

# **HP OpenView Select Identity**

## **Connector for Microsoft Windows NT Domain Systems**

### **Installation Guide**

**Software Version: 3.0.1**



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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.
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- Downloadable documentation
- Troubleshooting information
- Patches and updates
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- Training information
- Support program information

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## Installing the Connector

The NT Domain connector enables HP OpenView Select Identity to manage user data in Windows NT-based systems with Domain Controller. (If your Windows systems are based on Active Directory, you must use the Windows Active Directory connector.) The NT Domain connector is a two-way connector and pushes changes made to user data in the Select Identity database to the target NT Domain server. It also enables the agent on the NT Domain server to send password updates back to Select Identity.



The domain of the application server and NT Domain server must be registered in DNS before you can install this connector.

The mapping files, which are included with the connector, control how Select Identity fields are mapped to NT Domain fields.

The NT Domain connector is packaged in the following files, which are located in the `NTDomain` directory on the Select Identity Connector CD:

- `NTConnector.rar` — contains the binaries for the connector
- `ntschem.jar` — contains the following mapping files:
  - `ntuser.properties` — maps the Select Identity user attributes to the Windows user attributes
  - `ntgroup.properties` — maps the Select Identity group attributes to Windows group attributes; note that group provisioning is not

currently supported, though this file must be extracted during installation

- `NTSetup.zip` — contains the installation executable for the NT Domain agent

## Deploying on the Web Application Server

To install the NT Domain connector on the Select Identity server, complete these steps.



Perform this procedure after the Select Identity product installation. This procedure installs the connector on WebLogic 8.1; you must be familiar with the WebLogic platform.

- 1 Create a subdirectory in the Select Identity home directory, which was created on the application server during the product installation.
- 2 Copy the `NTConnector.rar` file to the new subdirectory.
- 3 Copy the `ntschem.jar` file from the Select Identity Connector CD to a temporary directory.
- 4 Extract the `ntschem.jar` file, which contains the mapping files, to the Select Identity home directory.
- 5 Ensure that the `CLASSPATH` environment variable that is set in the WebLogic startup script references the Select Identity home directory.
- 6 Modify the mapping files, if necessary. See [Understanding the Mapping Files on page 13](#) for details.
- 7 Start the application server if it is not currently running.
- 8 Log on to the WebLogic Server Console.
- 9 Navigate to ***My\_domain*** → **Deployments** → **Connector Modules**.
- 10 Click **Deploy a New Connector Module**.
- 11 Locate and select the `NTConnector.rar` file from the list. It is stored in the connector subdirectory in the Select Identity home directory.
- 12 Click **Target Module**.
- 13 Select the **My Server** (your server instance) check box.



- 14 Click **Continue**. Review your settings.
- 15 Keep all default settings and click **Deploy**.

The Status of Last Action column should display Success.

After installing the connector, log on to the Select Identity client and deploy the connector using the Connector pages. Then, create a resource that represents the connector, and configure a Service that relies on the NT Domain resource. See the *HP OpenView Select Identity Administrator Guide* for procedures. The Resource Access Information appendix provides detailed information about creating an NT Domain resource.

## Installing the Agent on the Windows Server

After you install the NT Domain connector on the Select Identity server, you can install the agent on the Windows NT-based system. The agent is a suite of services and support DLLs deployed on the resource.

The following environment is required:

- Microsoft Windows NT Server or Workstation (Service Pack 6 or later) with Domain Controller, or Windows 2000 Server with Domain Controller
- Internet Explorer 5.5 or later (supporting MSXML 2.0 or later)
- Winsock 2.0 or later

You also need the administrative user name and password to log on to the system during the installation.

Perform the following to install the agent:

- 1 Copy the `NTSetup.zip` file from the Select Identity Connector CD to a directory on the NT Domain server.
- 2 Extract the `NTSetup.zip` file.
- 3 Double-click `SETUP.exe` to start the installation program.
- 4 Click **Next** to proceed through the installation.
- 5 If needed, provide administrative logon information when prompted.

- 6 Configure the NT Connector agent options. The configuration is defined on the HP Openview NT Connector dialog.

- a Select the **Enable NT Connector Agent** check box. This starts the connector, enabling it to receive provisioning requests from Select Identity.
  - b Enter a port number for the agent in the Connector Server Port field. The connector uses this port to communicate with the agent. The default is 5000.
  - c Select the **Enable Log Option** check box.
- 7 Perform the following if you want to synchronize password changes on the Windows server with Select Identity. This step is optional.
- a Ensure that the **Enable Notification Agent** option is *not* selected. This check box is provided for future support; this functionality is not currently supported.
  - b If you want to synchronize the Windows server password with Select Identity, select **Enable Password Synchronization**. This is used by the agent to synchronize user account password changes with Select Identity. The information is sent back to Select Identity in the form of an SPML extendedRequest over SOAP/HTTP or HTTPS.
  - c Enter the IP address of the server running Select Identity in the Server field.
  - d Enter the port of the application server running Select Identity, such as port 7001 for WebLogic, in the Port field.
  - e Enter the base URL for the Select Identity Web Service in the Base field. The default value is /lmz/webservice/.

- f** Select **HTTP** or **HTTPS** from the Server Type drop-down list. This defines the protocol for sending passwords to Select Identity.
- g** If the Select Identity Web Service requires authentication, enter the user name in the User Name field.
- h** Enter the password of account in the Password field.
- i** Keep the default settings in the Time Out and Retries fields. The Time Out field specifies the number of milliseconds after which the request times out. The Retries field specifies the number of retries that the agent will attempt to send the SPML request.
- j** Configure the Operational Attribute settings. This enables you to send operational attributes in SPML requests back to Select Identity (in the header of the request) for synchronization.
  - Enter the name of the administrator account on the NT Domain resource in the UserName field.
  - Enter the password of the administrative account in the Password field.
  - Add the following operational attributes. Click the >> button after each addition.

Attribute Name: **urn:trulogica:concerto:2.0#resourceId**

Attribute Value: ***resource\_name***

where *resource\_name* is the name of the resource that you add in Select Identity for this NT Domain server. For example, if you specify **NT\_LocalMachine** here, you specify **NT\_LocalMachine** as the resource name in Select Identity.

Attribute Name: **urn:trulogica:concerto:2.0#reverseSync**

Attribute Value: **true**

- 8** After defining all of your settings, click **OK**.
- 9** After the installation is complete, click **Finish**.
- 10** Restart the server.

The installation process performed the following:

- Created the target directory with the binaries and support files in the appropriate folders. Places `TLPassfilt.dll` and `TLUtils.dll` in the Windows System directory, `$WinSysPath$` (`c:\winnt\system32`). The following is the folder structure created:
  - `<TARGETDIR>` — The parent folder
  - `<TARGETDIR>\Bin` — Program binaries
  - `<TARGETDIR>\Logs` — Connector log folder
  - `<TARGETDIR>\Map` — Mapping of operational attributes
  - `<TARGETDIR>\Servers` — Server binaries
- Created and configured corresponding services.
- Created a Program group and shortcuts for the connector configuration console and the uninstall script.
- Set up the registry for program parameters.

## Understanding the Mapping Files

This connector is deployed with the following mapping files:

- `ntuser.properties`
- `ntgroup.properties`

These files contain the attributes required by the resource and are used to map user and group account additions and modifications from Select Identity to the system resource. When you deploy a resource through the Resources home page on the Select Identity client, you can review these files.



Note that the `ntgroup.properties` file is installed with the NT Domain connector and must be present on the system, but group provisioning is not supported at this time.

You can create attributes that are specific to Select Identity using the Attributes home page on the Select Identity client. You can then use these attributes to associate Select Identity user accounts with system resources by mapping the attributes in the connector mapping file described in this chapter. This process becomes necessary because, for example, a single attribute “username” can have a different definition on three different resources, such as “login” for UNIX, “UID” for a database, and “userID” on a Windows server.

You do not need to edit the `ntuser.properties` file unless you want to map additional attributes to your resource. This is a text file that maps each Select Identity attribute to an attribute on the resource; the attributes are delimited by `|`. Consider this excerpt:

```
User Name|UserId
```

The Select Identity user attribute is named `User Name` and it is mapped to the `UserId` attribute on the NT Domain resource.

Attributes can be concatenated. The attribute names and the separators must not contain the `|` delimiter. For concatenation, the format is as follows:

```
[<SI Attribute>]<separator>[<SI Attribute>] |<Resource Attribute>
```

as in this example:

```
[First Name] [Last Name]|FullName
```

where `First Name` and `Last Name` are attributes in Select Identity. They are concatenated to form the value of the `FullName` attribute in NT Domain. A space is used as a separator between the two Select Identity attributes.

The `ntuser.properties` file provides the mandatory mappings that must be configured for Select Identity to provision users on the NT Domain server. The primary key is `UserId`; this NT Domain attribute must be mapped to a Select Identity attribute in order for user information to be stored on the NT Domain server. It should be the first entry in `ntuser.properties`, and `Password` must be the second mapping in the file.

The following table provides a list of all NT Domain attributes that you can map if you wish to provision users with this information. Here is a description of the columns provided in the table:

- **Select Identity Resource Attribute**— The attribute used by the NT Domain connector, as defined in the mapping file.
- **NT Domain User Attribute** — The name of the attribute on the Windows server.
- **Label on NT Domain UI** — The name of the property on the Windows UI that corresponds to the attribute on the Windows server.
- **Description** — A description of the attribute and any noteworthy information needed when assigning values to the attribute.

<b>Select Identity Resource Attribute</b>	<b>NT Domain User Attribute</b>	<b>Label on NT Domain UI</b>	<b>Description</b>
User Name	UserId	User Logon Name	Primary key for NT Domain and NT Local User.
Password	Password	Password	The user's password.
[First Name] [Last Name]	FullName	Full Name	The user's full name.
Description	Comment	Description	Description of the user.
CountryId	Country	Country	A DWORD value that indicates the country or region code.
ScriptPath	ScriptPath	Logon Script Name	The path to the user's logon script file, which can be a .CMD, .EXE, or .BAT file.
HomeDirectory	HomeDirectory	Home Directory: Local path or Home Directory: To (depending on HomeDirectory- Drive)	A home share or a local directory path, but not both.
(not mapped by default)	UserComment	User Comment	A comment by the user.

<b>Select Identity Resource Attribute</b>	<b>NT Domain User Attribute</b>	<b>Label on NT Domain UI</b>	<b>Description</b>
(not mapped by default)	ProfilePath (not available for NT Workstation)	User Profile Path	A path to the user's profile. This value can be a null string, a local absolute path, or a UNC path.
(not mapped by default)	HomeDirectory Drive (not available for NT Workstation)	Home Directory: Connect	If a valid drive letter is specified, the HomeDirectory becomes a share path; otherwise, it is considered to be a local directory path.



## 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 Connectors home page on the Select Identity client.

## Uninstalling the Connector

Perform the following to delete a connector:

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

## Uninstalling the Agent

Perform the following steps to delete the agent on the NT Domain system:

- 1 From the Start menu, select **Programs** → **HP OpenView NT Domain Connector** → **Uninstall Agent**.
- 2 Complete the installation as prompted by the wizard.