

HP OpenView Select Identity

Connector for IBM AS/400 V5 R2 Systems

Installation and Configuration Guide

Connector Version: 3.3
Select Identity Version: 3.3.1



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- Commons-beanutils.
- Commons-collections.
- Commons-logging.
- Commons-digester.
- Commons-httpclient.

- Element Construction Set (ecs).
- Jakarta-poi.
- Jakarta-regexp.
- Logging Services (log4j).

Additional third party software used by Select Identity includes:

- JasperReports developed by SourceForge.
- iText (for JasperReports) developed by SourceForge.
- BeanShell.
- Xalan from the Apache XML Project.
- Xerces from the Apache XML Project.
- Java API for XML Processing from the Apache XML Project.
- SOAP developed by the Apache Software Foundation.
- JavaMail from SUN Reference Implementation.
- Java Secure Socket Extension (JSSE) from SUN Reference Implementation.
- Java Cryptography Extension (JCE) from SUN Reference Implementation.
- JavaBeans Activation Framework (JAF) from SUN Reference Implementation.
- OpenSPML Toolkit from OpenSPML.org.
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- Hibernate from Hibernate.org.
- BouncyCastle engine for keystore management, bouncycastle.org.

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Installing the Connector

The AS/400 connector enables HP OpenView Select Identity to perform the following tasks AS/400 V5 R2 systems:

- Add, update, and remove users
- Retrieve user attributes
- Enable and disable users
- Verify a user's existence
- Change user passwords
- Reset user passwords
- Retrieve all entitlements
- Retrieve a list of supported user attributes
- Assign and unassign entitlements to and from users

It is a one-way connector and pushes changes made to user data in the Select Identity database to a target AS/400 server.

The AS/400 connector is packaged in the following files in the AS400 directory on the Select Identity Connector CD:

- `as400schema.jar` — contains the attribute mapping files, which controls how Select Identity fields are mapped to AS/400 fields
- `As400Connector.rar` — contains the connector binary files

System Requirements

The AS/400 connector is supported in the following environment:

Select Identity Version	Application Server	Database
3.0.2	WebLogic 8.1.2 on Windows 2003	SQL Server 2000
3.3	WebLogic 8.1.4 on Windows 2003	SQL Server 2000
3.3.1	WebLogic 8.1.4 on Windows 2003	SQL Server 2000

This connector is supported with AS/400 server, version 5 release 2, on OS/390 systems.

On the application server, make sure that the IBM Toolbox for Java (JTOPEN) is installed on the application server, which is used by the connector to access the Select Identity server. In addition, the following must be installed and configured to enable the AS/400 system to connect to the Select Identity server and access its data and services:

- TC1 Licensed Program (TCP/IP Connectivity Utilities for AS/400)
- The Host Server for AS/400 option

Deploying on the Web Application Server

To install the AS/400 connector on the Select Identity server, complete these steps.

- 1 Create a subdirectory in the Select Identity home directory where the connector's RAR file will reside. For example, you could create the `C:\Select_Identity\connectors` folder on Windows. (A connector subdirectory may already exist.)
- 2 Copy the `As400Connector.rar` file from the Select Identity Connector CD to the connector subdirectory.
- 3 Create a schema subdirectory in the Select Identity home directory where the connector's mapping file(s) will reside. For example, you could create the `C:\Select_Identity\schemas` folder. (This subdirectory may already exist.)
- 4 Extract the contents of the `as400schema.jar` file (on the Select Identity Connector CD) to the schema subdirectory.
- 5 Ensure that the CLASSPATH environment variable in the WebLogic server startup script references the schema subdirectory.
- 6 Start the application server if it is not currently running.
- 7 Log on to the WebLogic Server Console.
- 8 Navigate to *My_domain* → **Deployments** → **Connector Modules**.
- 9 Click **Deploy a New Connector Module**.
- 10 Locate and select the `As400Connector.rar` file from the list. It is stored in the connector subdirectory.
- 11 Click **Target Module**.
- 12 Select the **My Server** (your server instance) check box.
- 13 Click **Continue**. Review your settings.
- 14 Keep all default settings and click **Deploy**. The Status of Last Action column should display Success.
- 15 Modify the mapping file, if necessary. See [Understanding the Mapping File on page 10](#) for details.

After installing the connector, see [Configuring the Connector on page 30](#) about registering and configuring the connector in Select Identity.

Understanding the Mapping File

The AS/400 connector is deployed with the `As400Mapping.xml` mapping file, which describes the attributes required by the system. The file is created in XML, according to SPML standards, and is bundled in a JAR file called `as400schema.jar`. The mapping file is used to map user account additions and modifications from Select Identity to the system resource. When you deploy a resource using the Resources page of the Select Identity client, you can review this file.

You can create attributes that are specific to Select Identity using the Attributes page in the Select Identity client. These attributes can be used to associate Select Identity user accounts with system resources by editing the connector mapping file described in this chapter. This process becomes necessary because, for example, a single attribute “username” can have a different name on different resources, such as “login” for AS/400, “UID” for a database, and “userID” on a Windows server.

This file does not need to be edited unless you want to map additional attributes to your resource. If attributes and values are not defined in this mapping file, they cannot be saved to the resource through Select Identity.

General Information

The following operations can be performed in the mapping file:

- Add a new attribute mapping
- Delete an existing attribute mapping
- Modify attribute mappings

Here is an explanation of the elements in the XML mapping file:

- **<Schema>**, **<providerID>**, and **<schemaID>**

Provides standard elements for header information.

- **<objectClassDefinition>**

Defines the actions that can be performed on the specified object as defined by that name attribute (in the **<properties>** element block) and the Select Identity-to-resource field mappings for the object (in the **<memberAttributes>** block). For example, the object class definition for users defines that users can be created, read, updated, deleted, reset, and expired in AS/400.

- **<properties>**

Defines the operations that are supported on the object. This can be used to control the operations that are performed through Select Identity. The following operations can be controlled:

- Create (CREATE)
- Read (READ)
- Update (UPDATE)
- Delete (DELETE)
- Enable (ENABLE)
- Disable (DISABLE)
- Reset password (RESET_PASSWORD)
- Expire password (EXPIRE_PASSWORD)
- Change password (CHANGE_PASSWORD)

The operation is assigned as the name of the <attr> element and access to the operation is assigned to a corresponding <value> element. You can set the values as follows:

- true — the operation is supported by the connector
- false — the operation is not supported by the connector
- bypass — the operation is not supported by the connector

Here is an example:

```
<objectClassDefinition name="User" description="As400 User">
  <properties>
    <attr name="CREATE">
      <value>true</value>
    </attr>
    <attr name="READ">
      <value>true</value>
    </attr>
  </properties>
</objectClassDefinition>
```

- **<memberAttributes>**

Defines the attribute mappings. This element contains <attributeDefinitionReference> elements that describe the mapping for each attribute. Each <attributeDefinitionReference> must be followed by an <attributeDefinition> element that specifies details such as minimum length, maximum length, and so on.

Each <attributeDefinitionReference> element contains the following attributes:

- Name — the name of the reference.
- Required— if this attribute is required in the provisioning (set to true or false).
- Concerot:tafield — the name of the Select Identity resource attribute. In general, the attribute assigned to tafield should be the same as the physical resource attribute, or at least the connector attribute. For example, it is recommended to have the following:

```
<attributeDefinitionReference name="FirstName"
  required="false" concero:tafield="[givenname]"
  concero:resfield="givenname" concero:init="true"
  concero:isMulti="true"/>
```

instead of this:

```
<attributeDefinitionReference name="FirstName"
required="false" concero:tafield="[FirstName]"
concero:resfield="givenname" concero:init="true"
concero:isMulti="true"/>
```

- **Concero:resfield** — the name of the physical resource attribute from the resource schema. If the resource does not support an explicit schema, this can be a tag field that indicates a resource attribute mapping.

Also, the attribute name may be case-sensitive; for example, if the attribute is defined in all uppercase letters on the resource, be sure to specify it in all uppercase letters here.

- **Concero:isKey** — An optional attribute that, when set to true, specifies that this is the key field to identify the object on the resource. Only one `<attributeDefinitionReference>` can be specified where `isKey="true"`. This key field does not need to be the same as the key field of the identity object in Select Identity.

Note that for a key field mapping where `isKey="true"` and `tafield` is not assigned the `UserName` attribute, `UserName` should not be used in any other mapping. That is, `UserName` can be assigned to `tafield` only in cases where it is mapped to the key field in the resource. Example:

```
<attributeDefinitionReference name="UserName"
required="true" concero:tafield="[UserName]"
concero:resfield="uid" concero:isKey="true"
concero:init="true"/>
```

- **Concero:init** — An optional attribute that identifies that the attribute is initialized with the value of the attribute passed in from Select Identity.

Here is an example:

```
<memberAttributes>
  <attributeDefinitionReference name="GroupName"
    required="true" concero:tafield="GroupName"
    concero:resfield="schema=newxj,table=T_USERINFO,
    column=USERSTATUS" concero:isKey="true" />
</memberAttributes>
```

The interpretation of the mapping between the connector field (as specified by the `Concero:tafield` attribute) and the resource field (as specified by the `Concero:resfield` attribute) is determined by the connector. The AS/400 connector has code to interpret the mappings in one way, as follows:

- The connector attribute names are specified in square braces, like this: `[xyz]`. The value of attribute `xyz` is taken from the UserModel during provisioning.
- Composite attributes can be specified in the AS/400 connector mapping file. To do this, specify `[attr1] xxxx [attr2]` as the connector attribute. This specifies that the value of the `attr1` and `attr2` attributes should be combined with the string `xxxx` to form a mapping for the specified resource field. AS/400 connector has code to handle these composite mappings.

- **<attributeDefinition>**

Defines the properties of each object's attribute. For example, the attribute definition for the Directory attribute defines that it must be between one and 50 characters in length and can contain the following letters, numbers, and characters: a-z, A-Z, 0-9, @, +, and a space.

Here is an excerpt from the `AS400Connector.xml` file:

```
<attributeDefinition name="Directory" description="Directory"
  type="xsd:string">
  <properties>
    <attr name="minLength">
      <value>1</value>
    </attr>
    <attr name="maxLength">
      <value>50</value>
    </attr>
    <attr name="pattern">
      <value>
        <![CDATA[ [a-zA-Z0-9/]+ ]]>
      </value>
    </attr>
  </properties>
</attributeDefinition>
```

- **<concero:entitlementMappingDefinition>**

Defines how entitlements are mapped to users.

- **<concerno:objectStatus>**
Defines how to assign status to a user.
- **<concerno:relationshipDefinition>**
Defines how to create relationships between users.

AS/400 Mapping Information

The AS/400 connector supports the following identify information to be provisioned on the AS/400 system. You can add, modify, or delete attributes once you are familiar with the contents of this file. See the *HP OpenView Select Identity Connector Developer Guide* for more information about attributes and mapping information.

You can edit the Select Identity resource attributes; they reflect the identity information as seen in Select Identity. The logical AS/400 attributes are attributes of user accounts on the AS/400 system. These attributes cannot be changed. The Possible Values column lists special values that are recognized by the AS/400 system. You can use these values in addition to account specifics. See the *OS/400 Security Reference* product documentation for all AS/400 value specific information. .

- ▶ When adding a user in Select Identity, avoid entering an entitlement (secondary groups) value that is the same value as the Default Group for the system resource. This may cause an entitlement to be inadvertently removed from the user if the user is modified and the Default Group value is changed for that user.

Select Identity Resource Attribute	AS/400 Attribute	Description	Possible Values
UserName	USRPRF	User profile name	
Password	PASSWORD	Logon password	*USERPRF: user profile value *NONE: no value specified
User Class	USRCLS	User's class	*USER, *SECADM, *PGMR, *SYSOPR, *SECOFR
Home Directory	HOMEDIR	User's home directory	*USERPRF: uses /home/ xxxx, where xxxx is the user's profile name
User Dir Description	USRD	Description of the user's directory	
User Directory Id	USRID1	User's directory ID	Can be USRPRF value
User Directory Address	USRID2	Directory address	
System Name	SYSNAME	System name	*LCL: local name *PC: for DSNX users with a personal computer *ERROR: default for unresolved distributions
First Name	FSTNAM	First name	*NONE: no first name specified
Last Name	LSTNAM	Last name	*NONE: no last name specified

Select Identity Resource Attribute	AS/400 Attribute	Description	Possible Values
Middle Name	MIDNAM	Middle name	*NONE: no middle name specified
Preferred Name	PREFNAM	User's preferred name	*NONE: no preferred name specified
[Last Name], [First Name] [Middle Name] ([Preferred Name])	FULNAM	User's full name	*DFT: full name is created from user-defined values specified for the first, middle, last and preferred parameters
Department	DEPT	Company department	*NONE: no value specified
Title	TITLE	User's title	*NONE: no value specified
User Location	LOC	User's geographical location	*NONE: no value specified
Building	BLDG	User's office building	*NONE: no value specified
Office	OFC	User's office	*NONE: no value specified
Company	CMPNY	User's company	*NONE: no value specified
PhBus	TELNBR1	Business phone number	*NONE: no value specified
PhHome	TELNBR2	Home phone number	*NONE: no value specified
Fax Number	FAXTELNBR	Fax number	*NONE: no value specified

Select Identity Resource Attribute	AS/400 Attribute	Description	Possible Values
Address 1	ADDR1	Address line one	*NONE: no value specified
Address 2	ADDR2	Address line two	*NONE: no value specified
Network UserId	NETUSRID	Network user Id	*USRID: use the user ID value
Password Expires	PWDEXP	Password expires flag	*NO: not set to expire *YES: set to expire
Password Expiration Interval	PWDEXPITV	Password expiration interval	*SYSVAL: the QSPCENV system value is used *NOMAX: user is not required to change the password
Authority	AUT	Authority	*ALL: public has all management and data authorities *CHANGE: public can change user profile *USE: public can view user profile *EXCLUDE: public is denied access to user profile

Select Identity Resource Attribute	AS/400 Attribute	Description	Possible Values
User Options	USROPT	User options	<p>*NONE: no value specified</p> <p>*CLKWD: uses keyword instead of parameter values at the CL command prompt</p> <p>*EXPERT: uses expert display information</p> <p>*HLPFULL: displays full help information</p> <p>*PRTMSG: message is sent to user's queue when a spooled file is printed.</p> <p>*ROLLKEY: page up and page down action keys are reversed</p> <p>*NOSTSMMSG: no status messages displayed</p> <p>*STSMMSG: status messages displayed</p>
Primary Group	GRPPRF	User's primary group	*NONE: no value specified
Object Owner	OWNER	Object owner	<p>*USERPRF: user owns any new objects</p> <p>*GRPPRF: group profile is owner of any created objects</p>
Assistance Level	ASTLVL	Assistance level	*SYSVAL, *BASIC, *INTERMED, *ADVANCED
Current Library	CURLIB	Current library	*CRTDFT: no current library

Select Identity Resource Attribute	AS/400 Attribute	Description	Possible Values
Initial Program	INLPGM	Initial program	*NONE: no value specified *LIBL: library list is used to locate the program *CURLIB: current library listed for the user is used to locate the program
Initial Menu	INLMNU	Initial menu	*MAIN: iSeries Main Menu is shown *SIGNOFF: system signs off user when initial program completes
Limit Capabilities	LMTCPB	Limit capabilities	*YES, *PARTIAL, *NO
Description	TEXT	Description	*NONE: no value specified
Special Authority	SPCAUT	Special authority	*USRCLS: special authorities are granted based on the user's class value *NONE: no value specified

Select Identity Resource Attribute	AS/400 Attribute	Description	Possible Values
Special Environment	SPCENV	Special environment	*SYSVAL: the QSPCENV system value is used *NONE: user operates in the iSeries environment *S36: user operates in the System/36 environment if the user's routing program is QCMD
Display Sign-On	DSPSGNINF	Display sign-on	*SYSVAL: the QDSPSGNINF system value is used *NO: sign-on information is not displayed *YES: sign-on information is displayed
Limit Device Sessions	LMTDEVSSN	Limit device sessions	*SYSVAL: the QSPCENV system value is used *NO: user can sign on to more than one device at one time *YES: user cannot sign on to more than one device at one time

Select Identity Resource Attribute	AS/400 Attribute	Description	Possible Values
Keyboard Buffering	KBDBUF	Keyboard buffering	*SYSVAL: the QSPCENV system value is used *NO: type-ahead and attention-key buffering are not active *TYPEAHEAD: type-ahead feature is active *YES: type-ahead and attention-key buffering are active
Maximum Storage	MAXSTG	Maximum storage	*NOMAX: as much storage as required is available
Priority Limit	PTYLMT	Priority limit	*3: default setting. Values can be 1-9 with the highest priority 1.
Job Description	JOB	User's job description	*QDFTJOB: system supplied job description *LIBL: library list is used to locate the description *CURLIB: current library for the job is used to locate the description

Select Identity Resource Attribute	AS/400 Attribute	Description	Possible Values
Group Authority	GRPAUT	Group authority for any object created by the user	*NONE: no value specified *ALL: group profile is given all authority *CHANGE: group profile can change objects created by the user *USE: group profile can view objects created by the user *EXCLUDE: group profile cannot access objects created by the user
Group Authority Type	GRPAUTTYP	User's group authority	*PRIVATE: value used for GRPAUT is assigned as private *PGP: primary group authority specified for GRPAUT
Accounting Code	ACGCDE	User's 15-character accounting code	*BLANK: code of 15 blanks is assigned
Document Password	DOCPWD	Document password	*NONE: no value specified

Select Identity Resource Attribute	AS/400 Attribute	Description	Possible Values
Message Queue	MSGQ	Message queue	*USRPRF: message queue name is the user profile name *LIBL: library list is used to locate the name *CURLIB: current library for the job is used to locate the name
MQ Delivery	DLVRY	Message queue delivery	*NOTIFY: job assigned to the message queue is notified when a message arrives *BREAK: job assigned to the message queue is interrupted when a message arrives *HOLD: messages are held in the queue until requested by user or program *DFT: messages requiring replies are answered with a default
MQ Severity	SEV	Message queue severity	*00: used if severity code is not specified
Print Device	PRTDEV	User's print device	*WRKSTN: printer assigned to the user's workstation *SYSVAL: default printer specified in QPRTDEV

Select Identity Resource Attribute	AS/400 Attribute	Description	Possible Values
Output Queue	OUTQ	User's output queue	<p>*WRKSTN: output queue assigned to the user's workstation</p> <p>*DEV: same as PRTDEV value</p> <p>*LIBL: library list is used to locate the value</p> <p>*CURLIB: current library for the job is used to locate the value</p>
Attention-Key-Handling Program	ATNPGM	Attention key handling program	<p>*SYSVAL: the QATNPGM value is used</p> <p>*NONE: no value specified</p> <p>*ASSIST: Operational Assistant Attention Program is used</p> <p>*LIBL: library list is used to locate the name</p> <p>*CURLIB: current library for the job is used to locate the name</p>

Select Identity Resource Attribute	AS/400 Attribute	Description	Possible Values
Sort Sequence	SRTSEQ	Sort sequence	<p>*SYSVAL: the QSRTSEQ value is used</p> <p>*HEX: standard hexadecimal sort sequence is used</p> <p>*LANGIDSHR: sort sequence used with the user's language ID is used. Table can contain the same weight for multiple characters</p> <p>*LANGIDUNQ: sort sequence used with the user's language ID is used. Table must contain unique weight for each character</p> <p>*LIBL: library list is used to locate the name</p> <p>*CURLIB: current library for the job is used to locate the name</p>
Language Identifier	LANGID	Language identifier	*SYSVAL: the QLANGID value is used
Country/Region Identifier	CNTRYID	User's country or region	<p>*SYSVAL: the QCNTRYID value is used</p> <p>*NONE: no value specified</p>
Coded Character Set Identifier	CCSID	Coded character set identifier	*SYSVAL: the QCCSID value is used

Select Identity Resource Attribute	AS/400 Attribute	Description	Possible Values
Character Identifier Control	CHRIDCTL	Character identifier control	<p>*SYSVAL: the QCHRIDCTL value is used</p> <p>*DEVVD: the CHRID of the device is used to represent the CCSID of the data</p> <p>*JOBCCSID: character conversion occurs with a difference between the CHRID, job CCSID, or data CCSID values</p>
Job Attributes	SETJOBATR	User's job attributes	<p>*SYSVAL: the QSETJOBATR value is used</p> <p>*NONE: no value is used</p> <p>*CCSID: the coded character set ID from the locale is used</p> <p>*DATFMT: uses the date format of the locale</p> <p>*DATSEP: uses the date separator of the locale</p> <p>*DECFMT: uses the decimal format of the locale</p> <p>*SRTSEQ: uses the sort sequence of the locale</p> <p>*TIMSEP: uses the time separator of the locale</p>

Select Identity Resource Attribute	AS/400 Attribute	Description	Possible Values
Locale	LOCALE		*SYSVAL: the QLOCALE value is used *NONE: no value is used *C: assigns the C locale *POSIX: assigns the POSIX locale
Object Auditing	OBJAUD	Object auditing	*NONE: no value is used *CHANGE: if OBJAUD value specifies USRPRF, an audit record is written when the user changes an object *ALL: if OBJAUD value specifies USRPRF, an audit record is written when the user changes or reads an object

Select Identity Resource Attribute	AS/400 Attribute	Description	Possible Values
Action Auditing	AUDLVL	Action auditing for objects	*NONE: no value is used *CMD: command strings are logged *CREATE: create actions are logged *DELETE: delete actions are logged *JOBDATA: job changes are logged *OBJMGT: move and rename actions are logged *OFCSRV: changes to system directory and office mail actions are logged *PGMADP: gaining authority to an object is logged *SAVRST: save and restore actions are logged *SECURITY: security-related actions are logged *SERVICE: use of service tools is logged *SPLFDTA: actions performed on spooled files are logged *SYSMGT: use of system management functions is logged

Configuring the Connector

After you deploy the connector on the application server, you must configure Select Identity to use the connector by deploying it in the Select Identity client. The following provides an overview of the procedures you must complete in order to deploy your connector. It also provides connector-specific information you must provide when configuring Select Identity to use the connector.

- 1 Register the connector with Select Identity by clicking the **Deploy New Connector** button on the Connectors home page. Complete this procedure as described in the “Connectors” chapter of the *HP OpenView Select Identity Administrator Guide*.

After you deploy the connector, the connector properties will look similar to this:

[Home](#) > [Connectors](#)

Type in the name and all necessary information of the connector being deployed. Click "Submit" when finished.

Connector Information	
* Connector Name:	<input type="text" value="AS400Connector"/>
* Pool Name:	<input type="text" value="eis/As400Connector"/>

- 2 Deploy a resource that uses the newly created connector. On the Resources home page, click the **Deploy New Resource** button. When configuring the resource, refer to the following table for parameters specific to this connector:

Field Name	Sample Values	Description
Resource Name	as400_server	Name given to the resource.
Resource Type	AS400	The connector that was deployed in Step 1 on page 30 .
Authoritative Source	No	Whether this resource is a system that is considered to be the authoritative source for user data in your environment. You must specify No because the connector cannot synchronize account data with the Select Identity server.
Associate to Group	Selected	Whether the system uses the concept of groups. For this connector, select this option.
Host Name	server.company.com	The address of the server.
Admin	admin	The administrative login name.
Admin Password	password123	Administrative account password.

Complete the steps in this procedure as described in the “Resources” chapter of the *HP OpenView Select Identity Administrator Guide*. After

you deploy the resource for the connector, the Basic Info page of the resource properties will look similar to this:

[Home](#) > [Resources](#) > [Deploy New Resource](#)

Type in the name and a brief description of the resource being deployed. Next, select the resource type and owner. Click "Save & Continue" when finished.

Resource Information	
* Resource Name:	<input type="text" value="AS400"/>
Resource Description:	<input type="text"/>
* Resource Type:	<input type="text" value="AS400"/>
* Authoritative Source:	<input type="radio"/> Yes <input checked="" type="radio"/> No
* Delete User:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Reconciliation Workflow:	<input type="text" value="ReconciliationDefaultProcess"/>
Resource Owner:	<input type="text" value="sisa"/>

The Additional Info page of the resource properties will look similar to this:

Resource Information	
Resource Name:	AS400
Manage User	
Associate to Group:	<input checked="" type="checkbox"/>

The Access Info page of the resource properties will look like this:

Resource Access Information	
* Resource Name:	AS400
* HostName:	<input type="text" value="192.168.1.109"/>
* Admin:	<input type="text" value="test"/>
* Admin Password:	<input type="password" value="•••••"/>
* Mapping File:	<input type="text" value="As400Mapping.xml"/> View

- 3 Create attributes that link Select Identity to the connector. For each mapping in the connector's mapping file, create an attribute using the Attributes capability on the Select Identity client. Refer to the "Attributes" chapter in the *HP OpenView Select Identity Administrator Guide* for more information.

- 4 Create a Service that will use the newly created resource. To do so, click the **Deploy New Service** button on the Services home page. Complete this procedure as described in “Services” of the *HP OpenView Select Identity Administrator Guide*. You will reference your new resource created in **Step 2** while creating this service.

The following is the recommended order for adding AS/400 attributes and the possible values that will facilitate account provisioning in AS/400 systems. For each attribute that has a value listed in the table, perform the following when creating the attribute in Select Identity.

- Select the **Specified** option for Value Constraint Type on the Information page.
- Add each value as the Constraint Display Name and Constraint Value on the Values page, as shown:

Home > Attributes > Add New Attribute

The Attribute Value Management section allows you to add Select Identity Attribute Values.

Attribute information - test

Constraint Display Name: *USER - *USER

Constraint Value: *SECOFR

Information Values Mapping

Save & Continue Cancel

All of the values in the following table must be added for each attribute.

AS/400 Attributes	Name-Value Pairs
UserName	
FirstName	
Middle Name	
Preferred Name	
Password	
User Class	*USER, *SECOFR, *SECADM, *SYOPR, *PGMR
Primary Group	
AS/400-109_ENTITLEMENTS	
Password Expires	*NO, *YES

AS/400 Attributes	Name-Value Pairs
User Directory Id	
User Directory Address	
User Id	
Home Directory	
User Description	
Addr1	
Addr2	
User Location	
Network UserId	
Title	
Building	
System Name	
Department	
PhHome	
PhBus	
Office	
Company	
Fax Number	
Display Sign-On	*SYSVAL, *NO, *YES
Job Description	
Object Auditing	*NONE, *CHANGE, *ALL
Keyboard Buffering	*SYSVAL, *NO, *YES, *TYPEAHEAD
Sort Sequence	
Message Queue	
MQ Delivery	*NOTIFY, *BREAK, *HOLD, *DFT

AS/400 Attributes	Name-Value Pairs
MQ Severity	
Attention-Key-Handling Program	
Current Library	
Language Identifier	
Authority	*EXCLUDE, *ALL, *CHANGE, *USE
Object Owner	*USRPRF, *GRPPRF
Limit Capabilities	*YES, *PARTIAL, *NO
Maximum Storage	
Country/Region Identifier	
Print Device	
User Options	
Accounting Code	
Coded Character Set Identifier	
Priority Limit	
Locale	
Initial Program	
Group Authority	*NONE, *ALL, *CHANGE, *USE, *EXCLUDE
Initial Menu	
Action Auditing	*NONE, *CMD, *CREATE, *JOBDDTA, *OBJMGT, *OFCSRV, *PGMADP, *SAVRST, *SERVICE, *SPLFDTA, *SYSMGT
Character Identifier Control	*SYSVAL, *DEVD, *JOBCCSID

AS/400 Attributes	Name-Value Pairs
Document Password	
Special Environment	*SYSVAL, *NONE, *S36
Output Queue	

Uninstalling the Connector

If you need to uninstall a connector from Select Identity, make sure that the following are performed:

- All resource dependencies are removed.
- The connector is deleted using the Select Identity client Connectors pages.

Perform the following to delete a connector:

- 1 Log on to the WebLogic Server Console.
- 2 Navigate to *My_Domain* → **Deployments** → **Connector Module**.
- 3 Click the delete icon next to the connector that you want to uninstall.
- 4 Click **Yes** to confirm the deletion.
- 5 Click **Continue**.