One Identity Manager 8.1.1

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.

ℹ️ IMPORTANT, NOTE, TIP, MOBILE, or VIDEO: An information icon indicates supporting information.

One Identity Manager LDAP Connector for IBM AS/400 Reference Guide
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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.

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

- Prerequisites 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

Prerequisites

- 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 that 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 accounts that are to be managed
- Service account 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, 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 project wizard.
3. On the **Choose target system** page, select **AS/400 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 **Test** 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, select the **Use SSL** check 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.

   The schema is loaded from the AS/400 system.

9. Ignore the **Define virtual classes** page. Click **Next**.

10. 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.

11. Ignore the **Modification capabilities** page. Click **Next**.

12. Ignore the **Auxiliary class assignment** page. Click **Next**.

13. On the **System attributes** page, in the **Revision properties** section, clear the **createTimestamp** and **modifyTimestamp** entries by double-clicking them.

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 loads the AS/400 schema into your One Identity Manager. 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 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IdentDomain</td>
<td>The name of your AS/400 domain, for example, AS400_001</td>
</tr>
<tr>
<td>UserLocation</td>
<td>Parent DN of your AS/400 user container, for example, CN=ACCOUNTS,OS400-SYS=AS4001.MYCOMPANY.COM</td>
</tr>
<tr>
<td>GroupLocation</td>
<td>Parent DN of your AS/400 group container, for example, CN=ACCOUNTS,OS400-SYS=AS4001.MYCOMPANY.COM</td>
</tr>
</tbody>
</table>

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 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>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display name</td>
<td>Display name, for example, AS400 Domain 001</td>
</tr>
<tr>
<td>Distinguished name</td>
<td>Distinguished name of the domain, for example, 05400-SYS=AS4001.MYCOMPANY.COM</td>
</tr>
<tr>
<td>Domain</td>
<td>Domain name, for example, AS400_001</td>
</tr>
<tr>
<td>Structural object class</td>
<td>Structural object class representing the object type; enter DCOBJECT</td>
</tr>
</tbody>
</table>

d. Save the changes.

3. In the Synchronization Editor, open your AS/400 project.
   a. Select **Configuration | One Identity Manager connection.**
   b. Select **Scope view** and click **Edit scope.**
   c. Select the object type LDPDomain in the **Scope hierarchy** list and set the **Object filter** to `Ident_Domain ='$IdentDomain$'`.
   d. Save the changes.

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

**Related topics**

- System variables on page 6

**User mapping information**

This section shows a possible mapping between a user account in 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schema type</td>
<td>os400-usprf</td>
</tr>
<tr>
<td>Display name</td>
<td>user_os400_usprf</td>
</tr>
<tr>
<td>Class name</td>
<td>user_os400_usprf</td>
</tr>
<tr>
<td>Select objects: Condition</td>
<td>os400_gid='*NONE'</td>
</tr>
<tr>
<td>Select objects: Ignore case</td>
<td>Activated</td>
</tr>
</tbody>
</table>

Map the LDAPAccount (all) schema class to this new schema class, user_os400_usprf, 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 select 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. Enable 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 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:

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 the 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 **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 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**.
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 clear the Case sensitive check box.

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 user mapping in operation.

<table>
<thead>
<tr>
<th>Object mapping rules</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Schema property in One Identity Manager</strong></td>
</tr>
<tr>
<td>DistinguishedName</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property mapping rules</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Schema property in One Identity Manager</strong></td>
</tr>
<tr>
<td>CommonName</td>
</tr>
<tr>
<td>cn</td>
</tr>
<tr>
<td>DistinguishedName</td>
</tr>
<tr>
<td>ObjectClass</td>
</tr>
<tr>
<td>StructuralObjectClass</td>
</tr>
<tr>
<td>USER_LDAPContainer</td>
</tr>
<tr>
<td>VRT_USER_LDAPDomain</td>
</tr>
<tr>
<td>UserPassword</td>
</tr>
<tr>
<td>vParentDN</td>
</tr>
<tr>
<td>vEON</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schema type</td>
<td>os400-usrprf</td>
</tr>
<tr>
<td>Display name</td>
<td>group_os400_usrprf</td>
</tr>
<tr>
<td>Class name</td>
<td>group_os400_usrprf</td>
</tr>
<tr>
<td>Select objects: Condition</td>
<td>os400_gid&lt;&gt;*NONE'</td>
</tr>
<tr>
<td>Select objects: Ignore case</td>
<td>Activated</td>
</tr>
</tbody>
</table>

Map the LDAPGroup (all) 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. Select the Ignore case sensitivity check box.
  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 the 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 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 ←→ 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 the name vrtMember. Select the **Ignore case** and **Enable relative component handling** check boxes.
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_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 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:

AS400_001

**Related topics**

- Mandatory AS/400 group attributes on page 14
- System variables on page 6
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 \( \text{button} \) 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 group mapping in operation.
## Object matching rules

<table>
<thead>
<tr>
<th>Schema property in One Identity Manager</th>
<th>Information</th>
<th>Schema property in the target system</th>
</tr>
</thead>
<tbody>
<tr>
<td>DistinguishedName</td>
<td>Primary rule</td>
<td>setIdentityDN</td>
</tr>
</tbody>
</table>

## Property mapping rules

<table>
<thead>
<tr>
<th>Schema property in One Identity Manager</th>
<th>Information</th>
<th>Schema property in the target system</th>
</tr>
</thead>
<tbody>
<tr>
<td>CommonName</td>
<td></td>
<td>setIdentityCommonName</td>
</tr>
<tr>
<td>cn</td>
<td></td>
<td>setIdentityCN</td>
</tr>
<tr>
<td>DistinguishedName</td>
<td></td>
<td>setIdentityDN</td>
</tr>
<tr>
<td>uid</td>
<td></td>
<td>setIdentityDN</td>
</tr>
<tr>
<td>objectClass</td>
<td></td>
<td>setIdentityDN</td>
</tr>
<tr>
<td>structureObjectClass</td>
<td></td>
<td>setIdentityDomainDomain</td>
</tr>
<tr>
<td>UID_LDAPContainer</td>
<td></td>
<td>setIdentityParentDN</td>
</tr>
<tr>
<td>uid10960Domain</td>
<td></td>
<td>setIdentityDN</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Attribute name</th>
</tr>
</thead>
<tbody>
<tr>
<td>os400-acgcde</td>
</tr>
<tr>
<td>os400-astlvl</td>
</tr>
<tr>
<td>os400-atnpgm</td>
</tr>
<tr>
<td>os400-audlvl</td>
</tr>
<tr>
<td>os400-ccsid</td>
</tr>
<tr>
<td>os400-chridctl</td>
</tr>
<tr>
<td>os400-cntryid</td>
</tr>
<tr>
<td>os400-curlib</td>
</tr>
<tr>
<td>os400-dlvry</td>
</tr>
<tr>
<td>os400-docpwd</td>
</tr>
<tr>
<td>os400-dspsgninf</td>
</tr>
<tr>
<td>os400-eimassoc</td>
</tr>
<tr>
<td>os400-gid</td>
</tr>
<tr>
<td>os400-groupmember</td>
</tr>
<tr>
<td>os400-grpaut</td>
</tr>
<tr>
<td>os400-grpauttyp</td>
</tr>
<tr>
<td>os400-grpprf</td>
</tr>
<tr>
<td>os400-homedir</td>
</tr>
<tr>
<td>Attribute name</td>
</tr>
<tr>
<td>--------------------------------</td>
</tr>
<tr>
<td>os400-laspStorageInformation</td>
</tr>
<tr>
<td>os400-inImnu</td>
</tr>
<tr>
<td>os400-inlpgm</td>
</tr>
<tr>
<td>os400-invalidSignonCount</td>
</tr>
<tr>
<td>os400-jobd</td>
</tr>
<tr>
<td>os400-kbdbuf</td>
</tr>
<tr>
<td>os400-langid</td>
</tr>
<tr>
<td>os400-lclpwdmgt</td>
</tr>
<tr>
<td>os400-lmtdevssn</td>
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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 or other inquiries, visit https://www.oneidentity.com/company/contact-us.aspx or call +1-800-306-9329.

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