

HP OpenView Select Identity

Installation Guide for the Windows NT Connector for NT Local Systems

Software Version: 3.0



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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.
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contents

Chapter 1	Installing the Windows NT Local Connector	7
	Web Server Installation	8
	Windows Server Installation	9
Chapter 2	Understanding the Windows NT Local Mapping File	13
	User Attributes	14
	Group Attributes	16
Chapter 3	Uninstalling the Windows NT Local Connector	17
	Uninstalling the Connector	17
	Uninstalling the Agent	18

Installing the Windows NT Local Connector

The Windows NT Local connector enables HP OpenView Select Identity to manage user data in Windows NT Local systems. It is a two-way connector and pushes changes made to user data in the Select Identity database to the target Windows NT Local server. It also enables the agent on the Windows server to update password changes with Select Identity. This connector is generic and can be used to connect to any Windows NT Local system. The mapping file, included with the connector, controls how Select Identity fields are mapped to Windows NT Local fields.

The Windows NT Local connector is packaged in the following files:

- `NTConnector.rar` – Contains the connector code.
- `ntlschema.jar` – Contains the following attribute mapping files
 - `ntuser.properties` – Contains the information for mapping the user attributes from Select Identity User Model to Windows User Attributes.
 - `ntgroup.properties` – Contains the information for mapping the group attributes from Select Identity Group Model to Windows Group Attributes.
- `NTLSetup.zip` – Contains the installation executable for the NT Local agent.

These files are located in the `NTLocal` directory on the Select Identity Connector CD.

Web Server Installation

The Windows NT Local connector installation requires installation on the web server and on the Windows servers storing identity information.



Note that this procedure installs a connector that supports Windows NT Local. Also, the application server in this example is WebLogic 8.1.

Perform this procedure after the Select Identity product installation.

To install the Windows NT Local connector on the Select Identity web server, complete these steps.

- 1 If necessary, stop the application server.
- 2 A `Select_Identity` directory was created on the web server during the product installation. Copy the `NTLConnector.rar` and `ntlschema.jar` files from the Select Identity Connector CD to this directory.
- 3 Extract `ntlschema.jar` and remove the `.jar` file when finished.
- 4 The `startweblogic.cmd` file was edited during the product installation to specify the location of the `Select_Identity` directory. The `startweblogic.cmd` file resides in the `WebLogic_home/user_projects/domains/domain/` directory on WebLogic 8.1.

Ensure that this line `set CLASSPATH=%CLASSPATH%` in the `startweblogic.cmd` file references `C:\Select_Identity` in the class path.
- 5 If needed, start the web server.
- 6 Log in to the WebLogic Administrator Console.
- 7 Navigate to **My_domain -> Deployments -> Connector Modules**.
- 8 Click **Deploy a New Connector Module**.
- 9 Locate and select the `NTLConnector.rar` file from the list. It is stored in the `Select_Identity` directory.
- 10 Click **Target Module**.

- 11 Select the **My Server** (which is your server instance) check box.
- 12 Click **Continue**. Review your settings.
- 13 Keep all default settings and click **Deploy**.
- 14 The Status of Last Action column should display Success.

Windows Server Installation

After you install the Windows Local connector on the Select Identity web server, you can install the agent on the Windows server system resource. The Agent is a suite of Services and support DLLs deployed on the resource.

Ensure that the following system requirements are met:

- Microsoft Windows NT Server/Workstation, Service Pack 6 or later, or one of the following platforms:
 - Windows XP Professional, Service Pack 1
 - Windows 2000 Professional, Service Pack 4
 - Windows 2000 Server
- Internet Explorer 5.5 or later (Supporting MSXML 2.0 or later)
- Winsock 2.0 or later

You will also need the administrative user name and password for the machine during the installation.

Perform the following to install the agent:

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

Configuration is defined on the NTL Connector page.

- 6 Configure the Enable NTL Connector Agent options.
 - a Select the **Enable NTL Connector Agent** check box.
 - b Select the **Enable Log Options** check box.
 - c Enter the port for the agent in the **Connector Server Port** field. The default is 5000.
- 7 Configure the following settings for password synchronization:

The following steps are optional. Perform them if you want to synchronize password changes on the Windows server with Select Identity.

 - a Uncheck the **Enable Notification Agent** option. This option should be unchecked even if you do not want to synchronize the Windows server password with Select Identity.
 - 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 WebLogic port 7001, 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 transfer of passwords back to Select Identity.
- g** Enter the name of the administrator account on the NT machine in the User Name field.
- h** Enter the password of administrator account on the NT machine in the Password field.
- i** Keep the **TimeOut** and **Retries** settings.

Configure the Operational Attribute settings. This enables you to build and send operational Attributes in SPML requests back to Select Identity for synchronization.

- j** Enter the name of the administrator account in Select Identity in the UserName field. The default is **sis**.
- k** Enter the password of the administrative account in Select Identity in the Password field.
- l** Add the following two operational attributes. Click the **>>** button after each addition.

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

Attribute Value: **resource_name**

This is the name of the resource that you add in Select Identity for this NT server. For example, if you specify *NT_LocalMachine* here, then 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 install process performed the following:

- Creates 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
- Creates and configures corresponding services.
 - Creates a Program group and shortcuts for the connector configuration console and the uninstall script.
 - Setup Registry for program parameters.

To test the connector, log in to the Select Identity application and deploy the connector through the Connector pages. See the *HP OpenView Select Identity Administrator Guide* for procedures.

Understanding the Windows NT Local Mapping File

Each connector is deployed with a mapping file that contains the attributes required by the operating system. This file is used to map user account additions and modifications from Select Identity to the system resource. When you deploy a resource through the Select Identity Resources pages, you can review this file.

You can create attributes that are specific to Select Identity through the Attributes pages in the Select Identity client. These attributes can be used to associate Select Identity user accounts with system resources by mapping them to the connector mapping file described in this chapter. This process becomes necessary because 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.

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.

The following is attribute information that is specific to Windows NT Local server systems. This information is included in `ntlschema.jar`, which was extracted into the `Select_Identity` directory on the web server.

The mapping files are `ntluser.properties` and `ntlgroup.properties`. You can modify these files to map attributes from Select Identity to the Windows server.

User Attributes

File	ntuser.properties
Delimiter	' '
Format	<SI User Attribute> <NT User Attribute>

Any number of attributes can be concatenated. The attribute names and the separators must not contain the delimiter '|'. For Concatenation, the format is as follows:

```
[<SI User Attribute>]<delimiter>[<SI User Attribute>]|<NT User Attribute>
```

where the Select Identity user attribute is

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

It is necessary to use the NT User Attribute Name column for mapping in the user properties file.

The primary key for Windows NT Local is UserId. This attribute must be mapped to an attribute in Select Identity in order for user information to be stored on the Windows server. It should be the first entry in ntluser.properties and Password needs to be the second entry.

SI User Attribute	NT Attribute	NT Display	NT Attribute Description
User Name	UserId	User Logon Name	Primary Key for NT Domain and NT Local User
Password	Password	Password	Password
First Name + Last Name	FullName	Full Name	Full Name
Description	Comment	Description	Description

SI User Attribute	NT Attribute	NT Display	NT Attribute Description
UserComment	UserComment	User Comment	Contains a user comment
CountryId	Country	Country	Specifies a DWORD value that indicates the country/region code
ProfilePath	Profile Path (not available for NT Workstation)	User Profile Path	The profilePath property specifies a path to the user's profile. This value can be a null string, a local absolute path, or a UNC path.
ScriptPath	ScriptPath	Logon Script Name	Specifying the path for the user's logon script file. The script file can be a .CMD file, an .EXE file, or a .BAT file.
HomeDirectory	Home Directory	Home Directory: Local path or Home Directory: To (Depending on homeDrive)	Mutually exclusive. Either a home share or a local directory path, but not both.

SI User Attribute	NT Attribute	NT Display	NT Attribute Description
HomeDirectory Drive	Home Directory 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 as the local directory path.
Enable Function	Status	Account Enabled	1 – Enabled
Disable Function	Status	Account Disabled	0 – Disabled

Group Attributes

File	ntlgroup.properties
Delimiter	' '
Format	<SI Group Attribute> <NT Group Attribute>

Use the NT Group Attribute column for mapping in the group properties file.

The primary Key for Windows NT Group is `GroupId` and needs to be mapped to an attribute of in the Select Identity Group Model. This attribute must be the first entry in `ntlgroup.properties` file.

SI Attribute	NT Attribute Name	NT Display Name	NT Attribute Description
GroupId	GroupId	Group Name	Primary Key for the NT Local Group
Description	Comment	Description	Description

Uninstalling the Windows NT Local Connector

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

- All resource dependencies have been removed.
- The connector has been deleted through the Select Identity client Connectors pages.

Uninstalling the Connector

Perform the following to delete a connector:

- 1 Log in 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**.

Uninstalling the Agent

Perform the following steps to delete the agent on the Windows server:

- 1 From the Start menu, open **Programs->HP OpenView NTLocalConnector ->Uninstall Agent**.
- 2 Follow the uninstall prompts.