



One Identity Manager 8.0.3

## 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.

**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**


<b>Name</b>	<b>Value</b>
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	vrtEntryDN

---

 Property mapping rules

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

## 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(a11). 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 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_LDPDomain	←	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**

<b>Attribute Name</b>
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

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/>.

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- View Knowledge Base articles
- Sign up for product notifications
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- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product