



## One Identity Manager 8.1

# LDAP Connector for CA Top Secret Reference Guide

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### Legend

-  **WARNING:** A WARNING icon indicates a potential for property damage, personal injury, or death.
-  **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.
-  **IMPORTANT, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

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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

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- [Platform support](#) on page 5
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## 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

The following sequence describes how to 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.
2. 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 DCOBJECT

- 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 LDAPDomain 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(a11) to tssacid(a11).

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



# 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 ←→ 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 ←→ objectClass  
The objectClass attribute (multi-valued) on the Top Secret system. Select the **Ignore case sensitivity** check box.  
Sample value:

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\_LDPPDomain ← vrtIdentDomain

Create a fixed-value property variable on the Top Secret side called vrtIdentDomain that is set to the value \$IdentDomain\$. Map this to UID\_LDPPDomain. 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 ↔ 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 → 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=", "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  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 case-sensitive. 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(a11) to tssgroup(a11).

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 ←→ 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 ←→ 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\_LDPODomain ← vrtIdentDomain

Create a fixed-value property variable on the Top Secret side called vrtIdentDomain that is set to the value \$IdentDomain\$. Map this to UID\_LDPODomain. 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 → 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=", "tssgroup=");
```

VB Script:

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

```
Imports VI.TargetSystem.Base.Utills.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 ← → uniqueMember

This mapping is used to synchronize group membership information.

1. 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 → User-Type

Create a new fixed-value property on the One 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 ← → 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  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(a11)` to `tssprofile(a11)`.

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 ← → tssprofile

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

Sample value:

PROFILE1

- DistinguishedName ← 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 ← → 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\_LDAPDomain ← vrtIdentDomain

Create a fixed-value property variable on the Top Secret side called vrtIdentDomain that is set to the value \$IdentDomain\$. Map this to UID\_LDAPDomain. 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 → 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.Utls.LDAP.RDN.Create("cn", useOldValues ? $cn
[o]$ : $cn$).ToString()).Replace("cn=", "tssprofile=");
```

VB Script:

```
References VI.TSUtils.dll

Imports VI.TargetSystem.Base.Utls.LDAP

Dim name as String = ""

If useOldValues Then

    name = $cn[o]$

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 ↔ uniqueMember

This mapping is used to synchronize profile membership information.

1. 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 → User-Type

Create a new fixed-value property on the One 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 ← → 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: 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 Top Secret user, groups, and profile attributes**

- 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
- 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  
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  
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  
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-All  
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-ConsoleZero-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-Dsn-Protection  
No-Automatic-Terminal-Signon  
No-OMVS-Default-User  
No-Password-Chg  
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-Sym-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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## Technical support resources

Technical support is available to One Identity customers with a valid maintenance contract and customers who have trial versions. You can access the Support Portal at <https://support.oneidentity.com/>.

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