

Oracle® Identity Manager

Connector Guide for Microsoft Windows 2000

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Preface

Oracle Identity Manager Connector Guide for Microsoft Windows 2000 provides information about integrating Oracle Identity Manager with Microsoft Windows 2000.

Note: Some parts of the product and documentation still refer to the original Thor company name and Xellerate product name and will be rebranded in future releases.

Audience

This guide is intended for users who want to deploy the Oracle Identity Manager connector for Microsoft Windows 2000.

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Related Documents

For more information, refer to the following documents in the Oracle Identity Manager documentation library:

- *Oracle Identity Manager Release Notes*
- *Oracle Identity Manager Installation Guide for JBoss*
- *Oracle Identity Manager Installation Guide for Oracle Containers for J2EE*
- *Oracle Identity Manager Installation Guide for WebLogic*
- *Oracle Identity Manager Installation Guide for WebSphere*
- *Oracle Identity Manager Administrative and User Console Guide*
- *Oracle Identity Manager Administrative and User Console Customization Guide*
- *Oracle Identity Manager Design Console Guide*
- *Oracle Identity Manager Tools Reference Guide*
- *Oracle Identity Manager Audit Report Developer Guide*
- *Oracle Identity Manager Best Practices Guide*
- *Oracle Identity Manager Globalization Guide*
- *Oracle Identity Manager Glossary of Terms*

The following document is available in the Oracle Identity Manager Connector Pack documentation library:

- *Oracle Identity Manager Connector Framework Guide*

Documentation Updates

Oracle is committed to delivering the best and most recent information available. For information about updates to the Oracle Identity Manager Connector Pack Release 9.0.4 documentation library, visit Oracle Technology Network at

<http://www.oracle.com/technology/documentation/index.html>

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

What's New in the Oracle Identity Manager Connector for Microsoft Windows 2000?

This chapter provides an overview of the updates made to the software and documentation for the Microsoft Windows 2000 connector in release 9.0.4 of the Oracle Identity Manager connector pack.

See Also: The 9.0.3 release of this guide for information about updates that were new for the 9.0.3 release

The updates discussed in this chapter are divided into the following categories:

- [Software Updates](#)
These include updates made to the connector software.
- [Documentation-Specific Updates](#)
These include major changes made to the connector documentation. These changes are not related to software updates.

See Also: *Oracle Identity Manager Release Notes*

Software Updates

This section discusses updates made to this release of the connector software.

Enabling Logging

By following the instructions in the "[Enabling Logging](#)" section on page 2-4, you can configure the generation of log information that is specific to the target system.

Testing Utility

The testing utility has been added in this release of the connector. The required information has been added in the following sections:

- [Files and Directories That Comprise the Connector](#) on page 1-2
- [Step 3: Copying the Connector Files](#) on page 2-2
- [Chapter 4, "Testing Connector Functionality"](#) on page 4-1

Documentation-Specific Updates

The following documentation-specific updates have been made in this release of the guide:

- Instructions in the "[Files and Directories That Comprise the Connector](#)" section on page 1-2 have been revised.
- In the "[Step 1: Verifying Deployment Requirements](#)" section on page 2-1, Microsoft Windows Server 2003 has been added as a supported operating system for the computer used as the file server.
- Some of the content from the Chapter 2 of the earlier release of this guide has been moved to [Chapter 3](#).

About the Connector

Oracle Identity Manager automates access rights management, security, and provisioning of IT resources. Oracle Identity Manager connectors are used to integrate Oracle Identity Manager with third-party applications. The connector for Microsoft Windows 2000 is used to integrate Oracle Identity Manager with Microsoft Windows 2000.

Note: Oracle Identity Manager connectors were referred to as *resource adapters* prior to the acquisition of Thor Technologies by Oracle.

This chapter contains the following sections:

- [Provisioning Module](#)
- [Supported Functionality](#)
- [Multilanguage Support](#)
- [Files and Directories That Comprise the Connector](#)
- [Determining the Release Number of the Connector](#)

Provisioning Module

Provisioning involves creating or modifying a user's account information on the target system through Oracle Identity Manager. You use the Administrative and User Console to perform provisioning operations.

See Also: The "Deployment Configurations of Oracle Identity Manager" section in *Oracle Identity Manager Connector Framework Guide* for conceptual information about provisioning

For this target system, the following fields are provisioned:

- New Share Path
- Full Control
- Change
- Read
- Share Path
- Write

- None

Supported Functionality

The following table lists the functions that are available with this connector.

Function	Type	Description
Create Directory for User	Provisioning	Creates a directory
Create Share	Provisioning	Creates a share on a directory
Add User To Folder	Provisioning	Adds a user to a shared directory
Delete Share	Provisioning	Deletes the share on a provisioned directory
Write Updated	Provisioning	Updates the properties of a directory according to a change in the Write permission attribute
None Updated	Provisioning	Updates the properties of a directory according to a change in the No Sharing Permissions attribute
Full Control Updated	Provisioning	Updates the properties of a directory according to a change in the Full Control Permission attribute
Change Updated	Provisioning	Updates the properties of a directory according to a change in the Change Permission attribute
Read Updated	Provisioning	Updates the properties of a directory according to a change in the Read Permission attribute
Remove User From Folder	Provisioning	Removes the rights given to a user on a shared directory

Multilanguage Support

The connector supports the following languages:

- Chinese Simplified
- Chinese Traditional
- English
- French
- German
- Italian
- Japanese
- Korean
- Portuguese (Brazilian)
- Spanish

See Also: *Oracle Identity Manager Globalization Guide* for information about supported special characters

Files and Directories That Comprise the Connector

The files and directories that comprise this connector are compressed in the following directory on the installation media:

Operating Systems/Microsoft Windows 2000

These files and directories are listed in the following table.

File in the Installation Media Directory	Description
dll/tcWindowsNT40.dll	This DLL file contains the native code required for provisioning directories on a Microsoft Windows 2000/2003 server.
lib/xliWindowsNT4.jar	This JAR file contains the class files required for provisioning.
Files in the <code>resources</code> directory	Each of these resource bundle files contains language-specific information that is used by the connector. Note: A resource bundle is a file containing localized versions of the text strings that are displayed on the user interface of Oracle Identity Manager. These text strings include GUI element labels and messages displayed on the Administrative and User Console.
test/config/config.properties	This file contains the attributes for Oracle Identity Manager to connect to the target system and perform provisioning operations.
test/config/debug.properties	This file contains the debug parameter that you use to specify whether or not the connector must run in debug mode.
test/scripts/runWindowsTest.bat test/scripts/runWindowsTest.sh	This file is used to start the testing utility.
xml/Windows2000Object_DM.xml	This XML file contains definitions for the following components of the connector: <ul style="list-style-type: none"> ■ IT resource type ■ Custom process form ■ Process task and adapters (along with their mappings) ■ Resource object ■ Provisioning process ■ Pre-populate rules ■ Reconciliation process ■ Lookup definitions

Note: The files in the `test` directory are used only to run tests on the connector.

The "[Step 3: Copying the Connector Files](#)" section on page 2-2 provides instructions to copy these files into the required directories.

Determining the Release Number of the Connector

You can use any one of the following methods to determine the release number of the connector.

Before Deployment

To determine the release number of a connector:

1. Extract the contents of the `xliWindowsNT4.jar` file. This file is in the following directory on the installation media:

`Operating Systems/Microsoft Windows 2000/lib`

2. Open the `manifest.mf` file in a text editor. The `manifest.mf` file is one of the files bundled inside the `xliWindowsNT4.jar` file.

In the `manifest.mf` file, the release number of the connector is displayed as the value of the `Version` property.

Note: If you maintain a copy of the `xliWindowsNT4.jar` file after deployment, you can use this method to determine the release number of the connector at any stage. After you deploy the connector, it is recommended that you use the "After Deployment" method, which is described in the following section.

After Deployment

To determine the release number of a connector that has already been deployed:

See Also: *Oracle Identity Manager Design Console Guide*

1. Open the Oracle Identity Manager Design Console.
2. In the Form Designer, open the process form. The release number of the connector is the value of the **Version** field.

Deploying the Connector

Deploying the connector involves the following steps:

- [Step 1: Verifying Deployment Requirements](#)
- [Step 2: Configuring the Target System](#)
- [Step 3: Copying the Connector Files](#)
- [Step 4: Configuring the Oracle Identity Manager Server](#)
- [Step 5: Importing the Connector XML File](#)

Step 1: Verifying Deployment Requirements

The following table lists the deployment requirements for the connector.

Item	Requirement
Oracle Identity Manager	Oracle Identity Manager release 8.5.3 or later
Target systems	The target system can be any one of the following: <ul style="list-style-type: none"> ■ Microsoft Windows 2000 ■ Microsoft Windows 2003
Target system host platform	The target system host platform can be any one of the following: <ul style="list-style-type: none"> ■ Microsoft Windows 2000 Professional ■ Microsoft Windows 2000 Server SP4 ■ Microsoft Windows 2003 Server SP1
Infrastructure requirements	An additional computer running any one of the following operating systems: <ul style="list-style-type: none"> ■ Microsoft Windows 2000 ■ Microsoft Windows 2003 This computer is meant for use as a file server.
Other applications	Microsoft Active Directory
Target system user account	Microsoft Windows 2000/2003 File Server administrator You provide the credentials of this user account while performing the procedure in the "Defining IT Resources" section on page 2-5.

Step 2: Configuring the Target System

To configure the target system:

1. Ensure that the Microsoft Active Directory connector is installed on the target Microsoft Windows 2000/2003 server.
2. Configure the file server and the target Microsoft Windows 2000/2003 server on the domain on which you install Microsoft Active directory.

Step 3: Copying the Connector Files

The connector files to be copied and the directories to which you must copy them are given in the following table.

Note: The directory paths given in the first column of this table correspond to the location of the connector files in the following directory on the installation media:

Operating Systems/Microsoft Windows 2000

Refer to the "[Files and Directories That Comprise the Connector](#)" section on page 1-2 for more information about these files.

File in the Installation Media Directory	Destination Directory
dll/tcWindowsNT40.dll	<i>OIM_home/xellerate/XLIntegrations/Windows2000/dll</i> <ul style="list-style-type: none"> ■ For Oracle Containers for J2EE (OC4J), you must also copy this file into the following directory: <i>OC4J_home/bin</i> ■ For BEA WebLogic, you must also copy this file into the following directory: <i>WebLogic_home/server/bin</i>
lib/xliWindowsNT4.jar	<i>OIM_home/xellerate/JavaTasks</i> <i>OIM_home/xellerate/ScheduleTask</i>
Files in the resources directory	<i>OIM_home/xellerate/connectorResources</i>
Files in the test/config directory	<i>OIM_home/xellerate/XLIntegrations/Windows2000/config</i>
Files in the test/scripts directory	<i>OIM_home/xellerate/XLIntegrations/Windows2000/scripts</i>
xml/Windows2000Object_DM.xml	<i>OIM_home/xellerate/XLIntegrations/Windows2000/xml</i>

Note: While installing Oracle Identity Manager in a clustered environment, you copy the contents of the installation directory to each node of the cluster. Similarly, you must copy the `connectorResources` directory and the JAR files to the corresponding directories on each node of the cluster.

Step 4: Configuring the Oracle Identity Manager Server

Configuring the Oracle Identity Manager server involves performing the following steps:

Note: In a clustered environment, you must perform this step on each node of the cluster.

- [Deploying the Microsoft Active Directory Connector](#)
- [Modifying the xlStartServer.bat File](#)
- [Changing to the Required Input Locale](#)
- [Clearing Content Related to Connector Resource Bundles from the Server Cache](#)
- [Enabling Logging](#)

Deploying the Microsoft Active Directory Connector

Deploy the Microsoft Active Directory connector before you can deploy and use the Microsoft Windows 2000 connector. In addition, the Microsoft Windows 2000 user account must be provisioned only to an Xellerate User who already has a Microsoft Active Directory user account provisioned.

You must deploy the connector for Microsoft Active Directory in the following directory:

`OIM_home/xellerate/XLIntegrations/ActiveDirectory`

See Also: *Oracle Identity Manager Connector Guide for Microsoft Active Directory*

Modifying the xlStartServer.bat File

Use a text editor to open the following file:

`OIM_home/xellerate/bin/xlStartServer.bat`

Add the following line at the start of this file:

`SET PATH=OIM_home/xellerate/XLIntegrations/Windows2000/dll`

Changing to the Required Input Locale

Changing to the required input locale (language and country setting) involves installing the required fonts and setting the required input locale.

You may require the assistance of the system administrator to change to the required input locale.

Clearing Content Related to Connector Resource Bundles from the Server Cache

While performing the instructions described in the "[Step 3: Copying the Connector Files](#)" section on page 2-2, you copy files from the `resources` directory on the installation media into the `OIM_home/xellerate/connectorResources` directory. Whenever you add a new resource bundle in the `connectorResources` directory or make a change in an existing resource bundle, you must clear content related to connector resource bundles from the server cache.

To clear content related to connector resource bundles from the server cache:

1. In a command window, change to the `OIM_home/xellerate/bin` directory.

Note: You must perform Step 1 before you perform Step 2. If you run the command described in Step 2 as follows, then an exception is thrown:

```
OIM_home\xellerate\bin\batch_file_name
```

2. Enter one of the following commands:

- On Microsoft Windows:

```
PurgeCache.bat ConnectorResourceBundle
```

- On UNIX:

```
PurgeCache.sh ConnectorResourceBundle
```

Note: You can ignore the exception that is thrown when you perform Step 2.

In this command, `ConnectorResourceBundle` is one of the content categories that you can remove from the server cache. Refer to the following file for information about the other content categories:

```
OIM_home/xellerate/config/xlConfig.xml
```

Enabling Logging

When you enable logging, Oracle Identity Manager automatically stores in a log file information about events that occur during the course of provisioning and reconciliation operations.

To enable logging:

1. Use a text editor to open the following file:

```
OIM_home/xellerate/XLIntegrations/Windows2000/config/debug.properties
```

2. In this file, set the value of the `debug` attribute to `true`.

Note: If you want to disable logging, set the value of the `debug` attribute to `false`.

Step 5: Importing the Connector XML File

To import the connector XML file into Oracle Identity Manager:

1. Open the Oracle Identity Manager Administrative and User Console.
2. Click the **Deployment Management** link on the left navigation bar.
3. Click the **Import** link under Deployment Management. A dialog box for locating files is displayed.

4. Locate and open the `Windows2000Object_DM.xml` file, which is in the `OIM_home/xellerate/XLIntegrations/Windows2000/xml` directory. Details of this XML file are shown on the File Preview page.
5. Click **Add File**. The Substitutions page is displayed.
6. Click **Next**. The Confirmation page is displayed.
7. Click **Next**. The Provide IT Resource Instance Data page for the `W2K File Server` IT resource is displayed.
8. Specify values for the parameters of the `W2K File Server` IT resource. Refer to the table in the "[Defining IT Resources](#)" section on page 2-5 for information about the values to be specified.
9. Click **Next**. The Provide IT Resource Instance Data page for a new instance of the `W2K File Server` IT resource type is displayed.
10. Click **Skip** to specify that you do not want to define another IT resource. The Confirmation page is displayed.

See Also: If you want to define another IT resource, then refer to *Oracle Identity Manager Tools Reference Guide* for instructions.

11. Click **View Selections**.

The contents of the XML file are displayed on the Import page. You *may* see a cross-shaped icon along with some nodes. These nodes represent Oracle Identity Manager entities that are redundant. Before you import the connector XML file, you must remove these entities by right-clicking each node and then selecting **Remove**.

12. Click **Import**. The connector XML file is imported into Oracle Identity Manager. After you import the connector XML files, proceed to the next chapter.

Defining IT Resources

You must specify values for the `W2K File Server` IT resource parameters listed in the following table.

Parameter	Parameter Description
<code>AdminName</code>	User ID of the admin user on the Microsoft Windows 2000 computer that is used as the file server
<code>AdminPassword</code>	Password of the admin user on the Microsoft Windows 2000 computer that is used as the file server
<code>ComputerName</code>	Host name or IP address of the Microsoft Windows 2000 computer that is used as the file server
<code>DomainName</code>	Domain of the Microsoft Windows 2000 computer that is used as the file server

After you specify values for these IT resource parameters, proceed to Step 9 of the procedure to import connector XML files.

Configuring the Connector

After you deploy the connector, you must configure it to meet your requirements. This chapter discusses the following connector configuration procedures:

Note: These sections provide both conceptual and procedural information about configuring the connector. It is recommended that you read the conceptual information before you perform the procedures.

- [Configuring Provisioning](#)
- [Configuring the Connector for Multiple Installations of the Target System](#)

Configuring Provisioning

As mentioned earlier in this guide, provisioning involves creating or modifying a user's account information on the target system through Oracle Identity Manager.

Note: You must perform this procedure if you want to use the provisioning features of the connector.

Adapters are used to implement provisioning functions. The following adapters are imported into Oracle Identity Manager when you import the connector XML file:

See Also: The "[Supported Functionality](#)" section on page 1-2 for a listing of the provisioning functions that are available with this connector

- Win2K Create Directory
- Win2K Delete Share
- Win2K Add User To Folder
- Win2K Target Server Update
- Win2K Update File Server
- Win2K Update Share Path
- Win2K Remove User From Folder
- Win2K Delete User Share Directory

- Win2K Chk Process User
- Win2K Create Share

You must compile these adapters before they can be used in provisioning operations.

To compile adapters by using the Adapter Manager form:

1. Open the Adapter Manager form.
2. To compile all the adapters that you import into the current database, select **Compile All**.

To compile multiple (but not all) adapters, select the adapters you want to compile. Then, select **Compile Selected**.

Note: Click **Compile Previously Failed** to recompile only those adapters that were not compiled successfully. Such adapters do not have an OK compilation status.

3. Click **Start**. Oracle Identity Manager compiles the selected adapters.
4. If Oracle Identity Manager is installed in a clustered environment, then copy the compiled adapters from the *OIM_home/xellerate/Adapter* directory to the same directory on each of the other nodes of the cluster. If required, overwrite the adapter files on the other nodes.

If you want to compile one adapter at a time, then use the Adapter Factory form.

See Also: *Oracle Identity Manager Tools Reference Guide* for information about using the Adapter Factory and Adapter Manager forms

To view detailed information about an adapter:

1. Highlight the adapter in the Adapter Manager form.
2. Double-click the row header of the adapter, or right-click the adapter.
3. Select **Launch Adapter** from the shortcut menu that is displayed. Details of the adapter are displayed.

Configuring the Connector for Multiple Installations of the Target System

Note: Perform this procedure only if you want to configure the connector for multiple installations of Microsoft Windows 2000.

You may want to configure the connector for multiple installations of Microsoft Windows 2000. The following example illustrates this requirement:

The Tokyo, London, and New York offices of Acme Multinational Inc. have their own installations of Microsoft Windows 2000. The company has recently installed Oracle Identity Manager, and they want to configure Oracle Identity Manager to link all the installations of Microsoft Windows 2000.

To meet the requirement posed by such a scenario, you must configure the connector for multiple installations of Microsoft Windows 2000.

To configure the connector for multiple installations of the target system:

See Also: *Oracle Identity Manager Design Console Guide* for detailed instructions on performing each step of this procedure

1. Create and configure one IT resource for each target system installation.

The IT Resources form is in the Resource Management folder. An IT resource is created when you import the connector XML file. You can use this IT resource as the template for creating the remaining IT resources, of the same resource type.

2. If required, modify the fields to be reconciled for the Xellerate User resource object.

When you use the Administrative and User Console to perform provisioning, you can specify the IT resource corresponding to the Microsoft Windows 2000 installation to which you want to provision the user.

Testing Connector Functionality

You can use the testing utility to directly use the connector for identifying the cause of problems associated with connecting to the target system server and performing basic operations on the target system.

To use the testing utility:

1. Open the following file:

```
OIM_home/xellerate/Windows2000/config/config.properties
```

2. Specify values for the attributes in this file. These attributes are described in the following table.

Attribute	Description	Sample Value
Action	Specifies the provisioning action to be performed by the testing utility	CREATE_DIRECTORY CREATE_SHARE DELETE_SHARE
Admin_ID	Specifies the user ID of the Microsoft Windows 2000 or 2003 server administrator	dmsadmin
Domain_Name	Specifies the domain name of the Microsoft Windows 2000 or 2003 server	sagemdms
Computer_Name	Specifies the IP address or computer name of the Microsoft Windows 2000 or 2003 server	172.21.106.90
Share_Path	Specifies the share path Note: The path separator must be '\\\' and not '\\\'.	c:\\temp
Share_Name	Specifies the name of the share	testshare

3. Run the testing utility file.

- For Microsoft Windows, run the following file:

```
OIM_home/xellerate/XLIntegrations/Windows2000/scripts/runWindowsTest.bat
```

- For UNIX, run the following file:

```
OIM_home/xellerate/XLIntegrations/Windows2000/scripts/runWindowsTest.sh
```

4. If the script runs without any error, then verify that the required provisioning action has been carried out on the target system.

Known Issues

The following are known issues associated with this release of the connector:

- To enable folders to be created on a target system on which the Japanese or French language is in use, Oracle Identity Manager must be running on a server on which the same language, Japanese or French, is in use.

Attribute Mappings Between Oracle Identity Manager and Microsoft Windows 2000

The following table discusses attribute mappings between Oracle Identity Manager and Microsoft Windows 2000.

To view the Microsoft Windows 2000 attributes listed in the table:

1. Click **Start, Programs, Administrative Tools, and Computer Management**.
2. Expand **Shared Folders**.
3. Click **Shares**.
4. Right-click the folder that is generated after the user is provisioned.
5. Select **Properties**.
6. Click the **Security** tab.

The attributes listed in the table are GUI elements in the Permission for Administrators area.

Oracle Identity Manager Attribute	Microsoft Windows 2000 Attribute
Share Path	Folder Path
Full Control	Full Control
Change	Modify
Write	Write
Read	Read
None	The check boxes in the Deny column must be selected. Alternatively, the check boxes in the Allow column must not be selected.
New Share Path	Folder Path

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