

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.

Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible, with good usability, to the disabled community. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at

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Related Documents

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

- *Oracle Identity Manager Release Notes*
- *Oracle Identity Manager Installation and Upgrade Guide for JBoss*
- *Oracle Identity Manager Installation and Upgrade Guide for WebLogic*
- *Oracle Identity Manager Installation and Upgrade 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 Connector Guide for BMC Remedy User Management*
- *Oracle Identity Manager Connector Guide for CA-ACF2 Advanced*
- *Oracle Identity Manager Connector Guide for CA-Top Secret Advanced*
- *Oracle Identity Manager Connector Guide for Database Application Tables*
- *Oracle Identity Manager Connector Guide for Database User Management*
- *Oracle Identity Manager Connector Guide for IBM RACF*
- *Oracle Identity Manager Connector Guide for IBM RACF Advanced*
- *Oracle Identity Manager Connector Guide for IBM Lotus Notes and Domino*
- *Oracle Identity Manager Connector Guide for Microsoft Active Directory*
- *Oracle Identity Manager Password Synchronization Module for Microsoft Active Directory Installation and Configuration Guide*
- *Oracle Identity Manager Connector Guide for Microsoft Exchange 2000 and 2003*
- *Oracle Identity Manager Connector Guide for Microsoft Exchange 5.5*
- *Oracle Identity Manager Connector Guide for Microsoft Windows 2000*
- *Oracle Identity Manager Connector Guide for Microsoft Windows NT 4.0*
- *Oracle Identity Manager Connector Guide for Novell eDirectory*
- *Oracle Identity Manager Connector Guide for Novell GroupWise*
- *Oracle Identity Manager Connector Guide for Oracle e-Business Employee Reconciliation*
- *Oracle Identity Manager Connector Guide for Oracle e-Business User Management*
- *Oracle Identity Manager Connector Guide for Oracle Internet Directory*
- *Oracle Identity Manager Connector Guide for PeopleSoft Employee Reconciliation*

- *Oracle Identity Manager Connector Guide for PeopleSoft User Management*
- *Oracle Identity Manager Connector Guide for Siebel Enterprise Applications*
- *Oracle Identity Manager Connector Guide for RSA Authentication Manager*
- *Oracle Identity Manager Connector Guide for RSA ClearTrust*
- *Oracle Identity Manager Connector Guide for SAP CUA*
- *Oracle Identity Manager Connector Guide for SAP Employee Reconciliation*
- *Oracle Identity Manager Connector Guide for SAP Enterprise Portal*
- *Oracle Identity Manager Connector Guide for SAP User Management*
- *Oracle Identity Manager Connector Guide for Sun Java System Directory*
- *Oracle Identity Manager Connector Guide for UNIX SSH*
- *Oracle Identity Manager Connector Guide for UNIX Telnet*

Documentation Updates

Oracle is committed to delivering the best and most recent information available. For information about updates to the Oracle Identity Manager 9.0.2 connector documentation set, 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.
<code>monospace</code>	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 connector and documentation for Microsoft Windows 2000 in release 9.0.2 of the Oracle Identity Manager connector pack.

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 the following software updates implemented in this release of the connector.

Incorporation of Multilanguage Support

In addition to English, this release of the connector supports the French and Japanese languages. The following are documentation updates pertaining to the incorporation of this feature:

- The installation media directory includes resource bundle files for the languages supported by the connector. These resource bundle files are described in the ["Files and Directories That Comprise the Connector"](#) section on page 1-2.
- The ["Step 3: Copying the Connector Files"](#) section on page 2-2 provides the destination directory into which you must copy the resource bundle files during the deployment procedure.
- The ["Step 4: Configuring the Oracle Identity Manager Server"](#) section on page 2-2 describes the procedure to change to the required input locale and to clear content related to connector resource bundles from the server cache.
- [Chapter 3, "Known Issues"](#) discusses a new issue related to the use of non-English locales.

Determining the Release Number of the Connector

Instructions to determine the release number of the connector are given in the ["Determining the Release Number of the Connector"](#) section on page 1-3.

Functionality Modified to Use AD User objectGUID Instead of USN

In this release of the connector, the AD User objectGUID is used instead of the USN.

Documentation-Specific Updates

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

- Instructions to copy the connector JAR files and adapter files to all the nodes of a clustered environment have been added in the following sections:
 - [Step 3: Copying the Connector Files](#) on page 2-2
 - [Step 4: Configuring the Oracle Identity Manager Server](#) on page 2-2
 - [Step 6: Compiling Adapters](#) on page 2-5
- Oracle Identity Manager uses a Microsoft Windows 2000 user account to connect to and exchange data with Microsoft Windows 2000. The ["Step 6: Compiling Adapters"](#) section on page 2-5 provides information about the minimum rights that must be assigned to this user account.
- Instructions to use Oracle Identity Manager for linking multiple installations of Microsoft Windows 2000 are given in the ["Configuring the Connector for Multiple Installations of the Target System"](#) section on page 2-6.
- [Appendix A](#) provides information about attribute mappings between Oracle Identity Manager and Microsoft Windows 2000.

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:

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

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 on the Microsoft Windows 2000 server
Create Share	Provisioning	Creates a share on a directory on the Microsoft Windows 2000 server
Add User To Folder	Provisioning	Adds a user to a shared directory on the Microsoft Windows 2000 server
Delete Share	Provisioning	Deletes the share on a provisioned directory on the Microsoft Windows 2000 server
New Share Path Updated	Provisioning	Updates the properties of a directory on the Microsoft Windows 2000 server according to a change in the New Share Path attribute
Write Updated	Provisioning	Updates the properties of a directory on the Microsoft Windows 2000 server according to a change in the Write permission attribute

Function	Type	Description
None Updated	Provisioning	Updates the properties of a directory on the Microsoft Windows 2000 server according to a change in the No Sharing Permissions attribute
Full Control Updated	Provisioning	Updates the properties of a directory on the Microsoft Windows 2000 server according to a change in the Full Control Permission attribute
Change Updated	Provisioning	Updates the properties of a directory on the Microsoft Windows 2000 server according to a change in the Change Permission attribute
Read Updated	Provisioning	Updates the properties of a directory on the Microsoft Windows 2000 server according to a change in the Read Permission attribute
Update Share Path	Provisioning	Updates the properties of a directory on the Microsoft Windows 2000 server according to a change in the Share Path attribute
Remove User From Folder	Provisioning	Removes the rights given to a user on a shared directory on the Microsoft Windows 2000 server

Multilanguage Support

In addition to English, this release of the connector supports the following languages:

- French
- Japanese

Provisioning Module

The following fields are provisioned:

- New Share Path
- Full Control
- Change
- Read
- Share Path
- Write
- None

Files and Directories That Comprise the Connector

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

Operating Systems\Microsoft Windows\Microsoft Windows2000 Rev 2.2.0.zip

These files and directories are listed in the following table.

File in the Installation Media Directory	Description
xml\Windows2000Object_DM.xml	<p>This XML file contains definitions for the following components of the connector:</p> <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
lib\xliWindowsNT4.jar	This JAR file contains the class files required for provisioning and reconciliation.
dll\tcWindowsNT40.dll	This DLL file contains the native code required for provisioning directories on a Microsoft Windows 2000 server.
Files in the resources directory	Each of these files contains locale-specific information that is used by the connector.
docs\B32159_01.pdf	This guide, which provides instructions to deploy 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

To determine the release number of the connector:

1. Extract the contents of the `xliWindowsNT4.jar` file. This file is in the `lib` directory inside the installation media directory.
2. Open the `manifest.mf` file in a text editor, which 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.

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 6: Compiling Adapters](#)

If you want to configure the connector for multiple installations of Microsoft Windows 2000, then perform the following procedure:

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

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
Infrastructure requirements	An additional computer running any one of the following operating systems: <ul style="list-style-type: none">■ Microsoft Windows 2000 Professional■ Microsoft Windows 2000 Server This computer is meant for use as a file server.
Other applications	Microsoft Active Directory
Target system user account	Microsoft Windows 2000 File Server administrator You provide the credentials of this user account while performing the procedure in the " Defining IT Resources " section on page 2-4.

Step 2: Configuring the Target System

To configure the target system:

1. Ensure that Microsoft Active Directory is installed on the target Microsoft Windows 2000 server.
2. Configure the file server and the target Microsoft Windows 2000 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 ZIP file on the installation media:

Operating System\Microsoft Windows\Microsoft Windows 2000 Rev 2.2.0.zip

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
xml\Windows2000Object_DM.xml	<i>OIM_home</i> \xellerate\XLIntegrations\Microsoft Windows 2000\xml
lib\xliWindowsNT4.jar	<i>OIM_home</i> \xellerate\JavaTasks <i>OIM_home</i> \xellerate\ScheduleTask
dll\tcWindowsNT40.dll	<i>OIM_home</i> \xellerate\XLIntegrations\Microsoft Windows 2000\dll
Files in the resources directory	<i>OIM_home</i> \xellerate\connectorResources
docs\B32159_01.pdf	<i>OIM_home</i> \xellerate\docs\Microsoft Windows 2000

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

To configure the Oracle Identity Manager server:

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

1. 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*

2. Edit 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
```

3. Change to the required input locale as follows:
 - a. Open Control Panel.
 - b. Double-click **Regional Options**.
 - c. On the Input Locales tab of the Regional Options dialog box, add the input locale that you want to use and then switch to the input locale.
4. Clear the server cache.

Clearing Content Related to Connector Resource Bundles from the Server Cache

Whenever you add a new resource bundle file in the `OIM_home\xellerate\connectorResources` directory or make a change in an existing resource bundle file, 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.
2. Enter one of the following commands:

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

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

- On Microsoft Windows:

```
PurgeCache.bat ConnectorResourceBundle
```

- On UNIX:

```
PurgeCache.sh ConnectorResourceBundle
```

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
```

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

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\XMLIntegrations\Microsoft Windows 2000\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 2-4 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. Remove these nodes 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 ["Step 6: Compiling Adapters"](#) section on page 2-5.

Defining IT Resources

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

Parameter	Parameter Description
AdminName	User ID of the admin user on the Microsoft Windows 2000 computer that is used as the file server
AdminPassword	Password of the admin user on the Microsoft Windows 2000 computer that is used as the file server

Parameter	Parameter Description
ComputerName	Host name or IP address of the Microsoft Windows 2000 computer that is used as the file server
DomainName	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.

Step 6: Compiling Adapters

The following adapters are imported into Oracle Identity Manager when you import the connector XML file:

- 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 you can use them to provision accounts on the target system.

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. Then, restart each node.

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.

Note: To compile one adapter at a time, use the Adapter Factory form. Refer to *Oracle Identity Manager Tools Reference Guide* for information about using the Adapter Factory and Adapter Manager forms.

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. Refer to *Oracle Identity Manager Design Console Guide* for detailed instructions on performing each step of this procedure.

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

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.

Known Issues

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

- A share is created with full control only. The rest of the permissions are not reflected.
- A share created through provisioning is not deleted even after the Delete Share function is run.

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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