

Oracle® Identity Manager

Connector Guide for Microsoft Exchange 5.5

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Preface

Oracle Identity Manager Connector Guide for Microsoft Exchange 5.5 provides information about integrating Oracle Identity Manager with Microsoft Exchange 5.5.

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 Exchange 5.5.

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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 Framework Guide*
- Connector guides for various third-party applications

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:

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.

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 Exchange 5.5 is used to integrate Oracle Identity Manager with Microsoft Exchange 5.5.

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](#)
- [Reconciliation Module](#)
- [Provisioning Module](#)
- [Files and Directories That Comprise the Connector](#)

Supported Functionality

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

Process Task	Type	Description
Create Mailbox	Provisioning	Creates a mailbox in Microsoft Exchange 5.5
Delete User	Provisioning	Deletes a provisioned mailbox from Microsoft Exchange 5.5
Add User to Distribution List	Provisioning	Adds a mailbox to a distribution list in Microsoft Exchange 5.5
Disable Mailbox	Provisioning	Disables a provisioned mailbox in Microsoft Exchange 5.5
Check Distribution List	Provisioning	Checks whether or not a mailbox exists in a distribution list in Microsoft Exchange 5.5
Display Name Updated	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Display Name attribute
Enable Mailbox Updated	Provisioning	Enables a disabled mailbox in Microsoft Exchange 5.5

Process Task	Type	Description
Hide from Address Book	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Hide from Address Book attribute
Income Mail Size Updated	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Income Mail Size attribute
Issue Warning Size Updated	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Issue Warning Size attribute
Major Business Updated	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Major Business attribute
Mobile Number Updated	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Mobile Number attribute
Other SMTP Addr Updated	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Other SMTP Addr attribute
Outgoing Mail Size Updated	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Outgoing Mail Size attribute
Primary SMTP Addr Updated	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Primary SMTP Addr attribute
Prohibit Send Size Updated	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Prohibit Send Size attribute
Prohibit SR Updated	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Prohibit SR attribute
Remove from Distribution List	Provisioning	Removes a mailbox from a distribution list in Microsoft Exchange 5.5
Set Bloomberg Email Address	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Bloomberg Email Address attribute
Set Contact Information	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Contact Information attribute
Set Desk Location	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Desk Location attribute
Set Disable Mailbox Time Stamp	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Disable Mailbox Time Stamp attribute
Set Employee Type	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Employee Type attribute
Set HR ID	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the HR ID attribute

Process Task	Type	Description
Set HR Information	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the HR Information attribute
Set Income Mailsize	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Income Mailsize attribute
Set Issue Warning Size	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Issue Warning Size attribute
Set Mailbox Type	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Mailbox Type attribute
Set Middle Initial	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Middle Initial attribute
Set Outgoing Mail Size	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Outgoing Mail Size attribute
Set PL Proceeded 177	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the PL Proceeded with 177 attribute
Set Prohibit Send Size	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Prohibit Send Size attribute
Set Prohibit SR	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Prohibit SR attribute
Set Registered Representative	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Registered Representative attribute
Set Routing Email Address	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the Routing Email Address attribute
User Alias Name Updated	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the User Alias Name attribute
X400 Addr Updated	Provisioning	Updates the configuration of a mailbox in Microsoft Exchange 5.5 according to a change in the X400 Addr attribute
Create Mailbox	Reconciliation	Reconciles a mailbox from Microsoft Exchange 5.5 into Oracle Identity Manager

Reconciliation Module

The reconciliation module extracts the following elements from the target system to construct reconciliation event records:

- Initials
- State
- EmployeeNumber
- Assistant

- Bloomberg Addr
- Desk Location
- Directory Name
- Distribution List
- Income Mail Size
- Issue Warning Size
- Mailbox Type
- Major Business Number
- Other Business Number
- Other SMTP Addr
- Outgoing Mail Size
- PL Proceeded 177
- Primary SMTP Addr
- Prohibit Send Size
- Prohibit SR
- Registered Represent
- Routing Email Addr
- Site
- User Alias Name
- X400 Addr
- Division

Provisioning Module

The following fields are provisioned:

- Distribution List
- Primary SMTP Addr
- Other SMTP Addr
- X400 Addr
- Site
- Directory Name
- Employee Type
- Routing Email Addr
- Registered Represent
- Desk Location
- PL Proceeded 177
- Bloomberg Addr
- Mailbox Type

- Assistant
- Mobile Number
- Pager Number
- Major Business Number
- Other Business Number
- Prohibit SR
- Income Mail Size
- Outgoing Mail Size
- Issue Warning Size
- Prohibit Send Size
- User Alias Name
- Display Name

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:

Collaboration and Messaging Applications\Microsoft Exchange\Microsoft Exchange 55 Rev 3.3.1.zip

These files and directories are listed in the following table.

File in the Installation Media Directory	Description
xml\Exchange55Object_DM.xml	<p>This XML file contains the Oracle Identity Manager components of the connector related to the Microsoft Exchange 5.5 provisioning module. These components include:</p> <ul style="list-style-type: none"> ■ IT resource type ■ Custom process form ■ Process task and adapters (along with their mappings) ■ Login resource object ■ Provisioning process ■ Pre-populate rules
xml\Exchange55SchedulerTask_DM.xml	<p>This XML file contains the Oracle Identity Manager components of the connector related to the Microsoft Exchange 5.5 reconciliation module. These components include:</p> <ul style="list-style-type: none"> ■ Reconciliation task ■ Reconciliation task attributes
lib\xliExchange55.jar	This JAR file contains the class files required for provisioning and reconciliation.
Utilities\Exchange55Utility\dll\Exchange55.dll	This DLL file contains the native code executables used by the connector.
Utilities\Exchange55Utility\dll\ADsSecurity.dll	This DLL provides COM objects that assist in the creation of Exchange mailboxes.

File in the Installation Media Directory	Description
docs\B31121_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 2-3 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 Files](#)
- [Step 6: Configuring Reconciliation](#)
- [Step 7: 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 Exchange 5.5
Target system host platforms	Microsoft Windows NT 4.0 Server or Microsoft Windows 2000 Server
Other applications	<ul style="list-style-type: none"> ■ Microsoft Windows NT Service Pack 6 (If Exchange 5.5 Server uses a NT domain controller, this pack would be needed on the domain controller) ■ Microsoft Exchange 5.5 Service Pack 4 (on the Microsoft Exchange 5.5 server) ■ Microsoft Active Directory <p>If the Microsoft Exchange 5.5 server uses a Microsoft Windows 2003 domain controller, this service would be needed on the domain controller.</p>

Step 2: Configuring the Target System

In addition to the requirements mentioned in the previous section, you must ensure that the following requirements are met:

- The LDAP protocol is enabled on the Microsoft Exchange 5.5 server.

- Microsoft Windows NT Service Pack 6 is installed, if the target server is running Microsoft Windows NT 4 Server.
- Microsoft Exchange 5.5 Service Pack 4 is installed on the target Microsoft Windows NT 4.0 or Microsoft Windows 2000 Server computer.
- If you are using Microsoft Exchange installed on a Microsoft Windows 2000 server that is controlled by a Primary Domain Controller along with a Microsoft Active Directory installation, then ensure that the following configuration is set:
 - The Windows account that is used to log in to the Oracle Identity Manager server before running Oracle Identity Manager must have Domain controller and Exchange Server Administrator rights.
 - The user credentials in Exchange IT Resource must correspond to a Windows account that has Domain controller and Exchange Server Administrator rights.

Here, Xellerate User is the account used to log in to Oracle Identity Manager and Exchange IT Resource User is the account described in the `administratorName` and `administratorPassword` IT resource parameters.

Step 3: Configuring the Oracle Identity Manager Server

The steps to configure the Oracle Identity Manager server depend on the domain controller that is in use:

- If Microsoft Exchange 5.5 uses a Windows NT server as its domain controller:

You must deploy the Microsoft Windows NT connector before you can deploy and use the Microsoft Exchange 5.5 connector.

See Also: *Oracle Identity Manager Connector Guide for Microsoft Windows NT 4.0*

- If Microsoft Exchange 5.5 uses a Microsoft Windows 2000/2003 server as its domain controller, then you must deploy the Microsoft Active Directory connector before you can deploy and use the Microsoft Exchange 5.5 connector. Deploy the connector for Microsoft Active Directory in the following directory:

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

In addition, you must perform the following steps:

1. Configure and set the following DLLs in the system path:

```
xellerate_home\xellerate\XLIntegrations\Exchange55\dll\ADsSecurity.dll  
xellerate_home\xellerate\XLIntegrations\Exchange55\dll\Exchange55.dll
```

2. Edit the following file:

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

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

```
SET  
PATH=xellerate_home\xellerate\XLIntegrations\Exchange55\dll\ADsSecurity.dll;xel  
lerate_home\xellerate\XLIntegrations\Exchange55\dll\Exchange55.dll
```

3. To register the DLLs, enter the following command:

```
regsvr32 ADsSecurity.dll
```

- Restart the Oracle Identity Manager server.

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:

Collaboration and Messaging Applications\Microsoft Exchange\Microsoft Exchange 55 Rev 3.3.1.zip

Refer to "[Files and Directories That Comprise the Connector](#)" on page 1-5 for more information about these files.

Files in the Installation Media Directory	Destination Directory
The following files in the xml directory: Exchange55Object_DM.xml Exchange55SchedulerTask_DM.xml	<i>xellerate_home</i> \xellerate\XLIntegrations\Exchange55\xml
lib\xliExchange55.jar	<i>xellerate_home</i> \xellerate\JavaTasks
The following files in the Utilities\Exchange55Utility\dll directory: Exchange55.dll ADsSecurity.dll	<i>xellerate_home</i> \xellerate\JavaTasks <i>xellerate_home</i> \xellerate\ScheduleTask
The following contents of the docs directory: B31121_01.pdf html	<i>xellerate_home</i> \xellerate\docs

Step 5: Importing the Connector XML Files

To import the connector XML files into Oracle Identity Manager:

- Open the Oracle Identity Manager Administrative and User Console.
- Click the **Deployment Management** link on the left navigation bar.
- Click the **Import** link under Deployment Management. A dialog box for locating files is displayed.
- Locate and open the Exchange55Object_DM.xml file, which is in the *xellerate_home*\xellerate\XLIntegrations\Exchange55\xml directory. Details of this XML file are shown on the File Preview page.
- Click **Add File**. The Substitutions page is displayed.
- Click **Next**. The Confirmation page is displayed.
- Click **Next**. The Provide IT Resource Instance Data page for the Exchange 55 Server - Dev IT resource is displayed.

8. Specify values for the parameters of the Exchange 55 Server - Dev 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 Exchange 5.5 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.
13. Perform the same procedure to import the Exchange55SchedulerTask_DM.xml file, which is in the `xellerate_home\xellerate\XLIntegrations\Exchange55\xml` directory.

After you import the connector XML files, proceed to the ["Step 6: Configuring Reconciliation"](#) section on page 2-5.

Defining IT Resources

You must specify values for the Exchange 55 Server - Dev IT resource parameters listed in the following table.

Parameter Name	Parameter Description
Server	Host name of the target Microsoft Windows NT 4.0 computer on which Microsoft Exchange 5.5 server is installed Sample value: xchangehost
administratorName	User ID of the Microsoft Windows NT 4 admin account that is used to create users or mailboxes Sample value: administrator
administratorPassword	Password of the Microsoft Windows NT 4 admin account that is used to create users or mailboxes Sample value: password
domain	Domain of the Microsoft Exchange 5.5 server Sample value: adomain
administratorDN	Full distinguished name (DN) of the administrator Sample value: cn=administrator, cn=Recipients, ou=adomain, o=engineering
organization	Organization name, as configured on the Microsoft Exchange 5.5 server Sample value: engineering

Parameter Name	Parameter Description
rootOrganizationDN	DN of the root element, with site and organization details Sample value: ou=adomain_site,o=engineering
site	Site name, as configured on the Microsoft Exchange 5.5 server Sample value: site
Last Check Time	Time at which the last reconciliation run was completed This is in the timestamp format YYYYMMDDHHMMSSZ . At the end of each reconciliation run, the value is updated with the target system timestamp at that instance. Sample value: 19721001000000Z The initial value must be 0 .

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

Step 6: Configuring Reconciliation

Configuring reconciliation involves creating the reconciliation scheduled task. To create this scheduled task:

1. Open the Oracle Identity Manager Design Console.
2. Expand the **Xellerate Administration** folder.
3. Select **Task Scheduler**.
4. Click **Find**. The details of the predefined scheduled task are displayed.
5. Enter a number in the **Max Retries** field. This number represents the number of times Oracle Identity Manager should attempt to complete the task before assigning the `ERROR` status to the task.
6. Ensure that the **Disabled** and **Stop Execution** check boxes are cleared.
7. In the Start region, double-click the **Start Time** field. From the date-time editor that is displayed, select the date and time at which you want the task to run.
8. In the Interval region, set the following schedule parameters:
 - To set the task to run on a recurring basis, select the **Daily, Weekly, Recurring Intervals, Monthly, or Yearly** option.
If you select the **Recurring Intervals** option, then you must also specify the time interval at which you want the task to run on a recurring basis.
 - To set the task to run only once, select the **Once** option.
9. Provide values for the attributes of the scheduled task. Refer to the appropriate table in the "[Specifying Values for the Scheduled Task Attributes](#)" section on page 2-6 for information about the values to be specified.

See Also: *Oracle Identity Manager Design Console Guide* for information about adding and removing task attributes
10. Click **Save**. The scheduled task is created. The `INACTIVE` status is displayed in the **Status** field, because the task is not currently running. The task is run at the date and time that you set in Step 7.

After you create the scheduled task, proceed to the "[Step 7: Compiling Adapters](#)" section on page 2-6.

Specifying Values for the Scheduled Task Attributes

You must specify values for the following attributes of the reconciliation scheduled task.

Note: Attribute values are predefined in the connector XML file that you import. Specify values only for those attributes that you want to change.

Attribute Name	Description	Sample Value
Server	Name of the Exchange 5.5 IT Resource instance	Exchange 55 Server - Dev

After you specify values for these scheduled task attributes, go to Step 10 of the procedure to create scheduled tasks.

Step 7: 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.

- Exch55 Add To Group
- Exch55 Create Group
- Exch55 mailbox creation
- Exch55 Delete Mailbox
- Exch55 Modify Property
- Exch55 modify secondary email address
- Exch55 Modify Property Size
- Exch55 Remove From Group
- Exch55 set contact information
- Set Time Stamp
- Exch55 set HR information

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.

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 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 is a known issue associated with this release of the connector:

The `Server` parameter of the IT resource accepts only the host name of the Microsoft Windows computer on which Microsoft Exchange Server 5.5 is installed. It does not work if the IP address of the computer is provided as the input.

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