEntryParentDN

Create a fixed-value property variable on the One Identity Manager side called vrtParentDN equal to a fixed string with value \$UserLocation\$. Map this to vrtEntryParentDN on the Top Secret side. Select the **Ignore case sensitivity** check box.

Sample value:

tssadmingrp=acids,host=topsecret1,o=mycompany,c=com

• BusinessCategory  $\leftarrow \rightarrow$  Department

The Department attribute defines the Top Secret department assigned to the user. Select the **Ignore case sensitivity** check box.

Sample value:

TSSDEPT1

Description ←→ name

The name attribute contains a description for the user. Select the **Ignore case sensitivity** check box.

Sample value:



TEST USER

• vrtRDN  $\rightarrow$  vrtEntryRDN

Create a new variable on the One Identity Manager side of type **Script Property** with the name vrtRDN and a data type of **String**. In the **Scripts** section, enter one of the following scripts in the **Read script** section, depending on whether your project is configured for C# or Visual Basic.

C# Script:

references VI.TSUtils.dll;

return (VI.TargetSystem.Base.Utils.LDAP.RDN.Create("cn", useOldValues ? \$cn
[0]\$ : \$cn\$).ToString()).Replace("cn=","tssacid=");

VB Script:

```
References VI.TSUtils.dll
```

Imports VI.TargetSystem.Base.Utils.LDAP

Dim name as String = ""

If useOldValues Then

```
name = $cn[o]$
```

Else

name = cn

End If

return RDN.Create("cn",name).ToString().Replace("cn=","tssacid=")

Then map vrtRDN to vrtEntryRDN on the Top Secret side.

Sample value:

tssacid=USER1234

• userPassword → userPassword

Used to change a user's password in Top Secret. A condition needs to be set on this rule to map the password only when there is a value to be copied.

#### To add a condition

- 1. Create the mapping.
- 2. Edit the property mapping rule.
- 3. Expand the **Condition for execution** section at the bottom of the dialog.
- 4. Click **Add condition** and set the following condition (a blank password is indicated by using two apostrophe characters).

Left.UserPassword<>''

#### **Related topics**

- Mandatory Top Secret user attributes on page 9
- Object matching rules on page 12



### **Object matching rules**

• DistinguishedName (primary rule) vrtEntryDN

vrtEntryDN is a virtual property set to the DN of the object in the connector. This forms a unique ID to distinguish individual user objects on the Top Secret system.

#### To convert this mapping into an object matching rule

- 1. Select the property mapping rule in the rule window.
- 2. Click 5 in the rule view toolbar.

A message appears.

3. Click **Yes** to convert the property mapping rule into an object matching rule and save a copy of the property mapping rule. Do not mark this rule as casesensitive. Leave the check box cleared.

Sample value:

tssacid=USER1234,tssadmingrp=acids,host=topsecret1,o=mycompany,c=com

#### **Related topics**

- Mandatory Top Secret user attributes on page 9
- Property mapping rules on page 9

### **Group mapping information**

This section shows a possible mapping between a group in Top Secret and the standard One Identity Manager database table called LDAPGroup.

• Set up a new mapping from LDAPGroup(all) to tssgroup(all).

For more detailed information about setting up mappings, see the One Identity Manager Target System Synchronization Reference Guide.

#### Detailed information about this topic

- Mandatory Top Secret group attributes on page 13
- Property mapping rules on page 13
- Object matching rules on page 16
- Synchronizing Top Secret group members on page 17



### **Mandatory Top Secret group attributes**

When creating a group in the Top Secret database, the following LDAP attributes must be defined:

- objectclass
- tssgroup
- name
- Department
- User-Type

#### **Related topics**

- Property mapping rules on page 13
- Object matching rules on page 16

### **Property mapping rules**

• CanonicalName ← vrtEntryCanonicalName

vrtEntryCanonicalName is a virtual property, set to the canonical name of the object in the connector. Select the **Ignore case sensitivity** check box.

Sample value:

COM/MYCOMPANY/TOPSECRET1/GROUPS/GROUP123

•  $cn \leftarrow \rightarrow tssgroup$ 

On the Top Secret system, tssgroup is the group ID. Select the **Ignore case sensitivity** check box.

Sample value:

GROUP123

DistinguishedName ← vrtEntryDN

vrtEntryDN is a virtual property, set to the DN of the object in the connector.

Sample value:

tssgroup=GROUP123,tssadmingrp=groups,host=topsecret1,o=mycompany,c=com

• ObjectClass  $\leftarrow \rightarrow$  objectClass

The objectClass attribute (multi-valued) on the Top Secret system. Select the **Ignore case sensitivity** check box.

Sample value:

TSSGROUP



• StructuralObjectClass ← vrtStructuralObjectClass

vrtStructuralObjectClass on the Top Secret system defines the single object class for the object type. Select the **Ignore case sensitivity** check box.

Sample value:

TSSGROUP

• UID\_LDPDomain ← vrtIdentDomain

Create a fixed-value property variable on the Top Secret side calledvrtIdentDomain that is set to the value \$IdentDomain\$. Map this to UID\_LDPDomain. This causes a conflict and the Property Mapping Rule Conflict Wizard opens automatically.

#### To resolve the conflict

- 1. In the Property Mapping Rule Conflict Wizard, select the first option and click **OK**.
- 2. On the **Select an element** page, select **Ident\_Domain** and click **OK**.
- 3. Confirm the security prompt with **OK**.
- 4. On the Edit property page,
  - a. Clear Save unresolvable keys.
  - b. Enable Handle failure to resolve as error.
- 5. To close the Property Mapping Rule Conflict Wizard, click **OK**.

Sample value:

TOPSECRET1

vrtParentDN → vrtEntryParentDN

Create a virtual attribute on the One Identity Manager side equal to a fixed string representing the parent DN for the object that is being manipulated. Select the **Ignore case sensitivity** check box.

Sample value:

tssadmingrp=groups,host=topsecret1,o=mycompany,c=com

• vrtRDN  $\rightarrow$  vrtEntryRDN

Create a new variable on the One Identity Manager side of type **Script Property** with the name vrtRDN and a data type of **String**. In the **Scripts** section, enter one of the following scripts in the **Read script** section, depending on whether your project is configured for C# or Visual Basic.

C# Script:

references VI.TSUtils.dll;

```
return (VI.TargetSystem.Base.Utils.LDAP.RDN.Create("cn", useOldValues ? $cn
[0]$ : $cn$).ToString()).Replace("cn=","tssgroup=");
```

VB Script:

References VI.TSUtils.dll



```
Imports VI.TargetSystem.Base.Utils.LDAP
Dim name as String = ""
If useOldValues Then
name = $cn[o]$
Else
name = $cn$
End If
return RDN.Create("cn",name).ToString().Replace("cn=","tssgroup=")
```

Then map vrtRDN to vrtEntryRDN on the Top Secret side.

Sample value:

tssgroup=GROUP123

Description ←→ name

The name attribute contains a description for the group. Select the **Ignore case sensitivity** check box.

Sample value:

TEST GROUP

• UID\_LDAPContainer ← vrtEmpty

This is a workaround needed to support group mappings. Create a new fixed-value variable on the Top Secret side of type **String** with no value called vrtEmpty. This is mapped to UID\_LDAPContainer. This generates a property mapping rule conflict.

#### To resolve the conflict

- In the Property Mapping Rule Conflict Wizard, highlight **Select this option if you do not want to change anything** and click **OK**.
- vrtMember  $\leftarrow \rightarrow$  uniqueMember

This mapping is used to synchronize group membership information.

- Create a new virtual entry on the One Identity Manager side of type Members of M:N schema types with the name vrtMember. Select the Ignore case and Enable relative component handling check boxes.
- 2. Add the following M:N schema types:
  - a. Add an entry for LDAPAccountInLDAPGroup. Set the left box to UID\_ LDAPGroup and the right box to UID\_LDAPAccount. Set the **Primary Key Property** to DistinguishedName.
  - b. Add an entry for LDAPGroupInLDAPGroup. Set the left box to UID\_ LDAPGroupChild and the right box to UID\_LDAPGroupParent. Set the **Primary Key Property** to DistinguishedName.
- 3. Create a new mapping rule of type **Multi-reference mapping rule**. Set the rule name to **Member** and the mapping direction to **Both directions**. Set the



One Identity Manager schema property to vrtMember and the Top Secret schema property to uniqueMember.

• vrtType  $\rightarrow$  User-Type

Create a new fixed-value property on theOne Identity Manager side of type **String** with the value GROUP. Call the property vrtType. Map this to User-Type on the Top Secret side. Select the **Ignore case sensitivity** check box.

• SeeAlso  $\leftarrow \rightarrow$  Department

The Department attribute defines the Top Secret department assigned to the group. A suitable string attribute on the One Identity Manager side to store this value is SeeAlso. Select the **Ignore case sensitivity** check box.

Sample value:

TSSDEPT1

#### **Related topics**

- Mandatory Top Secret group attributes on page 13
- Object matching rules on page 16

### **Object matching rules**

• DistinguishedName (primary rule) vrtEntryDN

vrtEntryDN is a virtual property, set to the DN of the object in the connector. This forms a unique ID to distinguish individual user objects on the Top Secret system.

#### To convert this mapping into an object matching rule

- 1. Select the property mapping rule in the rule window.
- 2. Click 5 in the rule view toolbar.

A message appears.

3. Click **Yes** to convert the property mapping rule into an object matching rule and save a copy of the property mapping rule.

Sample value:

tssgroup=GROUP123,tssadmingrp=groups,host=topsecret1,o=mycompany,c=com

#### **Related topics**

- Mandatory Top Secret group attributes on page 13
- Property mapping rules on page 13



### Synchronizing Top Secret group members

The members of a Top Secret group can be found in the group's uniqueMember attribute. This is a multi-valued attribute that contains a list of all group members (tssacids). The CA LDAP Server does not allow this attribute to be updated directly, but it can be updated via the connector. When the connector receives a request to update a group's uniqueMember attribute, it performs all necessary LDAP calls behind the scenes to synchronize group members.

#### How the connector performs group member synchronization

When the connector receives a request to update a group's uniqueMember attribute, it first performs an LDAP search to find out what the group's current uniqueMember attribute contains. It then compares the attribute with the supplied update and creates a list of users that need to be added or deleted in order to perform the synchronization.

For each user to be added, the connector sends an LDAP modify request for the user (tssacid) object to add the group via the user's groups attribute. This adds the user to the group, and the CA LDAP Server then automatically updates the group's uniqueMember attribute to include the new user.

Similarly, for each user deleted, the connector sends an LDAP modify request for the user (tssacid) object to delete the group via the user's groups attribute. This removes the user from the group and the CA LDAP Server then automatically updates the group's uniqueMember attribute to remove the user.

Once this is done, the uniqueMember attribute for the group will match the value that was passed into the connector, effectively synchronizing the two values. This approach is used in the sample group mapping in this document.

#### **Related topics**

• Group mapping information on page 12

### **Profile mapping information**

This section shows a possible mapping between a profile in Top Secret and the standard One Identity Manager database table called LDAPGroup.

• Set up a new mapping from LDAPGroup(all) to tssprofile(all).

For more detailed information about setting up mappings, see the One Identity Manager Target System Synchronization Reference Guide.



#### **Detailed information about this topic**

- Mandatory Top Secret profile attributes on page 18
- Property mapping rules on page 18
- Object matching rules on page 21
- Synchronizing Top Secret profile memberships on page 22

### **Mandatory Top Secret profile attributes**

When creating a profile in the Top Secret database, the following LDAP attributes must be defined:

- objectclass
- tssprofile
- name
- Department
- User-Type

#### **Related topics**

- Property mapping rules on page 18
- Object matching rules on page 21

### **Property mapping rules**

• CanonicalName ← vrtEntryCanonicalName

vrtEntryCanonicalName is a virtual property, set to the canonical name of the object in the connector. Select the **Ignore case sensitivity** check box.

Sample value:

COM/MYCOMPANY/TOPSECRET1/PROFILES/PROFILE1

•  $cn \leftarrow \rightarrow tssprofile$ 

On the Top Secret system, tssprofile is the profile ID. Select the **Ignore case sensitivity** check box.

Sample value:

PROFILE1

• DistinguishedName  $\leftarrow$  vrtEntryDN

vrtEntryDN is a virtual property, set to the DN of the object in the connector. Sample value:



tssprofile=PROFILE1,tssadmingrp=profiles,host=topsecret1,o=mycompany,c=com

• ObjectClass  $\leftarrow \rightarrow$  objectClass

The objectClass attribute (multi-valued) on the Top Secret system. Select the **Ignore case sensitivity** check box.

Sample value:

TSSPROFILE

• StructuralObjectClass ← vrtStructuralObjectClass

vrtStructuralObjectClass on the Top Secret system defines the single object class for the object type. Select the **Ignore case sensitivity** check box.

Sample value:

TSSPROFILE

• UID\_LDPDomain ← vrtIdentDomain

Create a fixed-value property variable on the Top Secret side calledvrtIdentDomain that is set to the value \$IdentDomain\$. Map this to UID\_LDPDomain. This causes a conflict and the Property Mapping Rule Conflict Wizard opens automatically.

#### To resolve the conflict

- 1. In the Property Mapping Rule Conflict Wizard, select the first option and click **OK**.
- 2. On the **Select an element** page, select **Ident\_Domain** and click **OK**.
- 3. Confirm the security prompt with **OK**.
- 4. On the **Edit property**page:
  - a. Clear Save unresolvable keys.
  - b. Enable Handle failure to resolve as error.
- 5. To close the Property Mapping Rule Conflict Wizard, click **OK**.

Sample value:

TOPSECRET1

• vrtParentDN → vrtEntryParentDN

Create a virtual attribute on the One Identity Manager side equal to a fixed string representing the parent DN for the object that is being manipulated. Select the **Ignore case sensitivity** check box.

Sample value:

tssadmingrp=profiles,host=topsecret1,o=mycompany,c=com

• vrtRDN  $\rightarrow$  vrtEntryRDN

Create a new variable on the One Identity Manager side of type **Script Property** with the name vrtRDN and a data type of **String**. In the **Scripts** section, enter one of the following scripts in the **Read script** section, depending on whether your project is configured for C# or Visual Basic.



C# Script:

```
references VI.TSUtils.dll;
return (VI.TargetSystem.Base.Utils.LDAP.RDN.Create("cn", useOldValues ? $cn
[o]$ : $cn$).ToString()).Replace("cn=","tssprofile=");
```

VB Script:

```
References VI.TSUtils.dll
Imports VI.TargetSystem.Base.Utils.LDAP
Dim name as String = ""
If useOldValues Then
name = $cn[0]$
Else
name = $cn$
End If
return RDN.Create("cn",name).ToString().Replace("cn=","tssprofile=")
```

Then map vrtRDN to vrtEntryRDN on the Top Secret side.

Sample value:

tssprofile=PROFILE1

Description ←→ name

The name attribute contains a description for the profile. Select the **Ignore case sensitivity** check box.

Sample value:

TEST PROFILE

• UID\_LDAPContainer ← vrtEmpty

This is a workaround needed to support membership mappings. Create a new fixed-value variable on the Top Secret side of type**String** with no value called vrtEmpty. This is mapped to UID\_LDAPContainer. This generates a property mapping rule conflict.

#### To resolve the conflict

- In the Property Mapping Rule Conflict Wizard, highlight **Select this option if you do not want to change anything** and click **OK**.
- vrtMember  $\leftarrow \rightarrow$  uniqueMember

This mapping is used to synchronize profile membership information.

- Create a new virtual entry on the One Identity Manager side of type Members of M:N schema types with the name vrtMember. Select the Ignore case and Enable relative component handling check boxes.
- 2. Add the following M:N schema types:



- Add an entry for LDAPAccountInLDAPGroup. Set the left box to UID\_ LDAPGroup and the right box to UID\_LDAPAccount. Set the **Primary Key Property** to DistinguishedName.
- b. Add an entry for LDAPGroupInLDAPGroup. Set the left box to UID\_ LDAPGroupChild and the right box to UID\_LDAPGroupParent. Set the **Primary Key Property** to DistinguishedName.
- 3. Create a new mapping rule of type **Multi-reference mapping rule**. Set the rule name to **Member** and the mapping direction to **Both directions**. Set the One Identity Manager schema property to vrtMember and the Top Secret schema property to uniqueMember.
- vrtType  $\rightarrow$  User-Type

Create a new fixed-value property on theOne Identity Manager side of type **String** with the value PROFILE. Call the property vrtType. Map this to User-Type on the Top Secret side. Select the **Ignore case sensitivity** check box.

• SeeAlso  $\leftarrow \rightarrow$  Department

The Department attribute defines the Top Secret department assigned to the profile. A suitable string attribute on the One Identity Manager side to store this value is SeeAlso. Select the **Ignore case sensitivity** check box.

Sample value:

TSSDEPT1

#### **Related topics**

- Mandatory Top Secret profile attributes on page 18
- Object matching rules on page 21

### **Object matching rules**

• DistinguishedName (primary rule) vrtEntryDN

vrtEntryDN is a virtual property, set to the DN of the object in the connector. This forms a unique ID to distinguish individual user objects on the Top Secret system.

#### To convert this mapping into an object matching rule

- 1. Select the property mapping rule in the rule window.
- 2. Click in the rule view toolbar.

A message appears.

3. Click **Yes** to convert the property mapping rule into an object matching rule and save a copy of the property mapping rule.

Sample value:

tssprofile=PROFILE1,tssadmingrp=profiles,host=topsecret1,o=mycompany,c=com



#### **Related topics**

- Mandatory Top Secret profile attributes on page 18
- Property mapping rules on page 18

# Synchronizing Top Secret profile memberships

The members of a Top Secret profile can be found in the profile's uniqueMember attribute. This is a multi-valued attribute that contains a list of all profile members (tssacids). The CA LDAP Server does not allow this attribute to be updated directly, but it can be updated via the connector. When the connector receives a request to update a profile's uniqueMember attribute, it performs all necessary LDAP calls behind the scenes to synchronize profile members.

#### How the connector performs profile member synchronization

When the connector receives a request to update a profile's uniqueMember attribute, it first performs an LDAP search to find out what the profile's current uniqueMember attribute contains. It then compares the attribute with the supplied update and creates a list of users that need to be added or deleted in order to perform the synchronization.

For each user to be added, the connector sends an LDAP modify request for the user (tssacid) object to add the group via the user's groups attribute. This adds the user to the profile, and the CA LDAP Server then automatically updates the profile's uniqueMember attribute to include the new user.

Similarly, for each user deleted, the connector sends an LDAP modify request for the user (tssacid) object to delete the profile via the user's groups attribute. This removes the user from the profile and the CA LDAP Server then automatically updates the profile's uniqueMember attribute to remove the user.

Once this is done, the uniqueMember attribute for the profile will match the value that was passed into the connector, effectively synchronizing the two values. This approach is used in the sample profile mapping in this document.

#### **Related topics**

• Profile mapping information on page 17



# **Appendix A**

## **Top Secret attributes**

The following table lists the Top Secret user, group and profile attributes that are made available to One Identity Manager by the Top Secret LDAP connector.

Table 3: List of	f Top Secret	user, groups,	and	profile	attributes
------------------	--------------	---------------	-----	---------	------------

Attribute name	
Acid-All	
Acid-Audit	
Acid-Create	
Acid-Defnode	
Acid-Info	
Acid-Maintain	
AcidMatchlim	
Acid-Report	
Acid-XAuth	
AdminAcid	
AdministeringAcid	
AdministeringDate	
AdministeringSMFid	
AdministeringTime	
AdminListData	
AdminMisc1	
AdminMisc2	
AdminMisc3	



Attribute name
AdminMisc4
AdminMisc5
AdminMisc6
AdminMisc7
AdminMisc8
AdminMisc9
AdminSuspend
AllowLocalIPWPhrase
APPC-Sysout-AcctNum
APPC-Sysout-Addr1
APPC-Sysout-Addr2
APPC-Sysout-Addr3
APPC-Sysout-Addr4
APPC-Sysout-Bldg
APPC-Sysout-Dept
APPC-Sysout-Name
APPC-Sysout-Room
Audit-Attr
AuthoritytoGraphicMonitorFacility
AutoOwnDatasetHLQ
Available-Cmds-per-Facility
Bypass-Dsn-Check
Bypass-Job-Submission-Check
Bypass-Limited-Cmd-Facility-Check
Bypass-Minidisklink-Check
Bypass-Resource-Check
Bypass-Volume-Check
CICS-Auto-Transaction

CICS-Oper-Class



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CICS-Oper-Identification
CICS-Oper-Property
CICS-Security-Key
CICS-Time-Out
Console-Auth
ConsoleIdentifier
Created-Date
Created-Time
DCESegmentFlags
Default-Remote-Nodes
Department
Division
DUF-Extract
DUF-Update
EIMProfile
EncryptedKey
EncryptionType
ExpireNow
ExpirePassPhraseNow
Expires
For-Number-of-Days
Globally-Admin-Profile
groupmemberOf
Groups
HomeCell
IMS-Multi-Sys-Coupling
InitialCommand
Installation-Data
InstallationExitSuspended



KerberosName

Language-Pref

Last-Access-Count

Last-Accessed-From-CPU

LastLoginDTS

Last-Used-Date

Last-Used-Facility

Last-Used-Time

LDAP-Destinations

LDAPUser

LinuxEntries

LinuxName

ListData-Acids

ListData-Admin

ListData-All

ListData-Basic

ListData-Cics

ListData-Instdata

ListData-LCF

ListData-Names

ListData-Password

ListData-Profile

ListData-PWVIEW

ListData-Resource

ListData-SessKey

ListData-SMS

ListData-Source

ListData-Tso

ListData-WorkAttr



Attribute name
ListData-XAuth
ListofScopeClasses
LotusName
M1-All
M1-Instdata
M1-LCF
M1-LTime
M1-Noats
M1-RDT
M1-Suspend
M1-TSSSim
M1-User
M2-All
M2-APPCLU
M2-DLF
M2-SMS
M2-Target
M2-TSO
M2-WorkAttr
M3-ALL
M3-SDT
M4-ALL
M4-CERTAUTH
M4-CERTCHEK
M4-CERTEXPO
M4-CERTGEN
M4-CERTLIST
M4-CERTSITE
M4-CERTUSER



Attribute name
M4-KERBUSER
M5-ALL
M5-DCLADMIN
M5-DCLIST
M5-MLSADMIN
M8-All
M8-LISTAPLU
M8-ListRDT
M8-ListSDT
M8-ListSTC
M8-MCS
M8-NOMVSDF
M8-PWMAINT
M8-Remasusp
M9-AII
M9-Bypass
M9-Console
M9-Generic
M9-Global
M9-Mastfac
M9-Mode
M9-STC
M9-Trace
Master-Facility
MaxAddrSpaceSize
MaxCPUTime
MaxDataSpacePages
MaxFilesPerProcess

Maximum-Non-Shared-Memory-Space



Maximum-Shared-Memory-Space
MaxProcess
MaxPthreadsCreated
MaxTicketLife
MCS-Alternate-Grp
MCS-Authirized-Cmds
MCS-Auto-Cmds
MCS-Cmd-Target-System
MCS-Delete-Oper-Cmds
MCS-Display-Format
MCS-Keyword
MCS-Log-Cmds
MCS-Migration-ID
MCS-Monitor
MCS-Msgs-Queue-Storage
MCS-Msgs-Received
MCS-Receive-ConsoledZero-Message
MCS-Receive-HardCopy-Messages
MCS-Receive-Unknown-ConsoleID-Messages
MCS-Routing-Code
MCS-Undelivered-Msgs
memberOf
MLSDfltSecLabel
MLSSecLabels
Modified-Date
Modified-Time
Multi-Region-Optimized-Signon
name
No Automatic Dan Dectaction

No-Automatic-Dsn-Protection



No-Automatic-Terminal-Signon No-OMVS-Default-User No-Password-Chq NovellName No-Vthresh-Suspend objectClass OMVS-Dflt-Group OMVS-Group-ID OMVS-Home-Subdir OMVS-Program OMVS-User-ID **Operating-Mode** PassPhrase PasswordSuspended Physical-Security-Key **Policy-Profiles** PrincipalNameofUser **Profile-After Profile-Before Profile-First** Profile-Names Profile-Until-Date ProgramIdentifierinOtherDomain PWPhrase ReceiveUnsolicitedMessages Refresh RestrictedAccess Restricted-Cmds-per-Facility

SecurityCheckIdentifier



SMS-Application-ID SMS-Data-Class SMS-Mgmt-Class SMS-Storage-Class Source-Reader StringFormofUUID Target-Notes-for-Cmds Terminal-Lock-Time Time-Zone Trace-ACID-Activity TSO-Hold-Class TSO-Job-Class TSO-Logon-Account TSO-Logon-Command TSO-Logon-Proc TSO-Max-Region-Size TSO-Message-Class TSO-Multiple-Passwords **TSO-Options** TSO-Output-Destination TSO-Performance-Grp TSO-Region-Size TSO-Sysout-Class TSO-Unit TSO-User-Data tssacid tssgroup tssprofile UIDGIDRange



uniqueMember

Until-Date

User-Access

UserDefFields

UserHomeCellUUID

userPassword

userPassword-Expire

userPassword-Interval

userPasswordPhraseInterval

User-Suspend

User-Type

Using-Acid

ViolationsSuspended

VSE-IES-Dflt-Usercat

VSE-IES-Fld1

VSE-IES-Fld2

VSE-IES-Init

VSE-IES-Synm-ModelID

VES-IES-Type

Wait-for-Synchronous-Processing

Zone



One Identity solutions eliminate the complexities and time-consuming processes often required to govern identities, manage privileged accounts and control access. Our solutions enhance business agility while addressing your IAM challenges with on-premises, cloud and hybrid environments.

### **Contacting us**

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- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product

