



## One Identity Manager 8.1.2

# 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.

One Identity Manager LDAP Connector for CA Top Secret Reference Guide  
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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.
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**

<b>Name</b>	<b>Value</b>
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 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.Utills.LDAP.RDN.Create("cn", useOldValues ? $cn
[o]$ : $cn$).ToString()).Replace("cn=", "tssprofile=");
```

#### 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=", "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

## 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**

<b>Attribute name</b>
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



**Attribute name**

---

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

**Attribute name**

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-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

**Attribute name**

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-Dsn-Protection

**Attribute name**

---

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

**Attribute name**

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

**Attribute name**

---

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

For sales and other inquiries, such as licensing, support, and renewals, visit <https://www.oneidentity.com/company/contact-us.aspx>.

## 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/>.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request
- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to videos at [www.YouTube.com/OneIdentity](http://www.YouTube.com/OneIdentity)
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product