

**Oracle® Identity Manager**

Connector Guide for Microsoft Windows 2000

Release 9.0.1

**B31122-01**

June 2006

Oracle Identity Manager Connector Guide for Microsoft Windows 2000, Release 9.0.1

B31122-01

Copyright © 2006, Oracle. All rights reserved.

Primary Authors: Debapriya Datta, Shiladitya Guha

Contributing Authors: Don Gosselin, Lyju Vadassery

The Programs (which include both the software and documentation) contain proprietary information; they are provided under a license agreement containing restrictions on use and disclosure and are also protected by copyright, patent, and other intellectual and industrial property laws. Reverse engineering, disassembly, or decompilation of the Programs, except to the extent required to obtain interoperability with other independently created software or as specified by law, is prohibited.

The information contained in this document is subject to change without notice. If you find any problems in the documentation, please report them to us in writing. This document is not warranted to be error-free. Except as may be expressly permitted in your license agreement for these Programs, no part of these Programs may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose.

If the Programs are delivered to the United States Government or anyone licensing or using the Programs on behalf of the United States Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the Programs, including documentation and technical data, shall be subject to the licensing restrictions set forth in the applicable Oracle license agreement, and, to the extent applicable, the additional rights set forth in FAR 52.227-19, Commercial Computer Software--Restricted Rights (June 1987). Oracle USA, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

The Programs are not intended for use in any nuclear, aviation, mass transit, medical, or other inherently dangerous applications. It shall be the licensee's responsibility to take all appropriate fail-safe, backup, redundancy and other measures to ensure the safe use of such applications if the Programs are used for such purposes, and we disclaim liability for any damages caused by such use of the Programs.

Oracle, JD Edwards, PeopleSoft, and Siebel are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

The Programs may provide links to Web sites and access to content, products, and services from third parties. Oracle is not responsible for the availability of, or any content provided on, third-party Web sites. You bear all risks associated with the use of such content. If you choose to purchase any products or services from a third party, the relationship is directly between you and the third party. Oracle is not responsible for: (a) the quality of third-party products or services; or (b) fulfilling any of the terms of the agreement with the third party, including delivery of products or services and warranty obligations related to purchased products or services. Oracle is not responsible for any loss or damage of any sort that you may incur from dealing with any third party.

---

---

# Contents

<b>Preface</b> .....	v
Audience .....	v
Documentation Accessibility .....	v
Related Documents .....	vi
Documentation Updates .....	vi
Conventions .....	vi
<b>1 About the Connector</b>	
Supported Functionality .....	1-1
Provisioning Module .....	1-2
Files and Directories That Comprise the Connector .....	1-2
<b>2 Deploying the Connector</b>	
Step 1: Verifying Deployment Requirements .....	2-1
Step 2: Configuring the Target System .....	2-1
Step 3: Configuring the Oracle Identity Manager Server .....	2-1
Step 4: Copying the Connector Files .....	2-2
Step 5: Importing the Connector XML File .....	2-2
Defining IT Resources .....	2-3
Step 6: Compiling Adapters .....	2-4
<b>3 Known Issues</b>	
<b>Index</b>	



---

---

# Preface

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

---

---

**Note:** This is a transitional release following Oracle's acquisition of Thor Technologies. 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

<http://www.oracle.com/accessibility/>

### Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

### Accessibility of Links to External Web Sites in Documentation

This documentation may contain links to Web sites of other companies or organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these Web sites.

## TTY Access to Oracle Support Services

Oracle provides dedicated Text Telephone (TTY) access to Oracle Support Services within the United States of America 24 hours a day, seven days a week. For TTY support, call 800.446.2398.

## 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 Framework Guide*
- *Oracle Identity Manager Connector Guide for Microsoft Active Directory*

## Documentation Updates

Oracle is committed to delivering the best and most recent information available. For information about updates to the Oracle Identity Manager 9.0.1 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:

<b>Convention</b>	<b>Meaning</b>
<b>boldface</b>	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.

---



---

## 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](#)
- [Provisioning Module](#)
- [Files and Directories That Comprise 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
Delete Folder Share Directory	Provisioning	Deletes a provisioned 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
New Share Path Updated	Provisioning	Updates the configuration of a directory according to a change in the New Share Path attribute
Write Updated	Provisioning	Updates the configuration of a directory according to a change in the Write permission attribute
None Updated	Provisioning	Updates the configuration of a directory according to a change in the No Sharing Permissions attribute
Update Share Path	Reconciliation	Updates the configuration of a directory according to a change in the Share Path attribute

Function	Type	Description
Remove User From Folder	Reconciliation	Removes a user from a shared directory
Full Control Updated	Reconciliation	Updates the configuration of a directory according to a change in the Full Control Permission attribute
Change Updated	Reconciliation	Updates the configuration of a directory according to a change in the Change Permission attribute
Read Updated	Reconciliation	Updates the configuration of a directory according to a change in the Read Permission attribute

## Provisioning Module

The following fields of 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 2.1.0.zip

These files and directories are listed in the following table.

File in the Installation Media Directory	Description
xml\Windows2000Object_DM.xml	This XML file contains the following components of the connector: <ul style="list-style-type: none"> <li>■ IT resource type</li> <li>■ Custom process form</li> <li>■ Process task and adapters (along with their mappings)</li> <li>■ Resource object</li> <li>■ Provisioning process</li> <li>■ Pre-populate rules</li> <li>■ Reconciliation process</li> <li>■ Lookup definitions</li> </ul>
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.

<b>File in the Installation Media Directory</b>	<b>Description</b>
docs\B31122_01.pdf docs\html	These are PDF and HTML versions of this guide, which provides instructions to deploy the connector.

The "[Step 4: Copying the Connector Files](#)" section on page 2-2 provides instructions to copy these files into the required directories.



---

---

## Deploying the Connector

Deploying the connector involves the following steps:

- [Step 1: Verifying Deployment Requirements](#)
- [Step 2: Configuring the Target System](#)
- [Step 3: Configuring the Oracle Identity Manager Server](#)
- [Step 4: Copying the Connector Files](#)
- [Step 5: Importing the Connector XML File](#)
- [Step 6: Compiling Adapters](#)

### 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 system	Microsoft Windows 2000
Infrastructure requirements	An additional computer running one of the following: <ul style="list-style-type: none"><li>■ Microsoft Windows 2000 Professional</li><li>■ Microsoft Windows 2000 Server</li></ul> This computer is meant for use as a file server.
Other applications	Microsoft Active Directory

### 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: Configuring the Oracle Identity Manager Server

For configuring the Oracle Identity Manager server, perform the following steps:

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 should 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:

```
xellerate_home\xellerate\XLIntegrations\ActiveDirectory
```

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

2. Edit the following file:

```
xellerate_home\xellerate\bin\xlStartServer.bat
```

In this file, add the following line at the start:

```
SET PATH=xellerate_home\xellerate\XLIntegrations\Windows2000\dll
```

## Step 4: 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 2.1.0.zip
```

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

---



---

File in the Installation Media Directory	Destination Directory
xml\Windows2000Object_DM.xml	xellerate_home\xellerate\XLIntegrations\Microsoft Windows 2000\xml
lib\xliWindowsNT4.jar	xellerate_home\xellerate\Javatasks
dll\tcWindowsNT40.dll	xellerate_home\xellerate\XLIntegrations\Microsoft Windows 2000\dll
The following contents of the docs directory: B31122_01.pdf html	xellerate_home\xellerate\XLIntegrations\Microsoft Windows 2000\docs

## 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 `xellerate_home\xellerate\XLIntegrations\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 2-3 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. You must remove these nodes. To do this, right-click each such node and then select **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 2-4.

## Defining IT Resources

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

Parameter Name	Parameter Description
<code>AdminName</code>	User ID of the admin user on the Microsoft Windows 2000 computer that is used as the file server Sample value: <code>administrator</code>
<code>AdminPassword</code>	Password of the admin user on the Microsoft Windows 2000 computer that is used as the file server Sample value: <code>password</code>
<code>ComputerName</code>	Host name or the 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 Sample value: <code>DOMAIN</code>

After you specify values for these IT resource parameters, go 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. You must compile these adapters before you can use them to provision accounts on the target system.

- Win2K Create Directory
- Win2K Delete Share
- Win2K Target Server Update
- 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

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 the **Compile All** option.

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

3. Click **Start**. Oracle Identity Manager compiles the adapters that you specify.

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 multiple adapters simultaneously, use the Adapter Manager form. To compile one adapter at a time, use the Adapter Factory form. Refer to *Oracle Identity Manager Tools Reference Guide* for information about how to use these forms.

---

---

---

---

## 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 successfully.



---

---

# Index

## A

---

Adapter Factory form, 2-4  
Adapter Manager form, 2-4  
adapters compiling, 2-4  
Administrative and User Console, 2-2

## C

---

compiling adapters, 2-4  
configuring Oracle Identity Manager server, 2-1  
configuring target system, 2-1  
connector files and directories  
  copying, 2-2  
  description, 1-2  
  destination directories, 2-2  
  installation media file, 1-2, 2-2  
connector XML files  
  *See* XML files

## D

---

defining IT resources, 2-3  
deployment requirements, 2-1

## F

---

files  
  *See also* XML files  
files and directories of the connector  
  *See* connector files and directories  
functionality supported, 1-1  
functions available, 1-1

## I

---

importing connector XML files, 2-2  
issues, 3-1  
IT resources  
  defining, 2-3  
  parameters, 2-3  
  types, `IT_Resource_Type`, 2-3  
  W2K File Server, 2-3

## O

---

Oracle Identity Manager Administrative and User

  Console, 2-2

Oracle Identity Manager server configuration, 2-1

## P

---

parameters of IT resources, 2-3  
problems, 3-1  
process tasks, 1-1  
provisioning  
  fields, 1-2  
  functions, 1-1  
  module, 1-2

## R

---

reconciliation  
  functions, 1-1  
requirements for deploying, 2-1

## S

---

supported  
  functionality, 1-1  
  releases of Oracle Identity Manager, 2-1  
  target systems, 2-1

## T

---

target system configuration, 2-1  
target systems supported, 2-1

## X

---

XML files  
  copying, 2-2  
  description, 1-2  
  importing, 2-2

