



One Identity Manager 8.0

LDAP Connector for IBM AS/400 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 IBM AS/400

This document describes how to initialize and configure the AS/400 LDAP connector into an existing One Identity Manager system. This enables a One Identity Manager system to access, read and update data stored on an AS/400 system.

i **NOTE:** Although the AS/400 system has been given more recent names such as iSeries and System i, it will be referred to as AS/400 throughout this document.

Detailed information about this topic

- [Pre-requisites on page 4](#)
- [Platform Support on page 5](#)
- [How to initialize and configure the AS/400 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 13](#)
- [Appendix: AS/400 Attributes on page 19](#)

Pre-requisites

- The AS/400 computer must have IBM AS/400 Directory Services installed and configured.
- A service account must be created on your AS/400 server which has the appropriate permissions to administer users and groups on this platform:
 - Security administrator (*SECADM) special authority rights;
 - Object management (*OBJMGT) rights over the user profile accounts that are to be managed;

- Use (*USE) rights over the user profile account(s) that are to be managed;
- The service account must be set up as a projected user.

NOTE: Before attempting to connect to the AS/400 Directory Services LDAP Server with the One Identity Manager connector, it is recommended to 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 AS/400 LDAP connector has been verified for synchronization against os-400 V7R1 or later.

How to initialize and configure the AS/400 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 AS/400

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. Select **AS/400 LDAP Connector** on the **Choose target system** page.
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 on the **Test** button to make sure the server is accessible.
 - d. IBM AS/400 Directory Services 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 AS/400 system.
 - c. Click **Test** to check that the credentials are valid.
9. The schema will be loaded from the AS/400 system.
10. Ignore the **Define virtual classes** page. Click **Next**.
11. On the **Search options** page:
 - a. In the **Base DN** drop-down list, select the correct base DN for your system. It should begin with OS400-SYS=.
 - b. Ignore the **Use paged search** check box.
12. Ignore the **Modification capabilities** page. Click **Next**.
13. Ignore the **Auxiliary class assignment** page. Click **Next**.
14. On the **System attributes** page, in the **Revision properties** section, deselect the "createTimestamp" and "modifyTimestamp" entries by double clicking on them.
15. Ignore the **Select dynamic group attributes** page. Click **Next**.
16. Ignore the **Password settings** page. Click **Next**.
17. Click **Finish**.

This takes you back to the Synchronization Editor's project wizard.
18. Enter the database connection data on the **One Identity Manager connection** page.
19. This will load the AS/400 schema into your One Identity Manager. Wait for this to complete.
20. On the **Select project template** page, select **Create blank project**.
21. On the **General** page, enter a display name for your synchronization project and set a scripting language if required.
22. Click **Finish** to complete the project wizard.
23. Select **Activate project** to activate the project.

System Variables

The following system variables need to be defined for the attribute mappings. For more detailed information about variables, see the One Identity Manager Target System Synchronization Reference Guide.

Table 1: System variables


| Name | Value |
|---------------|---|
| IdentDomain | The name of your AS/400 domain e.g. AS400_001 |
| UserLocation | Parent DN of your AS/400 user container, e.g. CN=ACCOUNTS,05400-SYS=AS4001.MYCOMPANY.COM |
| GroupLocation | Parent DN of your AS/400 group container, e.g. CN=ACCOUNTS,05400-SYS=AS4001.MYCOMPANY.COM |

Related Topics

- [Domain Filter Setting on page 7](#)
- [Property Mapping Rules on page 10](#)
- [Property Mapping Rules on page 15](#)

Domain Filter Setting

A domain filter needs to be created to identify information that has been retrieved from the AS/400 database to keep it separate from other imported data.

1. Update the One Identity Manager schema so that all entries are included.
 - a. In the Synchronization Editor, open your AS/400 project.
 - b. Select the category **Configuration | One Identity Manager connection**.
 - c. Then in the "General" section on the right-hand side, click **Update schema**.
 - d. Click on **Yes** in the next two dialog boxes.
 - e. Click **Ok** when completed.
2. In the Manager
 - a. Select the category **LDAP | Domains**.
 - b. In the result list toolbar, click .

- c. Enter at least the following general master data on the **General** tab.

Table 2: Domain Master Data

| Property | Description |
|-------------------------|--|
| Display name | Display name e.g. AS400 Domain 001 |
| Distinguished name | Distinguished name of the domain e.g. OS400-SYS=AS4001.MYCOMPANY.COM |
| Domain | Domain name e.g. AS400_001 |
| Structural object class | Structural object class representing the object type, enter DCOBJECT |

- d. Save the changes.
3. In the Synchronization Editor, open your AS/400 project.
 - a. Select the category **Configuration | One Identity Manager connection**.
 - b. Select the **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 AS/400 and the standard One Identity Manager database table called LDAPAccount. User and group information on the AS/400 is stored in the same container, so a filter needs to be set up to tell these apart.

- When creating the user mapping, add a new schema class as follows.

Table 3: Schema class settings

| Property | Value |
|-----------------------------|-------------------|
| Schema type | os400-usprf |
| Display name | user_os400_usrprf |
| Class name | user_os400_usrprf |
| Select objects: Condition | os400_gid='*NONE' |
| Select objects: Ignore case | Activated |

- Map the LDAPAccount (a11) schema class to this new schema class, user_os400_usrprf for this user mapping.

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

Detailed information about this topic

- [Mandatory AS/400 User Attributes on page 9](#)
- [Property Mapping Rules on page 10](#)
- [Object Matching Rules on page 12](#)
- [Sample User Mapping on page 13](#)

Mandatory AS/400 User Attributes

When creating a user in the AS/400 database, the following LDAP attributes must be defined:

- objectclass
- os400-profile

Related Topics

- [Property Mapping Rules on page 10](#)
- [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.
Sample value:
AS4001.MYCOMPANY.COM/ACCOUNTS/USER1234
- cn ←→ os400-profile
On the AS/400 system, os400-profile is the user ID.
Sample value:
USER1234
- DistinguishedName ← vrtEntryDN
vrtEntryDN is a virtual property, set to the DN of the object in the connector. Once this mapping rule has been created, edit the mapping rule by clicking on it. Then check the box marked **Force mapping against direction of synchronization**.
Sample value:
os400-profile=USER1234,CN=ACCOUNTS,OS400-SYS=AS4001.MYCOMPANY.COM
- ObjectClass ←→ objectClass
The objectClass attribute (multi-valued) on the AS/400 system. Activate the check box **Ignore case sensitivity**.
Sample value:
TOP;OS400-USRPRF
- StructuralObjectClass ← vrtStructuralObjectClass
vrtStructuralObjectClass on the AS/400 system defines the single object class for the object type.
Sample value:
OS400-USRPRF
- UID_LDPDomain ← vrtIdentDomain
Create a fixed value property variable on the AS/400 side called vrtIdentDomain 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 solve 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. Deactivate **Save unresolvable keys**.
 - b. Activate **Handle failure to resolve as error**.
 - c. To close the Property Mapping Rule Conflict Wizard, click **OK**.

Sample value:

AS400_001

- 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 AS/400 side.

Sample value:

CN=ACCOUNTS,OS400-SYS=AS4001.MYCOMPANY.COM

- vrtRDN → vrtEntryRDN

Create a new variable on the One Identity Manager side of type "Format Defined Property" with name vrtRDN. Set its value to os400-profile=%CN%. Then map this to vrtEntryRDN on the AS/400 side.

Sample value:

os400-profile=USER1234

- userPassword → os400-password

Used to change a user's AS/400 password. 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 on **Add condition** and set the following condition (a blank password is indicated by using two apostrophe characters).

Left.UserPassword<>' '

- UID_LDAPContainer ← vrtEmpty

This is a workaround needed to support group mappings. Create a new fixed value variable on the AS/400 side of type "String" with no value called vrtEmpty. Map this to UID_LDAPContainer. This generates a property mapping rule conflict.

To solve the conflict

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


Related Topics

- [Mandatory AS/400 User Attributes on page 9](#)
- [System Variables on page 6](#)
- [Object Matching Rules on page 12](#)
- [Sample User Mapping on page 13](#)

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 AS/400 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.
4. Open the new object matching rule in the top window and uncheck the option **Case sensitive**.

Sample value:


os400-profile=USER1234,CN=ACCOUNTS,OS400-SYS=AS4001.MYCOMPANY.COM









Related Topics

- [Mandatory AS/400 User Attributes on page 9](#)
- [Property Mapping Rules on page 10](#)
- [Sample User Mapping on page 13](#)


Sample User Mapping






The following figure shows the above user mapping in operation.

 Object matching rules

| Schema property in One Identity Manager | Information | Schema property in the target system |
|---|--------------|--------------------------------------|
| DistinguishedName | Primary rule | vrEntryDN |

 Property mapping rules

| Schema property in One Identity Manager | | Information | Schema property in the target system |
|---|---|-------------|--------------------------------------|
| CanonicalName | ← | | vrEntryCanonicalName |
| cn | ← | | → os400-profile |
| DistinguishedName | ← | | vrEntryDN |
| ObjectClass | ← | | → objectClass |
| StructuralObjectClass | ← | | vrStructuralObjectClass |
| UID_LDAPContainer | ← | | vrEmpty |
| VRT_UID_LDAPDomain | ← | | vrIdentDomain |
| UserPassword | ← | ? | → os400-password |
| vrParentDN | | | → vrEntryParentDN |
| vrRDN | | | → vrEntryRDN |

Group Mapping Information

This section shows a possible mapping between a group profile in AS/400 and the standard One Identity Manager database table called LDAPGroup. User and group information on the AS/400 is stored in the same container, so a filter needs to be set up to tell these apart.

- When creating the group mapping, add a new schema class as follows.

Table 4: Schema class settings

| Property | Value |
|-----------------------------|--------------------|
| Schema type | os400-usprf |
| Display name | group_os400_usrprf |
| Class name | group_os400_usrprf |
| Select objects: Condition | os400_gid<>*NONE' |
| Select objects: Ignore case | Activated |

- Map the LDAPGroup (a11) schema class to this new schema class, group_os400_usrprf for this group mapping.

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

Detailed information about this topic

- [Mandatory AS/400 Group Attributes on page 14](#)
- [Property Mapping Rules on page 15](#)
- [Object Matching Rules on page 17](#)
- [Sample Group Mapping on page 17](#)

Mandatory AS/400 Group Attributes

When creating a group in the AS/400 database, the following LDAP attributes must be defined:

- objectclass
- os400-profile
- os400-groupmember (this is not mandatory but if omitted, a user profile will be created instead)

Related Topics

- [Property Mapping Rules on page 15](#)
- [Object Matching Rules on page 17](#)

Property Mapping Rules

- CanonicalName ← vrtEntryCanonicalName
vrtEntryCanonicalName is a virtual property, set to the canonical name of the object in the connector.
Sample value:
AS4001.MYCOMPANY.COM/ACCOUNTS/GROUP123
- cn ←→ os400-profile
On the AS/400 system, os400-profile is the group ID.
Sample value:
USERGRP
- DistinguishedName ← vrtEntryDN
vrtEntryDN is a virtual property, set to the DN of the object in the connector.
Sample value:
os400-profile=GROUP123,CN=ACCOUNTS,OS400-SYS=AS4001.MYCOMPANY.COM
- ObjectClass ←→ objectClass
The objectClass attribute (multi-valued) on the AS/400 system. Activate the check box **Ignore case sensitivity**.
Sample value:
TOP;OS400-USRPRF
- StructuralObjectClass ← vrtStructuralObjectClass
vrtStructuralObjectClass on the AS/400 system defines the single object class for the object type.
Sample value:
OS400-USRPRF
- vrtParentDN → vrtEntryParentDN
Create a fixed value property variable on the One Identity Manager side called vrtParentDN equal to a fixed string with value \$GroupLocation\$. Map this to vrtEntryParentDN on the AS/400 side.
Sample value:
CN=ACCOUNTS,OS400-SYS=AS4001.MYCOMPANY.COM
- vrtRDN → vrtEntryRDN
Create a virtual attribute on the One Identity Manager side equal to the CN value. Then map this to vrtEntryRDN on the AS/400 side.
Sample value:
os400-profile=GROUP123

- UID_LDAPContainer ← vrtEmpty

This is a workaround needed to support group mappings. Create a new fixed value variable on the AS/400 side of type "String" with no value called vrtEmpty. Map this to UID_LDAPContainer. This generates a property mapping rule conflict.

To solve 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 ↔ os400-groupmember

Synchronizing this attribute on the AS/400 will manage the group memberships for the user.

1. Create a new virtual entry on the One Identity Manager side of type "Members of M:N schema types" with name vrtMember. Activate the boxes to **Ignore case** and **Enable relative component handling**.
2. Add an entry for LDAPAccountInLDAPGroup(all). Set the left box to UID_LDAPGroup and the right box to UID_LDAPAccount. 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 AS/400 schema property to os400-groupmember.

- UID_LDAPDomain ← vrtIdentDomain

Create a fixed value property variable on the AS/400 side called vrtIdentDomain that is set to the value \$IdentDomain\$. Map this to UID_LDAPDomain. This will cause a conflict and the Property Mapping Rule Conflict Wizard opens automatically.

To solve 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. Deactivate **Save unresolvable keys**.
 - b. Activate **Handle failure to resolve as error**.
 - c. To close the Property Mapping Rule Conflict Wizard, click **OK**.

Sample value:

AS400_001

Related Topics


- [Mandatory AS/400 Group Attributes on page 14](#)
- [System Variables on page 6](#)

- [Object Matching Rules on page 17](#)
- [Sample Group Mapping on page 17](#)

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 AS/400 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:

os400-profile=GROUP123,CN=ACCOUNTS,OS400-SYS=AS4001.MYCOMPANY.COM

Related Topics

- [Mandatory AS/400 Group Attributes on page 14](#)
- [Property Mapping Rules on page 15](#)
- [Sample Group Mapping on page 17](#)

Sample Group Mapping

The following figure shows the above group mapping in operation.

Object matching rules



| Schema property in One Identity Manager | Information | Schema property in the target system |
|---|--------------|--------------------------------------|
| DistinguishedName | Primary rule | vrtEntryDN |

Property mapping rules



| Schema property in One Identity Manager | Information | Schema property in the target system |
|---|-------------|--------------------------------------|
| CanonicalName | ← | vrtEntryCanonicalName |
| cn | ← | → os400-profile |
| DistinguishedName | ← | vrtEntryDN |
| vrtMember | ← | → os400-groupmember |
| ObjectClass | ← | → objectClass |
| StructuralObjectClass | ← | vrtStructuralObjectClass |
| UID_LDAPContainer | ← | vrtEmpty |
| VRT_UID_LDAPDomain | ← | vrtIdentDomain |
| vrtParentDN | | → vrtEntryParentDN |
| vrtRDN | | → vrtEntryRDN |

Appendix: AS/400 Attributes

The following table lists the AS/400 attributes that are made available to One Identity Manager by the AS/400 LDAP connector. User and group objects in the AS/400 Directory Server are treated at the same level.

Table 5: List of AS/400 Attributes

| Attribute Name |
|-----------------------|
| os400-acgcde |
| os400-astlvl |
| os400-atnpgm |
| os400-audlvl |
| os400-ccsid |
| os400-chridctl |
| os400-cntryid |
| os400-curlib |
| os400-dlvry |
| os400-docpwd |
| os400-dspsgninf |
| os400-eimassoc |
| os400-gid |
| os400-groupmember |
| os400-grpaut |
| os400-grpauttyp |
| os400-grpprf |
| os400-homedir |

Attribute Name

os400-laspStorageInformation

os400-inlmnu

os400-inlpgm

os400-invalidSignonCount

os400-jobd

os400-kbdbuf

os400-langid

os400-lclpwdmgt

os400-lmtdevssn

os400-locale

os400-maxstg

os400-msgq

os400-objaud

os400-outq

os400-owner

os400-password

os400-passwordExpirationDate

os400-passwordLastChanged

os400-previousSignon

os400-profile

os400-prtdev

os400-ptylmt

os400-pwdexp

os400-pwdexpitv

os400-setobatr

os400-sev

os400-spcaut

os400-spcenv

os400-status

Attribute Name

os400-storageUsed

os400-storageUsedOnlasp

os400-supgrpprf

os400-text

os400-uid

os400-usrcls

os400-usropt

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/>.

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