Oracle® Identity Manager

Readme

Release 9.1.0.1

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The Oracle Identity Manager release 9.1.0.1 patch set enables you to upgrade to Oracle Identity Manager release 9.1.0.1 from release 9.1.0. This document contains release notes and installation instructions for the patch set.

This document is divided into the following sections:

- What's New in Oracle Identity Manager Release 9.1.0.1?
- Certified Components
- Resolved Issues
- Known Issues and Workarounds
- Upgrading to Oracle Identity Manager Release 9.1.0.1
- Customizations
- Related Documents
- Documentation Accessibility

1 What's New in Oracle Identity Manager Release 9.1.0.1?

The following are new features in Oracle Identity Manager release 9.1.0.1:

- Support for Oracle WebLogic Server 10.3
- Support for JBoss Application Server 4.2.3 (both nonclustered and clustered configurations)

2 Certified Components

> **Note:** Microsoft SQL Server is not supported in release 9.1.0.1.

This section identifies components certified with Oracle Identity Manager release 9.1.0.1 and contains the following topics:

- Section 2.1, "Certified Operating Systems"
- Section 2.2, "Certified Application Servers"
- Section 2.3, "Certified Databases"
- Section 2.4, "Certified JDKs"
- Section 2.5, "Certified Configurations"

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2.1 Certified Operating Systems

Oracle Identity Manager release 9.1.0.1 is certified for the following operating systems:

- AIX 5L Version 5.3 (pSeries 64-bit)
- Microsoft Windows Server 2003 R2 (Intel x86 32-bit and EM64T/AMD 64-bit)
- Microsoft Windows Server 2003 R2 (Itanium 64-bit)
- Microsoft Windows Vista Ultimate
- Oracle Enterprise Linux 4 and 5 (Intel x86 32-bit and EM64T/AMD 64-bit)
- Oracle Virtualization Machine - OEL4
- Red Hat Enterprise Linux AS Release 4 and 5 (Intel x86 32-bit and EM64T/AMD 64-bit)
- Red Hat Enterprise Linux AS Release 4 (Itanium 64-bit)
- Solaris Operating System 10 (UltraSparc 64-bit)
- HP-UX 11.23 (PA-RISC/Itanium 64-bit)
- SUSE Linux Enterprise 10 (Intel x86 32-bit and EM64T/AMD 64-bit)
- SUSE Linux Enterprise Server 10 (Itanium 64-bit)

2.2 Certified Application Servers

Oracle Identity Manager release 9.1.0.1 is certified for the following application servers:

- Oracle WebLogic Server 10.3
- IBM WebSphere Application Server 6.1.0.19 and later fix packs (that is, 6.1.0.19 and later)
- JBoss Application Server 4.2.3 GA
- Oracle Application Server 10.1.3.3 and later (Upgrade patch 10.1.3.3 applied on top of the base package bundled in Oracle SOA Suite 10g Release 10.1.3.1)

2.3 Certified Databases

Oracle Identity Manager release 9.1.0 is certified for the following databases:

- Oracle Database Deployment
  - Oracle9*i* Database Enterprise Edition release 9.2.0.8
  - Oracle Database 10g Enterprise Edition release 10.1.0.5 and later patch sets (that is, 10.1.0.6 and later)

- Oracle Database 10*g* Standard Edition and Enterprise Edition release 10.2.0.1 and later

- Oracle Database 11*g* Standard Edition and Enterprise Edition release 11.1.0.6 and later patch sets

■ Oracle RAC Deployment

- Oracle Database 10*g* Enterprise Edition release 10.2.0.3 and later patch sets

- Oracle Database 11*g* Enterprise Edition release 11.1.0.6 and later patch sets

2.4 Certified JDKs

For each certified application server, Oracle Identity Manager release 9.1.0.1 is certified for the JDKs listed in Table 1.

Table 1   Certified JDKs

Application Server	Certified JDK
Oracle WebLogic Server	■ Sun JDK 1.6.0_10 and later (that is, 1.6.0_*x*)
	■ jrockit_160_05 and later (that is, 1.6.0_x)
IBM WebSphere Application Server	IBM JDK 1.5.0 and later (supported with IBM WebSphere)
JBoss Application Server	Sun JDK 1.6.0_10 and later (that is, 1.6.0_x)
Oracle Application Server	Sun JDK 1.5.0_06 and later
	Sun JDK 1.5.0_12 and later (for Microsoft Windows Vista Ultimate only)
	IBM JDK 1.5.0 and later, included with Oracle Application Server (for AIX only)

2.5 Certified Configurations

Oracle Identity Manager release 9.1.0.1 is certified for the configurations listed in Table 2.

> **Note:**
>
> Unless stated otherwise, the configurations listed in Table 2 are certified for both clustered and nonclustered configurations.
>
> For information about the certified releases of application servers and databases, refer to the "Certified Application Servers" and "Certified Databases" sections.

Table 2   Certified Configurations for Release 9.1.0.1

Operating System	Application Server	Database	Languages
AIX	IBM WebSphere Application Server	Oracle Database	All 10 administrative languages and Danish
	Oracle Application Server	Oracle Database	All 10 administrative languages and Danish

Table 2 (Cont.) Certified Configurations for Release 9.1.0.1

Operating System	Application Server	Database	Languages
Microsoft Windows Server	Oracle WebLogic Server	Oracle Database	All 10 administrative languages and Danish
	IBM WebSphere Application Server	Oracle Database	All 10 administrative languages and Danish
	JBoss Application Server	Oracle Database	All 10 administrative languages and Danish
	Oracle Application Server	Oracle Database	All 10 administrative languages and Danish
Microsoft Windows Vista Ultimate	Oracle Application Server Refer to the note after this table for additional information about the Microsoft Windows Vista and Oracle Application Server combination.	Oracle Database	All 10 administrative languages and Danish
Oracle Enterprise Linux	Oracle Application Server	Oracle Database	All 10 administrative languages and Danish
	Oracle WebLogic Server	Oracle Database	All 10 administrative languages and Danish
Oracle Virtualization Machine	Oracle Application Server	Oracle Database	All 10 administrative languages and Danish
	Oracle WebLogic Server	Oracle Database	All 10 administrative languages and Danish
Red Hat Enterprise Linux AS	Oracle WebLogic Server	Oracle Database	All 10 administrative languages and Danish
	IBM WebSphere Application Server	Oracle Database	All 10 administrative languages and Danish
	JBoss Application Server	Oracle Database	All 10 administrative languages and Danish
	Oracle Application Server	Oracle Database	All 10 administrative languages and Danish
Solaris Operating System	Oracle Application Server	Oracle Database	All 10 administrative languages and Danish
	IBM WebSphere Application Server	Oracle Database	All 10 administrative languages and Danish
HP-UX	Oracle Application Server	Oracle Database	All 10 administrative languages and Danish
SUSE Linux Enterprise 10	Oracle Application Server	Oracle Database	All 10 administrative languages and Danish

> **Note:**
>
> - For the production deployment of Oracle Identity Manager, you must configure Oracle AQ as the JMS provider. Because of Bug 6718332, Oracle AQ-based JMS cannot be configured on Microsoft Vista at this time. Microsoft Vista is, therefore, supported for only nonclustered development environments with file-based JMS.
>
> - To update Oracle Application Server JDKs for DST 2007 compliance, you must use the appropriate time zone update utility from your JDK vendor. For information about using JDK vendor time zone update utilities, refer to Note 414153.1 on the Oracle*MetaLink* Web site.
>
>   You can access the Oracle*MetaLink* Web site at
>
>   https://metalink.oracle.com/
>
> - Oracle Identity Manager release 9.1.0.1 with IBM WebSpere and Oracle Application Server is not certified on Red Hat Enterprise Linux AS 5 and Oracle Enterprise Linux 5.
>
> - Oracle Identity Manager release 9.1.0.1 with Oracle WebLogic Server and JBoss Application Server is not certified on Microsoft Windows and Linux Itanium 64-bit servers.

2.6 Certified Design Console Operating Systems

The Design Console of Oracle Identity Manager release 9.1.0.1 is certified on the following operating systems:

- Microsoft Windows Server 2003

- Microsoft Windows XP

- Microsoft Windows Vista Ultimate, for an Oracle Identity Manager installation on Oracle Application Server running on Microsoft Windows Vista Ultimate

2.7 Certified Remote Manager Operating Systems

The Remote Manager of Oracle Identity Manager release 9.1.0.1 is certified on the following operating systems:

- AIX 5L Version 5.3 (pSeries 64-bit)

- Microsoft Windows Server 2003 R2 (Intel x86 32-bit and EM64T/AMD 64-bit)

- Microsoft Windows Server 2003 R2 (Itanium 64-bit)

- Microsoft Windows Vista Ultimate

- Oracle Enterprise Linux Release 4 and 5 (Intel x86 32-bit and EM64T/AMD 64-bit)

- Oracle Virtualization Machine - OEL4

- Red Hat Enterprise Linux AS Release 4 and 5 (Intel x86 32-bit and EM64T/AMD 64-bit)

- Red Hat Enterprise Linux AS Release 4 (Itanium 64-bit)

- Solaris Operating System 10 (UltraSparc 64-bit)

- HP-UX 11.23 (PA-RISC/Itanium 64-bit)

- SUSE Linux Enterprise Server 10 (Intel x86 32-bit and EM64T/AMD 64-bit)

- SUSE Linux Enterprise Server 10 (Itanium 64-bit)

2.8 Certified Single Sign-On Components

Oracle Identity Manager release 9.1.0.1 is certified for Single Sign-On with the following components:

- Oracle Access Manager 10.1.4.0.1 or later (formerly known as Oracle COREid) using both ASCII and non-ASCII character logins.

  > **Note:** Single Sign-On with Oracle Access Manager 10.1.4.0.1 for non-ASCII character logins requires an Oracle Access Manager patch. Contact your Oracle Support representative and refer to Bug 5552617 for information about the appropriate Oracle Access Manager patch.

- OracleAS Single Sign-On 10*g* 10.1.4.0.1 or later for both ASCII and non-ASCII character logins.

- RSA ClearTrust 5.5 for ASCII character logins only.

  > **See Also:** *Oracle Identity Manager Best Practices Guide* for additional information about configuring Single Sign-On for Oracle Identity Manager with Oracle Access Manager and OracleAS Single Sign-On

2.9 Certified Languages

Oracle Identity Manager release 9.1.0.1 is certified for the following languages:

- Chinese (Simplified)

- Chinese (Traditional)

- Danish

- English

- French

- German

- Italian

- Japanese

- Korean

- Portuguese (Brazilian)

  The combination of the Portuguese (Brazilian) locale and IBM WebSphere Application Server is not supported. For more information, refer to APAR IZ01077 on the IBM WebSphere Application Server Web site.

- Spanish

  > **See Also:** *Oracle Identity Manager Globalization Guide* for detailed information about Oracle Identity Manager globalization support

2.10 Certified Web Browsers

Oracle Identity Manager release 9.1.0.1 is certified for Microsoft Internet Explorer 6.0 (SP2) and Internet Explorer 7 with SUN Java Plug-in 1.6.0_07.

3 Resolved Issues

The following table lists issues resolved in Oracle Identity Manager release 9.1.0.1:

Bug Number	Description
6892404	On the Edit Organization page, the Company organization type was displayed in a non-English environment, regardless of the selected organization type.
6688552	The entity adapter in the Pre-Insert event handler was never called.
6408608	Some error messages were not displayed correctly on the Administrative and User Console.
6858609	The response for a provisioning operation that was not successful was not correctly processed and displayed.
6774013	A user could not be created if a password policy with expiration date set was applied to the user.
6474349	The JspException exception was thrown if a date field was added to the FormMetaData.xml file, which holds the definition of the Modify Account Profile page.
6603729	The external URL for accessing the Forgot Password page did not work for Oracle Identity Manager installed on Oracle Application Server.
6781129	In an Oracle RAC environment, no exception was sent to the caller of the reconciliation APIs if database failover occurred during reconciliation.
6433821	If the number of characters that constituted group names exceeded 4000 characters, then the ORA-06512 exception was thrown during generation of the Policy Detail and Policy List reports.
6864058	If a user was created with the user login of a deleted user, then the system used the Password Expiry date of the deleted user.
6902218	The Add Field Map feature of the Reconciliation Field Mapping form did not respond when you tried to display the list of process data fields.
6484893	Check boxes on the object form for the Request Provisioning feature were automatically selected when you opened the lookup.
5719567	A resource object that was in the Waiting state could not be revoked.
6141655	A system error was thrown if a user tried to perform actions for which permissions were not assigned to the user.
6364002	Reconciliation of a user from Microsoft Active Directory failed if the user belonged to a group whose name contained the word `union` as a substring or whole string.
6687549	A servlet error was thrown if the Request New Resource option under My Resources was selected.
6921455	Multibyte character labels were not supported as variables in an e-mail definition.
6959908	The Home page of the Administrative and User Console took a long time to load if the query that is run when you log in returned a large number of rows.
6880900	If a UDF was added to the USR table, then new users could not be created and details of existing users could not be displayed.

Bug Number	Description
6442163	The Create Provisioning Request operation failed if more than 39 users were selected.
6704779	The Task Assignment adapter did not send e-mail notification.
6433962	Importing a new version of an existing form caused the new form to revert to the initial version. The data type and length of existing column attributes could be changed but these changes were not reflected in the database after the import.
6435837	The Manager Approval self-service page did not show sufficient details about the user.
6622909	The SQL query generated during a provisioning operation involving multiple users sometimes used nearly 100 percent of CPU resources.
6443102	If a resource object that was dependent on some other resource object had an object form, then the object form was not displayed during request creation.
6793476	The Pre-Delete entity adapter attached to the User Groups data object was never triggered.
6611629	When viewed through the attestation feature, fields using a lookup column showed the Code Key instead of the Decode value in child forms.
6616181	Some menu items were not correctly sorted during assignment of menu items to user groups.
6856818	The limit set on the value of the Characters Allowed field was not adequate.
6760242	Assignment rules were not automatically applied when a resource was provisioned through APIs.
6775054	If a process task that had an adapter variable mapped to the old value of a field was rejected, then the old value was not retrieved when the process task was retried.
6812101	Import of XML files failed when there was no last update time for data objects.
6975816	Provisioning of objects with the Autosave option failed if a password policy was configured in the object and a password was present in the process form.
6980594	A proxy user who was not a member of the User group could not view pending approval requests assigned to the User group.
7027609	The Resource Objects Not Approved status was not available in the list of statuses that could be used as search criteria.
6504482	A lookup field defined in the FormMetaData.xml file would not work.
7012094	A request for n instances of the same resource resulted in the submission of n-1 or fewer instances.
6903952	The filter on open tasks was lost when you clicked the Back to Open Tasks link after viewing the details of a task.
6487222	Modification of object form fields resulted in the word "Unknown" getting displayed as the field name in the Rule Element fields of the associated rules.
5607653	An approval process for a request for revoking a dependent resource stayed in the Initialized state if the Allow Multiple option was not selected for the parent resource.
5746394	User-specified columns could not be added to user search results on the Administrative and User Console.
5928325	Reconciliation events were created even for records for which the reconciliation rule evaluated to the No Match Found condition. This affected reconciliation performance.

Bug Number	Description
6010176	Some reconciliation events stayed in the Event Received state.
6039459	Search and filter features were not supported for group lists.
6621750	Entitlements could not be assigned to a resource through an access policy.
7156772	A complex password policy evaluated to `true` even if only two (instead of three or more) conditions were met.
7172026	The NULL POINTER exception was encountered when you tried to add a user responsibility in the access policy for the Oracle e-Business User Management connector.
6807841	Mapping icons were not displayed while configuring data flow.
6685642	The Remote Manager status was not displayed as Running in the Design Console.
7110664	Login failed when concurrent attempts were made to access Oracle Identity Manager through API sessions.

4 Known Issues and Workarounds

The following sections describe known issues related to Oracle Identity Manager release 9.1.0.1:

- Section 4.1, "Installation Known Issues"

- Section 4.2, "General Known Issues"

- Section 4.3, "Design Console Known Issues"

- Section 4.4, "Reports Known Issues"

- Section 4.5, "Globalization Known Issues"

4.1 Installation Known Issues

This section describes known issues related to the installation of Oracle Identity Manager release 9.1.0 components. This section contains the following topics:

- Section 4.1.1, "Encrypting Oracle Identity Manager Database Password in the xell-ds.xml File for JBoss Application Server (Bug 6472946)"

- Section 4.1.2, "Installer Program Does Not Verify WebLogic Server Name (Bug 5389372)"

- Section 4.1.3, "Inaccurate Error Message Displayed When Canceling the Oracle Identity Manager Server Installation (Bug 5401425)"

- Section 4.1.4, "Installation Fails When the Database User Name Includes Special Characters (Bug 5563636)"

- Section 4.1.5, "Installer Window May Not Get Focus On Startup (Bug 6373008)"

- Section 4.1.6, ""Null input buffer" Exception Thrown During Installation Can Be Ignored"

- Section 4.1.7, "Warning Message Recorded When Server Stopped in a JBoss Application Server Cluster (Bug 7524680)"

- Section 4.1.8, "Oracle Identity Manager Installation in a Directory Path Containing Spaces Is Not Supported (Bug 7552766)"

4.1.1 Encrypting Oracle Identity Manager Database Password in the xell-ds.xml File for JBoss Application Server (Bug 6472946)

By default, JBoss Application Server does not encrypt data source passwords, as described in the JBoss document at

http://wiki.jboss.org/wiki/Wiki.jsp?page=EncryptingDataSourcePasswords

This section describes how to encrypt the Oracle Identity Manager database password in JBoss Application Server deployments. Specifically, you must perform the following steps to manually encrypt a password, and then modify the xell-ds.xml and login-config.xml files so that they can access the encrypted form of the password instead of the clear text version:

1. Open a console window and navigate to the *JBOSS_HOME* directory.

2. Run one of the following commands to encrypt the Oracle Identity Manager database password. In this command, replace *password* with the actual password that you want to encrypt.

   UNIX/Linux

   ```
   java -cp "JBOSS_HOME/lib/jboss-jmx.jar:lib/jboss-common.jar:server/
   default/lib/jboss-jca.jar:server/default/lib/jbosssx.jar"
   org.jboss.resource.security.SecureIdentityLoginModule password
   ```

   Microsoft Windows

   ```
   java -cp "JBOSS_HOME/lib/jboss-jmx.jar;lib/jboss-common.jar;server/
   default/lib/jboss-jca.jar;server/default/lib/jbosssx.jar"
   org.jboss.resource.security.SecureIdentityLoginModule password
   ```

3. The command you run in the previous step returns an encoded form of the password you specify. For example, the password Welcome1 is encoded as 3146f9cc50afd6a6df8592078de921bc. Highlight and copy the encoded password.

4. Open the *JBOSS_HOME*/server/default/deploy/xell-ds.xml file in a text editor.

5. Delete the <user-name> and <password> elements from the <local-tx-datasource> element.

6. Add the following <security-domain> element to the end of the <local-tx-datasource> element:

   ```
   <security-domain>EncryptDBPassword</security-domain>
   ```

7. Delete the <xa-datasource-property name="User"> and <xa-datasource-property name="Password"> elements from the <xa-datasource> element.

8. Add the following <security-domain> element to the end of the <xa-datasource> element:

   ```
   <security-domain>EncryptXADBPassword</security-domain>
   ```

9. Save and close the *JBOSS_HOME*/server/default/deploy/xell-ds.xml file.

10. Open the *JBOSS_HOME*/server/default/conf/login-config.xml file in a text editor.

11. Add the following elements to the `<application-policy>` element:

> **Note:** Replace *datasource_username* with the datasource user name and *encoded_password* with the encoded password you copy in Step 3.

```
<application-policy name = "EncryptDBPassword">
 <authentication>
  <login-module code = "org.jboss.resource.security.SecureIdentityLoginModule"
flag = "required">
    <module-option name = "username">datasource_username</module-option>
    <module-option name = "password">encoded_password</module-option>
    <module-option name =
"managedConnectionFactoryName">jboss.jca:service=LocalTxCM,name=jdbc/xlDS</modu
le-option>
  </login-module>
 </authentication>
</application-policy>

<application-policy name = "EncryptXADBPassword">
 <authentication>
  <login-module code = "org.jboss.resource.security.SecureIdentityLoginModule"
flag = "required">
    <module-option name = "username">datasource_username</module-option>
    <module-option name = "password">encoded_password</module-option>
    <module-option name =
"managedConnectionFactoryName">jboss.jca:service=XATxCM,name=jdbc/xlXADS</modul
e-option>
  </login-module>
 </authentication>
</application-policy>
```

12. Save and close the *JBOSS_HOME*/server/default/deploy/login-config.xml file.

4.1.2 Installer Program Does Not Verify WebLogic Server Name (Bug 5389372)

During installation on Oracle WebLogic, the Oracle Identity Manager Installer does not verify the application server name. If you enter the wrong Oracle WebLogic server name, then the installation process fails at the end.

For example, suppose you want to install Oracle Identity Manager on a Oracle WebLogic installation named myWebLogic. On the Weblogic Application Server Information page of the Installer, you enter the IP address for myWeblogic, but incorrectly enter yourWebLogic as the name of the application server. The Installer begins the installation process although the application server name is incorrect, and the installation process fails at the end.

To avoid this issue, when installing Oracle Identity Manager, double-check the name of the Oracle WebLogic Server installation that you enter.

4.1.3 Inaccurate Error Message Displayed When Canceling the Oracle Identity Manager Server Installation (Bug 5401425)

Clicking the **Cancel** button while Oracle Identity Manager is being installed results in the display of the following error message:

```
The current operation cannot be cancelled.
```

You can ignore this error message. Clicking the **Cancel** button does stop the Oracle Identity Manager server installation process.

4.1.4 Installation Fails When the Database User Name Includes Special Characters (Bug 5563636)

The Oracle Identity Manager Installer fails when you specify a string that includes any of the following special characters for the database user name:

- Asterisks (*)

- Commas (,)

- Hyphens (-)

- Apostrophes or single quotation marks (')

- Double quotation marks (")

To avoid this issue, you must specify a database user name that meets the following criteria:

- All characters are alphanumeric.

- The first character is a letter.

- Special characters are not included.

4.1.5 Installer Window May Not Get Focus On Startup (Bug 6373008)

When the language selection window opens on starting the Oracle Identity Manager Installer, the window may not get the focus while there are other open windows on the same computer. You must click the Installer window in the taskbar and then continue with the installation process by selecting a language.

4.1.6 "Null input buffer" Exception Thrown During Installation Can Be Ignored

During installation, the `Null input buffer` exception thrown while attempting to encrypt empty or NULL fields can be safely ignored.

4.1.7 Warning Message Recorded When Server Stopped in a JBoss Application Server Cluster (Bug 7524680)

When you stop one server in a JBoss Application Server cluster, the JMSContainerInvoker warning message might be recorded in the log files of the other servers in the cluster. This warning can be ignored.

4.1.8 Oracle Identity Manager Installation in a Directory Path Containing Spaces Is Not Supported (Bug 7552766)

Installation of Oracle Identity Manager in a directory path containing spaces is not supported.

4.2 General Known Issues

This section describes known issues related to the general run-time operation of Oracle Identity Manager release 9.1.0, including known issues for Oracle Identity Manager server and known issues for the Administrative and User Console not related to reporting.

This section contains the following topics:

4.2.1 Exception May Be Thrown While Using SSO to Log In to Administrative and User Console When Oracle Identity Manager Is Installed in a UNIX/Linux Environment (Bug 5969651)

An exception similar to the following one may be thrown the first time you log in to the Administrative and User Console using SSO in a UNIX/Linux environment:

```
[XELLERATE.WEBAPP],Class/Method: tcWebAdminHomeAction/setChallengeQuestions
encounter some problems: USER_QUES_NOT_DEFINED
Thor.API.Exceptions.tcAPIException: USER_QUES_NOT_DEFINED
```

To resolve this issue, you must use the Design Console to assign a value of `FALSE` to the `Force to set questions at startup` system property.

4.2.2 Stack Overflow Exception Thrown When Importing an XML File (Bug 5350771)

When you import an XML file, a stack overflow exception may be thrown if the import operation changes the organizational hierarchy. You can safely ignore this exception.

4.2.3 Pending Approvals Cannot Be Filtered by Requester Name (Bug 5365516)

If you attempt to use the Requester filter to refine the results in the Pending Approvals page, a message indicating that the search did not return any results is displayed. You can use the Requester filter only to refine results by requester ID and not by requester first name or last name.

4.2.4 All Records Returned When Filtering Records by the Date Type User Defined Field (Bug 5376321) and Searching Using Character Strings (Bug 5354752)

In the Administrative and User Console, searching based on the Date Type User Defined Field may return all records instead of just the records matching the specified dates. Using character string input as search criteria may also return all records. To avoid these issues, use the following date format:

YYYY-MM-DD

4.2.5 Date Value Entered in Incorrect Format in the Administrative and User Console Date Fields Causes an Error Message to Be Displayed (Bug 5533945)

All dates in the Administrative and User Console must be edited using the calendar icon associated with the **Date** field. Do not edit dates directly by entering text in a **Date** field. Instead, use that field's calendar icon to edit the date value.

4.2.6 Errors When Modifying Settings and Assignments for Internal System-Seeded Users (Bug 5357781)

Do not modify any settings or assignments for internal system-seeded users. If you attempt to modify any settings or assignments for internal system-seeded users, then you may encounter errors.

4.2.7 Error Message Displayed After Single Sign-On Timeout Interval in Deployment Manager or WorkFlow Visualizer Windows (Bug 5553411)

After a Single Sign-On session times out, clicking **Restart** in the Deployment Manager or WorkFlow Visualizer window of the Administrative and User Console may cause a "Client-Side error occurred" error message to be displayed. If this message is displayed, close the browser and then access the Administrative and User Console by using a new browser window.

4.2.8 Null Pointer Exception Thrown When Running the purgecache.bat Utility (Bug 5388849)

When you run the `purgecache.bat` utility, the following exception is thrown:

```
java.lang.NullPointerException
    at
com.opensymphony.oscache.base.AbstractCacheAdministrator
    .finalizeListeners(Abs
tractCacheAdministrator.java:323)
    at
com.opensymphony.oscache.general.GeneralCacheAdministrator
    .destroy(GeneralCacheAdministrator.java:168)
    at net.sf.hibernate.cache.OSCache.destroy(OSCache.java:59)
    at
net.sf.hibernate.cache.ReadWriteCache.destroy(ReadWriteCache.java:215)
    at
net.sf.hibernate.impl.SessionFactoryImpl.close(SessionFactoryImpl.java:542)
```

This exception can be safely ignored.

4.2.9 Challenge Questions Page Displayed in Error in Single Sign-On Mode When "Force to set questions at startup" System Property Set to TRUE (Bug 5565798)

In the Single Sign-On mode, when the `Force to set questions at startup` system property is set to `TRUE`, the Challenge Questions page is displayed instead of the Welcome page of the Administrative and User Console. In the Single Sign-On mode, the `Force to set questions at startup` system property must be set to `FALSE`.

4.2.10 System Error May Occur When Accessing Administrative and User Console After Database Is Restarted (Bug 5563616)

Each application server exhibits different behavior when a database connection is lost during execution. While JBoss Application Server can automatically reestablish a database connection, Oracle WebLogic Server and IBM WebSphere Application Server cannot. For Oracle WebLogic, you can define settings for testing reserved connections, in which case the connections are established automatically. For IBM WebSphere, you must configure your database for high-availability.

4.2.11 Warning Page May Be Displayed in the Administrative and User Console After Receiving "Illegal Script Tag or Characters" Message and Clicking the Back Button (Bug 5676771)

In Microsoft Windows Server 2003 Service Pack 1 (SP1) environments, the "Warning: Page has Expired" page may be displayed if you click the Back button after the "Illegal Script tag or Characters" error message is displayed. You can go back to the first page for creation by clicking the Refresh button on the browser toolbar.

4.2.12 Benign Warning Messages May Appear in Oracle Application Server Log File After Installing Release 9.1.0.1 and Starting Oracle Application Server (Bug 5840687)

After installing Oracle Identity Manager release 9.1.0 on Oracle Application Server and then starting Oracle Application Server, warning messages regarding files with the same name but that are not identical may appear in the Oracle Application Server log file. These warning messages are benign and can be safely ignored.

4.2.13 Deployment Manager Requires JRE 1.6.0_07 (Bug 5565793)

An export operation using the Deployment Manager may encounter problems when Microsoft Internet Explorer is configured to use Microsoft Virtual Machine. To reset the default Virtual Machine:

1. Download and install the `Sun JRE 1.6.0_07` from the following Web site:

   http://java.sun.com/

2. Select **Tools** from the Internet Explorer menu.

3. Select **Internet Options**.

4. Select the **Advanced** tab.

5. Scroll down to **Java (Sun)**.

6. Check **Use Java 2v1.6.0_xx for <applet>**.

7. Scroll down to **Microsoft VM**.

8. Deselect **Java console enabled** and **Java logging enabled**.

9. Restart the computer.

> **Note:** `JRE 1.6.0_07` is not required to run the Oracle Identity Manager Administrative and User Console—it is only required to run the Deployment Manager.

4.2.14 Exception May Be Encountered for JBoss Deployments on Linux if the Linux Kernel Includes IPv6 Support (Bug 5637999)

If you are running JBoss Application Server on Linux and the Linux kernel supports IPv6, you may encounter the following exception:

```
IP_MULTICAST_IF:

java.net.SocketException: bad argument for IP_MULTICAST_IF: address not bound
to any interface at java.net.PlainDatagramSocketImpl.socketSetOption(Native
Method) at
java.net.PlainDatagramSocketImpl.setOption(PlainDatagramSocketImpl.java:295)
```

This exception is caused by versions of Sun Microsystems JDK, up to and including JDK 5. If you do not need IPv6 support, you can avoid this exception by disabling IPv6 support in the JVM by adding `-Djava.net.preferIPv4Stack=true` to the `OIM_HOME`/bin/xlStartServer.sh Java command used to start JBoss Application Server.

4.2.15 Multiple Entries for the Same Request ID Are Displayed on the Pending Approvals Page in Administrative and User Console (Bug 5910393)

When more than one approval task is assigned to a user, multiple entries for the same request ID are displayed on the Pending Approvals page in the Administrative and User Console. You can select any of the displayed entries to perform the approval process.

4.2.16 Boolean Type Check Box of the User Defined Field Is Not Displayed on Request Submitted Form (Bug 5374307)

The Request Submitted form of the Design Console does not display the Boolean Type User Defined Field check box. If the User Defined Field is set to the Boolean type, then the Request Submitted form displays the number 1 instead of the check box. If the Boolean type is not enabled, then the Request Submitted form displays a blank space.

4.2.17 "Illegal Script Tag or Characters" Message Is Displayed in Lookup Forms

In the Administrative and User Console, the "Illegal Script Tag or Characters" message is displayed if you enter the less than symbol (<), greater than symbol (>), or any combination of these symbols (such as << or >>) in a text field on any page that also has a lookup form, and then click the magnifying glass icon.

If this happens, close the lookup form, remove the illegal characters from the text field, and then click the magnifying glass icon to continue with the procedure.

> **See Also:** The "Special Character Restrictions" section in *Oracle Identity Manager Globalization Guide*

4.2.18 Error Message Logged When a Scheduled Task Is Viewed or Modified (Bug 6379143)

When you view or modify a scheduled task on the Administrative and User Console, the following message may be recorded in the application server log file:

```
MessageDateFieldBean, localName='messageDateField': Illegal
character (space) in "name" attribute
```

You can ignore this message.

4.2.19 User Profile Information Specified in E-mail Definition Is Not Valid for Approval Tasks (Bug 5671866)

The user profile information, which is specified in e-mail definitions of type `General`, is not valid for approval tasks.

4.2.20 Exception Thrown on Logging in to WebSphere 6.1.0.9 (Bug 6355328)

After installing IBM WebSphere Application Server 6.1.0.9, when you restart the server and log in to the Administrative Console as `xelsysadm`, an exception is thrown. However, this does not affect functionality and you can safely ignore the exception.

4.2.21 WSLoginFailedException May Be Thrown in IBM WebSphere Log (Bug 6442226)

The `com.ibm.websphere.security.auth.WSLoginFailedException` exception may be thrown for IBM WebSphere 6.1.0.9 configurations. You can ignore this exception.

This exception has been acknowledged by IBM, and you can refer to the following IBM Web page for more information:

http://www-1.ibm.com/support/docview.wss?rs=180&uid=swg1PK47479

4.2.22 IllegalArgumentException and CacheException May Be Thrown After Application Server Is Started (Bug 6415213)

> **Note:** This applies only to IBM WebSphere and Oracle Application Server.

The `java.lang.IllegalArgumentException` and `oracle.cabo.image.cache.CacheException` exceptions may be thrown after the application server is started. You can ignore these exceptions.

4.2.23 User Password Reset Is Not Supported by SPML Web Service When Password Policies Are Enabled (Bug 6430243)

If password policies are enabled in Oracle Identity Manager, then the SPML Web Service does not support password reset operations.

4.2.24 Search Button Must Be Clicked Twice to Search for a Scheduled Task After Changing the State (Bug 6493690)

On the Administrative and User Console, you can enable or disable a scheduled task displayed in the search results table for scheduled tasks. However, if you search for a scheduled task after you change its state, you must click the **Search** button once and then again for the task with the modified state to be displayed.

4.2.25 NullPointerException Written to Log File When Oracle Application Server Is Shut Down (Bug 6471061)

When you shut down Oracle Application Server, the `java.lang.NullPointerException` from the com.thortech.xl.cache.CacheUtil component is written to the application server log file. You can safely ignore this exception.

4.2.26 Some Postinstallation Tests Offered by the Diagnostic Dashboard Are Displayed in the List of Preinstallation Tests (Bug 6512066)

When you use the Diagnostic Dashboard, although the Test Basic Connectivity, Test Provisioning, and Test Reconciliation tests are available even before you install Oracle Identity Manager, you can use these tests only after you install Oracle Identity Manager.

4.2.27 Special Characters Are Not Allowed in Attestation Process Definition (Bug 6514208)

Special characters are not supported in the attestation process definition. Only alphanumeric characters and the underscore (_) character can be included.

4.2.28 Columns Names Are Displayed Instead of Labels If an Attestation Scope Is Defined Using User-Defined Fields (Bug 6517060)

While defining an attestation process using the Administrative and User Console, if an attestation scope is defined using user-defined fields (UDFs) on the User Scope or Resource Scope page, then columns names are displayed instead of labels in the list of selected attributes.

4.2.29 Reconciliation Event Does Not Exist/Reconciliation Message Failed Log Messages

During reconciliation, an error message similar to the following may be written to the logs:

```
[XELLERATE.JMS],The Reconciliation Event with key 512312 does not exist
[XELLERATE.JMS],Processing Reconciliation Message with ID 512312 failed.
```

Depending on the application server retry settings, these messages are retried for the specified number of times. If JMS is not able to process these messages after the specified number of retries, then these messages are moved to the dead letter queue.

4.2.30 Multiple Trusted Source Flag and Reconciliation Sequence Flag Not Displayed in the Administrative and User Console (Bugs 6626902 and 6625149)

On the Resource Detail page of the Administrative and User Console, the newly introduced Multiple Trusted Source flag and Reconciliation Sequence flag are not displayed. These flags can be viewed in the Design Console.

4.2.31 Resource Name Field of the Create Attestation Process Is Case-Sensitive

In the Create Attestation process, the Resource Name field is case-sensitive. To correctly configure the attestation process, you must use the exact spelling and case (uppercase and lowercase) of the resource name.

4.2.32 Retry Interval and Retry Attempt Limit Values Not Displayed on Task Details Page (Bug 6633903)

The Retry Interval and Retry Attempt Limit values are not displayed on the Task Details page of the Workflow Visualizer.

4.2.33 Changes to JDBC Connection Pool Attributes May Result in Database User Account Getting Locked (Bug 6621085)

If JDBC connection pool attributes are changed on Oracle Application Server, then the "ORA-28000: the account is locked" error message may be written to the application server log. When this error occurs, the database user account is locked. This is a known issue with Oracle Application Server when using an indirect password in the connection pool. Oracle Identity Manager connection pools use an indirect password.

If you want to change a connection pool attribute by using the Oracle Application Server Administrative Console, then you can work around this problem as follows:

1. Log in to the Oracle Application Server Administrative Console, and stop the application named `Xellerate`.

2. Change the connection pool attributes.

3. Restart Oracle Application Server.

4. Log in to the Oracle Application Server Administrative Console, and start the `Xellerate` application.

4.2.34 Previously Viewed Workflow Displayed on Creating a New Workflow Event (Bug 6645226)

In the Graphical Workflow Designer, when you click Save after adding a new Workflow Event, the previously viewed workflow is displayed instead of the newly created workflow event.

4.2.35 User ID Containing Special Characters Is Not Displayed in User ID Lookup Fields

During user creation in the Administrative and User Console, if special characters are included in the User ID value, then look-up fields for user IDs will not be able to display that specific user ID. For information about special character restrictions, refer to Oracle Identity Manager Globalization Guide.

4.2.36 Database Error May Be Thrown When Disabling an Organization (Bug 6608036)

When disabling an organization that has child organizations, a database error message may be displayed in addition to the Oracle Identity Manager error message. To avoid this problem, remove parent-child associations before disabling an organization.

4.2.37 Session Timeout System Error Thrown During Workflow Creation Can Be Ignored (Bug 6645683)

A session timeout error may be thrown during creation of a workflow. You can safely ignore this error.

4.2.38 Known Issues Related to Generic Technology Connectors

Refer to the "Known Issues of Generic Technology Connectors" chapter of *Oracle Identity Manager Administrative and User Console*.

4.2.39 Exception May Be Thrown When a Scheduled Task Runs for Many Hours

For Oracle Identity Manager on Oracle Application Server, the following exception may be thrown when a scheduled task runs for many hours:

```
Primary Server went down going to get a fresh object elsewhere in the cluster.
com.evermind.server.rmi.RMIConnectionException: LRU connection
```

This exception has no impact on the functioning of Oracle Identity Manager and can be ignored.

4.2.40 Filter by Permission Name Field Might Not Accept Non-ASCII Characters (Bug 7510739)

The Filter by Permission Name field on the (Group Details) Permissions page of the Administrative and User Console might not accept non-ASCII characters.

4.2.41 JspException Might Be Encountered (Bug 7583783)

You might encounter exceptions similar to the following:

```
javax.servlet.jsp.JspException: Define tag cannot set a null value
```

You can ignore these exceptions because they do not affect the working of Oracle Identity Manager.

4.2.42 Java.Lang.Securityexception Exception Might Be Encountered (Bug 7550811)

The Java.Lang.Securityexception: Insufficient Method Permission exception might be encountered when Oracle Identity Manager is running on JBoss Application Server. To work around this issue:

1. From the jira.jboss.org Web site, download the patch for issue JBAS-6236.

2. Create the xlSecurityManager.jar file out of the code in the patch.

   Note: Steps to create the JAR file are documented in the patch itself.

---

3. Copy the JAR file to the following location:

   - For a nonclustered installation:

     JBOSS_HOME/server/default/lib

   - For a clustered installation, copy the JAR file into the following directory on all the nodes:

     JBOSS_HOME/server/all/lib

4. Open the following file in a text editor:

   - For a nonclustered installation:

     JBOSS_HOME/server/default/conf/jboss-service.xml

   - For a clustered installation:

     JBOSS_HOME/server/default/conf/jboss-service.xml

5. In the XML file, search for the following lines:

```
<!-- JAAS security manager and realm mapping -->
    <mbean code="org.jboss.security.plugins.JaasSecurityManagerService"
```

   Replace those lines with the following lines:

```
<!-- JAAS security manager and realm mapping -->
    <mbean code="mysec.security.jboss.jaas.OpenJaasSecurityManagerService"
```

6. Restart the server.

4.2.43 HeadlessGraphicsEnvironment Exception Might Be Encountered on JBoss Application Server (Bug 7594350)

The following error might be encountered if Oracle Identity Manager is running on JBoss Application Server:

```
java.lang.ClassCastException: sun.java2d.HeadlessGraphicsEnvironment cannot be
cast to sun.awt.Win32GraphicsEnvironment
```

This is a known issue of JDK. For more information, look up Bug 6358034 on the following Web site:

http://bugs.sun.com

4.2.44 Java.Lang.IllegalArgumentException Might Be Encountered (Bug 7597447)

You might encounter exceptions similar to the following:

```
java.lang.IllegalArgumentException for creating image cache directory occured
```

You can ignore these exceptions because they do not affect the working of Oracle Identity Manager.

4.2.45 Login Attempt on an Idle Login Window May Display the Logout Page (Bug 7249936)

Login attempt on an idle login window may display the logout page. Subsequent login attempts are successful. This does not have any functional impact on Oracle Identity Manager.

4.2.46 Connection with Oracle Database 11g Might Fail During Certain Oracle Identity Manager Operations (Bugs 7575738 and 7599139)

During certain Oracle Identity Manager operations, the connection with Oracle Database 11*g* might fail and the following error gets recorded in the log file:

```
java.sql.SQLException: Listener refused the connection with the following error:
ORA-12518, TNS:listener could not hand off client connection
```

When this happens, depending on the application server on which Oracle Identity Manager is running, you might have to restart Oracle Identity Manager.

4.2.47 tcDefaultSignatureImpl Exception Might Be Encountered When a Scheduled Task Is Run (Bugs 7594587 and 7601851)

The following exception might be recorded in the log file when a scheduled task is run:

```
ERROR [ACCOUNTMANAGEMENT] Class/Method: tcDefaultSignatureImpl/verifySignature
encounter some problems
```

However, the task is processed correctly on the next run.

4.3 Design Console Known Issues

This section describes known issues related to tasks performed using the release 9.1.0 Design Console—it does not contain known issues related to the installation of the Design Console or its translated text. This section contains the following topics:

- Section 4.3.1, "Invoking FVC Utility on IBM WebSphere May Display "Realm/Cell is Null" Error (Bug 5563654)"

- Section 4.3.2, "Form Designer Feature Does Not Support Special Characters for Column Name (Bug 5373011)"

- Section 4.3.3, "Default Tasks Not Added to Resource Object After Changing Its Process Definition Type (Bug 5637994)"

- Section 4.3.4, "Cannot Delete User Defined Fields When the Required and Visible Properties are Set to True (Bug 5486223)"

- Section 4.3.5, "Cannot Save Multiple Rules Simultaneously (Bug 5457386)"

- Section 4.3.6, "Toolbars in Creating New Task Window May Be Disabled When Multiple Creating New Task Windows Are Open (Bug 5514864)"

- Section 4.3.7, "Error Thrown When the Caret (^) Character Is Encountered in a Challenge Question"

4.3.1 Invoking FVC Utility on IBM WebSphere May Display "Realm/Cell is Null" Error (Bug 5563654)

When attempting to use the FVC utility in IBM WebSphere deployments, a dialog box with the error message `Realm/cell is Null` may be displayed. You can close the dialog box and ignore this error message to continue.

To avoid this issue entirely, change the properties in the *WEBSPHERE_HOME*\AppClient\properties\sas.client.props file to the following:

> **Note:** *WEBSPHERE_HOME* represents the location where IBM WebSphere is installed.

Change the existing values to the following:

- `Com.ibm.CORBA.loginSource = properties`

- `Com.ibm.CORBA.loginTimeout = 300`

- `Com.ibm.CORBA.securityEnabled = true`

- `Com.ibm.CORBA.loginUserid = xelsysadm`

- `Com.ibm.CORBA.loginPassword = xelsysadm`

4.3.2 Form Designer Feature Does Not Support Special Characters for Column Name (Bug 5373011)

The Form Designer form in the Design Console will not save entries that contain any of the following special characters in the Column Name field:

; / % = | + , \ ' " < >

4.3.3 Default Tasks Not Added to Resource Object After Changing Its Process Definition Type (Bug 5637994)

In the Design Console, after changing the Process Definition type for a Resource Object from Approval to Provisioning, or from Provisioning to Approval, the Resource Object is not updated with the default tasks associated with each type of Process Definition. To avoid this issue, do not change the Process Definition type after setting it initially.

4.3.4 Cannot Delete User Defined Fields When the Required and Visible Properties are Set to True (Bug 5486223)

Attempting to delete User Defined Fields in the Design Console when the **Required** and **Visible** properties are set to **true** causes an error message to be displayed. To avoid this issue, first delete the properties and then delete the User Defined Column.

4.3.5 Cannot Save Multiple Rules Simultaneously (Bug 5457386)

The Rule Designer feature in the Design Console cannot save multiple rules simultaneously. To avoid this issue, save each rule before creating additional rules.

4.3.6 Toolbars in Creating New Task Window May Be Disabled When Multiple Creating New Task Windows Are Open (Bug 5514864)

Toolbars in the **Creating New Task** window may be disabled after adding event handlers or adapters from the **Integration** tab when using the same **Create New Task** window for a second time to add a task (by clicking the **New Form** icon). To avoid this issue, close the **Creating New Task** window before creating another task.

4.3.7 Error Thrown When the Caret (^) Character Is Encountered in a Challenge Question

While setting challenge questions in the `Lookup.WebClient.Questions` lookup definition, you must not include the caret (^) character in the text of the questions. The Design Console does not stop you from entering this character, but the Administrative and User Console will throw an error when this character is encountered.

4.3.8 Error Messages Displayed on the Password Policies Form Are Concatenated (Bug 6444500)

An error message is displayed if there is conflicting input on the Password Policies form. For example, an error message is displayed if the minimum password length specified is greater than the maximum length. If there is more than one set of conflicting input, then the errors messages that are displayed are concatenated.

4.3.9 User Group Name Attribute for Reconciliation Mapping (Bug 6608943)

While defining reconciliation field mappings for trusted sources, you must not use the User Group Name user attribute.

4.3.10 Single Quotation Mark Cannot Be Included in IT Resource Instance Name (Bug 6643202)

Single quotation marks are not supported in the name of an IT resource. If a single quotation mark is included in the Name field on the IT Resources form, then a system error message is displayed.

4.3.11 Passwords As Child Table Fields Are Not Supported (Bug 6703251)

Although you can use the Design Console to mark child table fields as password fields, Oracle Identity Manager does not support passwords as child table fields.

4.4 Reports Known Issues

This section describes known issues related to reporting functionality in release 9.1.0. This section contains the following topics:

- Section 4.4.1, "Group Membership History Report Does Not Differentiate Between Active and Deleted Groups (Bug 5249535)"

- Section 4.4.2, "User Disabled and User Unlocked Reports Display Current Values (Bug 6371878)"

- Section 4.4.3, "Resource Name Lookup Window on the Input Parameters Page for Some Reports May Incorrectly Display Organization Resources (Bug 5493332)"

4.4.1 Group Membership History Report Does Not Differentiate Between Active and Deleted Groups (Bug 5249535)

When you run a Group Membership History report, the report results do not differentiate between active and deleted groups.

4.4.2 User Disabled and User Unlocked Reports Display Current Values (Bug 6371878)

The User Profile columns in the User Disabled and User Unlocked reports display current values instead of historical values.

4.4.3 Resource Name Lookup Window on the Input Parameters Page for Some Reports May Incorrectly Display Organization Resources (Bug 5493332)

In the Administrative and User Console, clicking the **Resource Name** lookup icon on the **Input Parameters** page for various reports will display a lookup window. This lookup window may incorrectly display Organization resources in addition to User resources for the following reports:

- Resource Access List

- Entitlement Summary

- Resource Access List History

- Resource Password Expiration

- Account Activity in Resource

- Task Assignment History

- Rogue Accounts By Resource

- Fine Grained Entitlement Exceptions By Resource

Ignore the Organization resources listed in the lookup window. Running these reports for Organization resources will return no data.

4.4.4 Reports May Not Differentiate Between Information for Deleted Users and Information for Users Created with the Same User IDs As the Deleted Users (Bug 5741951)

Reports may not differentiate between information for a deleted user and information for a user that was created with the same user ID as the deleted user, regardless of whether or not the User ID Reuse property is enabled.

4.5 Globalization Known Issues

This section describes known issues in release 9.1.0 related only to globalization or translation. This section contains the following topics:

4.5.1 Installer Programs for Non-English Languages May Contain Some English Text (Bug 5232751)

The Installer programs for non-English languages may contain some untranslated text that is displayed in English.

4.5.2 Some Administrative and User Console Windows Display Text for Default Locale Setting After Timing Out (Bug 5545626)

In the Administrative and User Console, if the Export and Import pages of the Deployment Manager or the Workflow Visualizer page are open and the session times out, then the text on these pages may be displayed in the language of the default locale of the system where Oracle Identity Manager is installed. After closing the session timeout window and clicking any of the Administrative and User Console menu options, the Oracle Identity Manager Logout page is displayed and may also be displayed in the language of the default locale of the system where Oracle Identity Manager is installed.

4.5.3 Notes Field on the Task Details Page Not Localized For Reconciliation Tasks (Bug 5512136)

In the Administrative and User Console, some text in the **Notes** field on the **Task Details** page may be displayed in English in non-English environments. Task instances that have the following names may encounter this issue:

- Reconciliation Update Received

- Reconciliation Insert Received

- Reconciliation Delete Received

4.5.4 English Characters Required for Some Attributes

Release 9.1.0.1 requires that you use only English characters for the following:

- Installation paths and directory names (Bug 5397854)

- Host names (Bug 5360993)

- E-mail addresses (Bug 5397105)

- If used, external certificate names and certificate content (Bug 5387397)

- The Administrative and User Console requires that you use only English characters for the E-mail Address fields on the **Create/Edit User**, **Account Profile**, and **Self-Registration** pages. In addition, when installing the Remote Manager, you must use only English characters for the Service Name on the **Configuration** page (Bug 5460100).

Refer to *Oracle Identity Manager Globalization Guide* for detailed information about the character restrictions for various components and attributes.

4.5.5 Some Information in Workflow Visualizer May Be Displayed as Box Characters (Bug 5704436)

Some information may be displayed as box characters in the Workflow Visualizer of the Administrative and User Console due to a known limitation with Java Applets and globalized characters. The browser JVM displays only those characters that are in the current locale of the system where Oracle Identity Manager is installed. Globalized characters are displayed correctly in applets only if you set the browser to the same locale as the system where Oracle Identity Manager is installed.

4.5.6 Report in Non-English Environments Requires English Values for Filter Parameters (Bug 5511190)

In non-English environments, the following report requires that the given filter parameter use only English values:

Report: Entitlement Summary

Filter parameter: Account Status

For example, filtering on Account Status in the Entitlement Summary report in non-English environments and using a translated version of the status *Active* will return nothing. You must use the English value *Active*.

4.5.7 Deployment Manager Import and Export Features Include an Untranslatable String (Bug 5501127)

The Administrative and User Console's Deployment Manager import and export features use the Java AWT file dialog box that shows the `All Files (*.*)` string in the dialog box filter. The `All Files (*.*)` string is not translated for any locale and is displayed in English. This limitation is caused by the Java implementation, and the string cannot be translated. For more information, refer to the Sun Microsystems report for Bug ID 4152317 at

http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=4152317

4.5.8 Names of Log Files for Oracle Identity Manager Utilities Do Not Include Time Stamp for Some Non-English Locales (Bug 5850607)

When you use the Reconciliation Archival utility or Task Archival utility, or Oracle Identity Manager Database Validator, the name of the log files for some non-English environments may not include the time stamp. For example, for the Reconciliation Archival utility, you may see a log file that looks something like `Arch_Recon____15_56.log` instead of `Arch_Recon_Wed_31_2007_03_31.log`.

4.5.9 Pre-Populate Adapter Error Messages Do Not Support Localized Display of Date and Time

The server-side date and time displayed in the error message on the Administrative and User Console when a pre-populate adapter error is encountered are not localized.

4.5.10 Some Asian Languages Not Displayed Correctly With Sun JDK 1.4 (Bug 6314961)

Some Asian languages may not be displayed correctly with Sun JDK 1.4 on the Deployment Manager if you launch it on a non-Asian Windows computer in spite of installing a language package on the client host. If you encounter this issue, install SUN Java Plug-in 1.5.

4.5.11 Names of IT Resource Parameters Displayed in the Administrative and User Console Are Not Localized (Bug 6455617)

The names of IT resource parameters displayed on the "Manage IT Resources" pages of the Administrative and User Console are not localized.

4.5.12 Inconsistent Ordering of Names in Columns of Some Reports in Non-English Environments (Bugs 5557974 and 6457618)

In non-English environments, the ordering of first and last names in some reports does not correspond to the browser locale of the logged in user. Table 3 lists the reports and their columns in which first and last names may be displayed in inconsistent order. You can modify the display of first and last names by modifying the stored procedures for these reports.

Table 3   Reports and Columns in Which First and Last Names May Be Inconsistently Ordered

Report	Sectional Header	Sectional Table	Display Format
Attestation Requests by Process	Reviewer	NA	FirstName LastName
Attestation Process List	NA	Reviewer	FirstName LastName
Policy List	NA	Created By	FirstName MiddleName LastName
Policy Detail	Created By	NA	FirstName LastName
Organization Structure	NA	Manager Name	FirstName MiddleName LastName
Requests Initiated	NA	Requester	FirstName MiddleName LastName
Requests Details by Status	Requester	NA	FirstName MiddleName LastName

Table 3 (Cont.) Reports and Columns in Which First and Last Names May Be Inconsistently Ordered

Report	Sectional Header	Sectional Table	Display Format
Group Membership	Group Created By	NA	FirstName LastName
Task Assignment History	NA	Assigner User Name	FirstName LastName
Account Activity in Resource	NA	Manager Name	FirstName LastName
User Resource Access History	NA	Manager Name, Provisioned By	FirstName LastName
Group Membership History	Group Created By	NA	FirstName LastName

4.5.13 Error Message Displayed While Trying to Delete Menu Items Is Not Localized (Bug 6503868)

While trying to delete a menu item, you may encounter an error message that is not localized.

4.5.14 Localization to the Chinese (Simplified), Chinese (Traditional), and Portuguese (Brazilian) Languages Not Supported (Bug 6728226)

If Oracle Single Sign-On is used to provide authentication service to Oracle Identity Manager, then localization to the Chinese (Simplified), Chinese (Traditional), and Portuguese (Brazilian) languages is not supported. This is due to a known bug (6728226) in the Oracle Single Sign-On Plug-in deployed on Oracle HTTP Server.

4.5.15 Group Name Field Is Displayed in English (Bug 6816544)

The Group Name Field label is always displayed in English, regardless of the locale you set.

> **Note:** Changes made in the resource bundles are listed in the "Customizations" section.

5 Upgrading to Oracle Identity Manager Release 9.1.0.1

To upgrade from Oracle Identity Manager release 9.1.0 to release 9.1.0.1, perform the following procedures:

> **Note:**
> - You must have Oracle Identity Manager release 9.1.0 installed before you apply the release 9.1.0.1 patch set.
> - Before you begin the upgrade, extract the contents of the Oracle Identity Manager release 9.1.0.1 patch set to a temporary directory on the computer on which Oracle Identity Manager is installed. This temporary directory is referred to as *PATCH* in this document.

- Section 5.1, "Upgrading the Application Server"
- Section 5.2, "Upgrading the Oracle Identity Manager Database"
- Section 5.3, "Upgrading Oracle Identity Manager"
- Section 5.4, "Upgrading the Oracle Identity Manager Design Console"
- Section 5.5, "Upgrading the Oracle Identity Manager Remote Manager"
- Section 5.6, "Redeploying the Diagnostic Dashboard"

> **Note:** Before you start the upgrade, note the following:
>
> - If you are using Oracle Database, then you must first upgrade the application server that you are using. After upgrading the appropriate application server, you must perform the procedure described in "Upgrading the Oracle Identity Manager Database", and then perform the procedures described in the sections that follow.
> - You can skip any section that does not apply to your environment.

5.1 Upgrading the Application Server

Refer to one of the following sections:

- Section 5.1.1, "Upgrading Oracle WebLogic Server"
- Section 5.1.2, "Upgrading JBoss Application Server"

5.1.1 Upgrading Oracle WebLogic Server

Oracle Identity Manager release 9.1.0.1 is certified on Oracle WebLogic Server 10.3. To install Oracle WebLogic Server 10.3, refer to the documentation for that application server.

5.1.2 Upgrading JBoss Application Server

Oracle Identity Manager release 9.1.0.1 is certified on JBoss Application Server 4.2.3. To install JBoss Application Server, refer to the documentation for that application server.

5.2 Upgrading the Oracle Identity Manager Database

The procedure to Oracle Identity Manager database depends on the database product you are using. The following sections describes the procedure to upgrade Oracle Identity Manager database on Oracle Database:

- Section 5.2.1, "Upgrading Oracle Identity Manager Database on Oracle Database"
- Section 5.2.2, "Loading Metadata into the Database"
- Section 5.2.3, "Running the UPA Form Data Upgrade Utility"
- Section 5.2.4, "Using the Oracle Identity Manager Database Validator"

5.2.1 Upgrading Oracle Identity Manager Database on Oracle Database

To upgrade Oracle Identity Manager database on Oracle Database:

1. Back up the existing database.

Use the export/backup utility provided with the database to perform a complete backup of the database.

A production database backup includes, but is not limited to, complete export or backup of the Oracle Identity Manager release 9.1.0 database instance to ensure that, if required, the database can be restored to its original state.

2. Enable execute permissions on the scripts in the *PATCH* directory.

3. To upgrade the database schema from release 9.1.0 to release 9.1.0.1, run one of the following scripts:

> **Note:** Run the script on the computer on which the database is installed.

For Microsoft Windows:

PATCH/db/oracle/Scripts/oim_db_upg_910_to_9101.bat

The command-line usage for the script is as follows:

```
oim_db_upg_910_to_9101.bat ORACLE_SID ORACLE_HOME OIM_USER_NAME
OIM_USER_PASSWORD DIRECTORY_IN_WHICH_DB_UPGRADE_ZIP_FILE_IS_EXTRACTED
```

For UNIX:

PATCH/db/oracle/Scripts/oim_db_upg_910_to_9101.sh

The command-line usage for the script is as follows:

```
oim_db_upg_910_to_9101.sh ORACLE_SID ORACLE_HOME OIM_USER_NAME
OIM_USER_PASSWORD DIRECTORY_IN_WHICH_DB_UPGRADE_ZIP_FILE_IS_EXTRACTED
```

4. To compile the stored procedures, log in to SQL *Plus by using the credentials of the Oracle Identity Manager release 9.1.0 database schema owner and then run the following script:

PATCH/db/oracle/StoredProcedures/compile_all_XL_SP.sql

5. To upgrade the Oracle Identity Manager Audit and Compliance module, log in to SQL *Plus by using the credentials of the Oracle Identity Manager release 9.1.0 database schema owner and then run the following script:

PATCH/db/oracle/Scripts/Oracle_Enable_XACM.sql

6. Load metadata into the Oracle Identity Manager database. See "Loading Metadata into the Database" for more information.

7. To generate process and form data for exception-based reporting, run the UPA Form Data Upgrade Utility. See "Running the UPA Form Data Upgrade Utility" for more information.

5.2.2 Loading Metadata into the Database

To load metadata into the database, you must first make the required changes in one of the following files:

- LoadXML.bat
- LoadXML.sh

- LoadXML_XACM.bat

- LoadXML_XACM.sh

This file is located in the *OIM9101INSTALLER*/installServer/Xellerate/db/Metadata directory.

> **Note:** The LoadXML_XACM script is used if Oracle Identity Manager is installed with the Audit and Compliance module. Otherwise, the LoadXML script is used.
>
> In the following procedure, this file is referred to as LoadXML.

To load metadata into the database:

1. Open the LoadXML script in a text editor.

   Set the value of the JAVA_HOME variable.

2. Depending on the operating system on which Oracle Identity Manager is deployed:

   - **For Oracle Database on Microsoft Windows**

     a. In the LoadXML file, remove REM from the following line:

     ```
     REM SET ORACLE_DRIVER_DIR=
     ```

     b. Assign the path to the Oracle driver directory containing the Oracle JDBC drivers:

     ```
     SET ORACLE_DRIVER_DIR=PATH_TO_ORACLE_DRIVER
     ```

   - **For Oracle Database on UNIX:**

     a. In the LoadXML file, uncomment the following lines:

     ```
     #ORACLE_DRIVER_DIR=
     #export ORACLE_DRIVER_DIR
     ```

     b. Assign the path to the JDBC driver for Oracle, so that the line is similar to the following:

     ```
     ORACLE_DRIVER_DIR=PATH_TO_ORACLE_DRIVER
     export ORACLE_DRIVER_DIR
     ```

3. Open a command prompt or console and run the LoadXML script. While running the script, you must enter values for the following parameters (in the given order):

   - **For Oracle Database:**

     - JDBC URL. For example: jdbc:oracle:thin:@*DB_HOST_IP*:*PORT*:*SID* (replace *DB_HOST_IP* with the IP address of the database host, *PORT* with the port number of the database host, and *SID* with the database user ID)

     - Database user name

     - Password

5.2.3 Running the UPA Form Data Upgrade Utility

The UPA Form Data Upgrade Utility enables exception-based reporting. If the exception reports feature is currently disabled and if you plan to enable the feature,

then run this utility to populate the UPA_UD_FORMS and UPA_UD_FORMFIELDS tables. While the exception reports feature is disabled, there is no baseline process form data in these two tables.

The utility runs through the entitlements and populates the UPA_UD_FORMS and UPA_UD_FORMFIELDS tables.

If you have installed Oracle Identity Manager Audit and Compliance module, then you must generate the process or object form data only if the following conditions are all true at the same time:

> **Caution:** Use this utility only after enabling the exception reporting feature. If any error was encountered during previous runs, then the utility can be run multiple times while enabling the exception reporting feature. The utility must not be used at any other time when the environment is functional.

- You have enabled the exception reporting feature. This feature is enabled by setting the value of the XL.EnableExceptionReports property to TRUE.

- Audit level for an existing Oracle Identity Manager Audit and Compliance module environment is at the Resource Form or Process Task level.

To use the UPA Form Data Upgrade utility, perform the following steps:

- Section 5.2.3.1, "Configuring the Scripts"

- Section 5.2.3.2, "Compiling the Stored Procedure"

- Section 5.2.3.3, "Running the Utility"

5.2.3.1 Configuring the Scripts

The following scripts are available in the release 9.1.0.1 installation package.

- For Microsoft Windows, edit the following file:

  ```
  OIM9101INSTALLER\installServer\Xellerate\db\oracle\Utilities\UPAFormDataUpgrade
  Utility\UPAFormDataUpgrade.bat
  ```

- For Linux or UNIX, edit the following file:

  ```
  OIM9101INSTALLER/installServer/Xellerate
  /db/oracle/Utilities/UPAFormDataUpgradeUtility/UPAFormDataUpgrade.sh
  ```

Table 4 shows the values of the variables that must be set before you run the utility.

Table 4   Variables of the UPA Form Data Upgrade Utility

Variable	Description
ORACLE_HOME	Oracle home directory.
OIM_DB_USERNAME	User name for the Oracle Identity Manager database user.
OIM_DB_USER_PASSWORD	Password for the Oracle Identity Manager database user.
OIM_DB_REMOTE	Describes if the database is running on a remote computer.
	Set a value for this parameter if OIM_DB_REMOTE = Y or OIM_DB_REMOTE = N.

Table 4   (Cont.) Variables of the UPA Form Data Upgrade Utility

Variable	Description
OIM_DB_ORACLE_SID	SID of the database.
	Set a value for this parameter only if OIM_DB_REMOTE = N.
OIM_DB_SERVICE_NAME	TNS service name that points to the remote database.
	Set a value for this parameter only if OIM_DB_REMOTE = Y.

5.2.3.2 Compiling the Stored Procedure

For Oracle Database, perform the following steps:

1. Log in to SQL*Plus by using the credentials of the Oracle Identity Manager release database schema owner.

2. Run the following script:

   ```
   OIM9101INSTALLER/installServer/Xellerate/db/oracle/Utilities/UPAFormDataUpgrade
   Utility/compile_all_XL_SP_UPA.sql
   ```

5.2.3.3 Running the Utility

For Oracle Database on Microsoft Windows, run the UPAFormDataUpgrade.bat batch file from the following location:

```
OIM9101INSTALLER\installServer\Xellerate\db\oracle\Utilities\UPAFormDataUpgradeUti
lity
```

For Oracle Database on UNIX, run the UPAFormDataUpgrade.sh shell file from the following location:

```
OIM9101INSTALLER/installServer/Xellerate/db/oracle/Utilities/UPAFormDataUpgradeUti
lity
```

5.2.4 Using the Oracle Identity Manager Database Validator

The Oracle Identity Manager Database Validator is a command-line interface (CLI) utility that compares objects of two databases and generates a report of the missing and mismatched objects in the destination database.

You can also use this utility to verify an upgrade that you perform.

The Oracle Identity Manager Database Validator compares objects of a standard Oracle Identity Manager schema or a customized Oracle Identity Manager database (source) with a destination database that you specify.

The utility gathers source database details in a table. This information is the standard for comparison. For Oracle Database, the information is saved in a file that is created by the database export utility.

In upgrade scenarios, you can use this utility to verify an upgrade that you perform. You can compare the upgraded Oracle Identity Manager database with the provided standard dump (as source dump). This is to verify the success of Oracle Identity Manager database upgrade after the upgrade patch is applied.

Scenario: You upgrade your Oracle Identity Manager installation from release x.x.1 to release x.x.2 by using a standard upgrade package. Oracle Identity Manager Database Validator identifies the missing and mismatched objects, if any, after the upgrade has been completed.

5.2.4.1 Location and Components The Oracle Identity Manager Database Validator files are at the following location:

Oracle Database

OIM9101INSTALLER\installServer\Xellerate\db\oracle\Utilities\OIMDBValidator

All Oracle Identity Manager Database Validator files are located in the OIMDBValidator folder.

Table 5 provides details of the files that are part of the Oracle Identity Manager Database Validator.

Table 5   Files of the Oracle Identity Manager Database Validator

File	Description
oim_ddl_create_oim_src_db.sql	Creates the oim_src_db table.
oim_dml_populate_oim_src_db.sql	Populates the oim_src_db table with metadata details.
oim_dml_src_do_counts.sql	Takes the row count of Oracle Identity Manager standard tables.
	This file is optional and is based on your inputs.
If Source is a standard database, then: oim_std_src_db.dmp	If Source is a standard/vanilla database, then the standard dump files is named oim_std_src_db.dmp.
	For a successful standard vanilla installation, a standard dump accompanies the utility.
	This standard file for Oracle Database is available at the following location:
	OIM9101INSTALLER\installServer\Xellerate\db\oracle\Utilities\OIMDBValidator\SrcInfo
If Source is a customized database, then: oim_src_db.dmp	You can opt to generate the dump file on your own.
	This file is created when you want to create a dump file from a source Oracle Identity Manager database of your choice. It is named oim_src_db.dmp, and for Oracle Database, it is available at the following location:
	For Oracle: *OIM9101INSTALLER*\installServer\Xellerate\db\oracle\Utilities\OIMDBValidator\SrcInfo
oim_dml_check_oim_version.sql	Selects the version from the oim_src_db table and compares it with the version of the XSD table of the Destination Oracle Identity Manager schema.
oim_ddl_create_oim_dest_db.sql	Creates the oim_dest_db table in the destination Oracle Identity Manager database. This file is used to store the data dictionary information of Oracle Identity Manager.
oim_dml_populate_oim_dest_db.sql	Populates the oim_dest_db table with metadata details.
oim_dml_dest_do_counts.sql	Counts the number of records in the Oracle Identity Manager standard tables.
	This file is optional and is based on your input.
oim_db_compare.sql	This main comparison script creates a comparison report named COMPARISON_SUMMARY_*YYYY_MM_DD_HH_MI*.log that lists details of the missing or mismatched objects and the row count difference if any.

Table 5   (Cont.) Files of the Oracle Identity Manager Database Validator

File	Description
oim_ddl_drop_oim_src_dest_db.sql	Drops the tables that are created at the destination.
	This file is optional and is based on your input.
oim_db_validator.bat (Microsoft Windows) oim_db_validator.sh (UNIX and Linux)	Runs the utility.
oim_db_input.bat (Microsoft Windows) oim_db_input.sh (UNIX and Linux)	The oim_db_validator.bat file calls the oim_db_input.bat file to get the user input and validate the provided information.
	The oim_db_validator.sh file calls the oim_db_input.sh file to get the user input and validate the provided information.

5.2.4.2 Oracle Identity Manager Database Validator Functionality To use the Database Validator utility, run the following script:

- On Microsoft Windows: oim_db_validator.bat

- On UNIX: oim_db_validator.sh

  After you run the script, a log file is generated with the following name:

  For Microsoft Windows:

  - If the utility runs without error:
    oim_db_validator_*YYYY_MM_DD_HH_MM*.log

  - In case of error: oim_db_validator_err_*YYYY_MM_DD_HH_MM*.log

  For UNIX:

  - If the utility runs without error:
    oim_db_validator_*YYYY_MM_DD_HH_MM*.log

  - In case of error: oim_db_validator_err_*YYYY_MM_DD_HH_MM*.log

Authentication

When you run the script, you are prompted to enter the following information:

- Oracle Home name

- Database Name

- Database User name

- Database Password

The utility permits only three connection attempts.

Functionality

The following options are available:

- **Collect Details about the Source Oracle Identity Manager Database:**

  Enter **1** to select this option.

  Select this option to collect details of a specific source.

The utility generates a .dmp file that is named based on your input of whether or not the source is a standard Oracle Identity Manager installation.

- **For standard Oracle Identity Manager installation:** The file is named oim_std_src_db.dmp.

  This file is shipped along with the utility and is available in the following directory:

  OIM9101INSTALLER\installServer\Xellerate\db\oracle\Utilities\OIMDBVal idator\SrcInfo

  You can use this file for comparison or upgrade verification.

- **For nonstandard Oracle Identity Manager installation:** The file is named oim_src_db.dmp.

■ **Compare Source Oracle Identity Manager Database with a Destination Oracle Identity Manager Database:**

Enter **2** to select this option.

Choose either to compare against a standard dump or a user-created dump for a specific source:

- To compare against a standard dump, copy oim_std_src_db.dmp from SoureMetadataDump910 to SrcInfo. If SrcInfo is not already available, then create a new directory. The oim_std_src_db.dmp file is a dump of OIM 910 Vanilla installation.

  > **Note:** If the comparison with the standard dump indicates any difference, then contact Oracle support.

- To compare against a user-created dump, copy your dump file to SrcInfo. The name of the dump file must be oim_src_db.dmp.

You have options for choosing the source for comparison, whether to calculate the number of rows in the destination Oracle Identity Manager database tables, or to drop the comparison tables.

■ **Exit:** Enter **3** to select this option.

Choose this option to close the utility.

5.2.4.3 Sample Comparison Summary Report The following is a sample summary report of the Database Validator utility:

```
##############################################################################
################        R E P O R T        ##########################
####################################################################
Start Time (hh:mi:ss:mmm) : 15:09:39:370
=============================================================
===================== S U M M A R Y =========================
=============================================================
 OIM OBJECT TYPE SOURCE     DESTINATION   COMPARE STATUS
 -------------- ---------- ---------- --------------------
-------------------
 TABLE                6           5 1 TABLE MISSING
 COLUMN              26          23 3 COLUMNS MISSING
 PK                   6           5 1 PKS MISSING
```

```
PK COL                    7          6 1 PK COLS MISSING
FK                        1          0 1 FKS MISSING
FK COL                    1          0 1 FK COLS MISSING
U INDEX                   2          2 SUCCESSFUL
UIDX COL                  5          5 SUCCESSFUL
NU INDEX                  1          1 SUCCESSFUL
NUIDX COL                 1          1 SUCCESSFUL
VIEW                      1          1 SUCCESSFUL
PROCEDURE                 1          1 SUCCESSFUL
FUNCTION                  1          1 SUCCESSFUL
TRIGGER                   1          1 SUCCESSFUL


=============================================================== DETAILS OF
DIFFERENCES  ===================================================================
 ###################### MISSING OBJECTS  #########################

 MISSING OBJECT'S NAME          MISSING OBJECT'S TYPE
 ----------------------------  ------------------------------
 AAP                            TABLE
 PK_AAP                         PK
 FK_AAD_FK_AAD_AC_ACT          FK


####################MIS-MATCHEDOBJECTS  ################
*********************
MISSING TABLE COLUMNS
*********************
 OBJECT NAME      OBJECT TYPE PARENT OBJECT     PARENT OBJECT TYPE DATATYPE
COLUMN LENGTH ISNULL
 -------------------- ----------- -------------------- ------------------
--------------- ------------- -----
 AAP_KEY          COLUMN    AAP             TABLE         numeric
9 NO
 ACT_KEY          COLUMN    AAP             TABLE         numeric
9 NO
 AAP_VALUE         COLUMN    AAP              TABLE          varchar
200 YES


*******************************************************
COLUMN DETAILS OF PRIMARY KEYS, FOREIGN KEYS & INDEXES
*******************************************************
 OBJECT NAME          OBJECT TYPE PARENT OBJECT       PARENT OBJECT TYPE COLUMN
POSITION CHILD TABLE          CHILD TABLE COLUMN
 -------------------- ----------- -------------------- ------------------
--------------- -------------------- --------------------
 AAP_KEY          PK COL    PK_AAP              PK
1
 ACT_KEY          FK COL    FK_AAD_FK_AAD_AC_ACT FK
1 ACT               ACT_KEY


=============================================================== SEED METADATA
COMPARISION  ===================================================================
 NO DIFFERENCES FOUND.


End Time (hh:mi:ss:mmm) : 15:09:39:387
```

5.3 Upgrading Oracle Identity Manager

To upgrade from release 9.1.0 to release 9.1.0.1, you first upgrade the existing Oracle Identity Manager database and then install Oracle Identity Manager release 9.1.0.1.

> **Note:**
>
> It is assumed that you have already upgraded the database by performing the procedure described earlier in this document.
>
> Do not attempt to upgrade to release 9.1.0.1 from any other previous Oracle Identity Manager release.
>
> If you are installing Oracle Identity Manager for the first time, then see *Oracle Identity Manager Installation and Configuration Guide for Oracle WebLogic Server for Release 9.1.0.1.*

The procedure to upgrade Oracle Identity Manager depends on the application server that you are using:

- Section 5.3.1, "Upgrading Oracle Identity Manager on Oracle WebLogic Server"
- Section 5.3.2, "Upgrading Oracle Identity Manager on JBoss Application Server"
- Section 5.3.3, "Upgrading Oracle Identity Manager on IBM WebSphere Application Server"
- Section 5.3.4, "Upgrading Oracle Identity Manager on Oracle Application Server"

5.3.1 Upgrading Oracle Identity Manager on Oracle WebLogic Server

To upgrade Oracle Identity Manager on Oracle WebLogic Server:

> **See Also:** *Oracle Identity Manager Installation and Configuration Guide for Oracle WebLogic Server for Release 9.1.0.1* for detailed instructions

1. Install Oracle WebLogic Server 10.3.
2. Upgrade the database.
3. Install Oracle Identity Manager release 9.1.0.1 on Oracle WebLogic Server 10.3 pointing to the upgraded database.

5.3.2 Upgrading Oracle Identity Manager on JBoss Application Server

To upgrade Oracle Identity Manager on JBoss Application Server:

> **See Also:** *Oracle Identity Manager Installation and Configuration Guide for JBoss Application Server for Release 9.1.0.1* for detailed instructions

1. Install JBoss Application Server 4.2.3.
2. Upgrade the database.
3. Install Oracle Identity Manager release 9.1.0.1 on JBoss Application Server 4.2.3 pointing to the upgraded database.

5.3.3 Upgrading Oracle Identity Manager on IBM WebSphere Application Server

To upgrade Oracle Identity Manager on IBM WebSphere Application Server:

1. Create a backup of the following directories:

   ```
   OIM_HOME/xellerate/lib
   OIM_HOME/xellerate/webapp
   OIM_HOME/xellerate/DDTemplates
   OIM_HOME/xellerate/ext
   OIM_HOME/xellerate/config
   OIM_HOME/xellerate/setup
   ```

2. Upgrade IBM WebSphere Application Server and the application client to version 6.1.0.19. Refer to the application server documentation for instructions.

3. Copy the following:

   - All JAR files from *PATCH*/xellerate/lib to *OIM_HOME*/xellerate/lib

   - All files from *PATCH*/xellerate/webapp to *OIM_HOME*/xellerate/webapp

   - All files from *PATCH*/xellerate/DDTemplates to *OIM_HOME*/xellerate/DDTemplates

   - All JAR files from *PATCH*/xellerate/ext to *OIM_HOME*/xellerate/ext

     ---
     Note: For a clustered installation, copy the files to each node of the cluster.

   - The Version.prop file from *PATCH*/xellerate/config to *OIM_HOME*/xellerate/config. For a clustered installation, copy the file to each node of the cluster.

   - The following files from *PATCH*/xellerate/setup to *OIM_HOME*/xellerate/setup.

     - setup.xml

     - websphere-setup.xml

     - WebSphereCreateDataSource.jacl

   - Copy files from the *PATCH*/documentation directory to the *OIM_HOME*/documentation directory.

     Copy the *PATCH*/readme.html file to the *OIM_HOME* directory.

4. Perform the following steps:

   Note: Ensure that the application server is running before you apply the Oracle Identity Manager patch files. After the patches are applied, you must stop and restart the application server for the patches to take effect.

   ---

   a. Delete the following from the *OIM_HOME*/xellerate/Profiles/websphere.profile file:

      ```
      datasource.user.password=DATASOURCE_PASSWORD
      websphere.admin.password=WEBSPHERE_ADMIN_PASSWORD
      ```

   b. Change the values of the following variables:

- For Microsoft Windows, change the values of the following variables (if not already set) in the *OIM_HOME*\xellerate\setup\patch_WebSphere.cmd file:

  @JAVA_HOME=@java_home (here, @java_home is the actual path of the Java directory)

  @PATH=@loc\ant\bin:$PATH (here, @loc is the actual path of the Oracle Identity Manager directory)

  @PROFILE_NAME=@profile_name (here @profile_name is the actual application server profile name)

- For UNIX, change the values of the following variables (if not already set) in the *OIM_HOME*/xellerate/setup/patch_WebSphere.sh file:

  @JAVA_HOME=@java_home (here, @java_home is the actual path of the Java directory)

  @PATH=@loc/ant/bin:$PATH (here, @loc is the actual path of the OIM directory)

  @PROFILE_NAME=@profile_name

c. Run the following script:

- For Microsoft Windows:

  ```
  OIM_HOME\xellerate\setup\patch_WebSphere.cmd WEBSPHERE_ADMIN_PASSWORD
  DATASOURCE_PASSWORD
  ```

- For UNIX:

  ```
  OIM_HOME/xellerate/setup/patch_WebSphere.sh WEBSPHERE_ADMIN_PASSWORD
  DATASOURCE_PASSWORD
  ```

Note: For a clustered setup of IBM WebSphere Application Server, run the script from the NDM host.

5.3.4 Upgrading Oracle Identity Manager on Oracle Application Server

To upgrade Oracle Identity Manager on Oracle Application Server:

1. Create a backup of the following directories:

```
OIM_HOME/xellerate/lib
OIM_HOME/xellerate/webapp
OIM_HOME/xellerate/DDTemplates
OIM_HOME/xellerate/ext
OIM_HOME/xellerate/config
OIM_HOME/xellerate/setup
```

2. Copy the following:

- All JAR files from *PATCH*/xellerate/lib to *OIM_HOME*/xellerate/lib

- All files from *PATCH*/xellerate/webapp to *OIM_HOME*/xellerate/webapp

- All files from *PATCH*/xellerate/DDTemplates to *OIM_HOME*/xellerate/DDTemplates

- All JAR files from *PATCH*/xellerate/ext to *OIM_HOME*/xellerate/ext

- The Version.prop file from *PATCH*/xellerate/config to
  OIM_HOME/xellerate/config. For a clustered installation, copy the file to
  each node of the cluster.

- The following files from *PATCH*/xellerate/setup to
  OIM_HOME/xellerate/setup:

  setup.xml

  oc4j-setup.xml

- Copy files from the *PATCH*/documentation directory to the
  OIM_HOME/documentation directory.

  Copy the *PATCH*/readme.html file to the *OIM_HOME* directory.

3. Perform the following steps:

   > **Note:** Ensure that the application server is running before you apply
   > the Oracle Identity Manager patch files. After the patches are applied,
   > you must stop and restart the application server for the patches to take
   > effect.

   i. Change the values of the following variables:

   - For Microsoft Windows, change the values of the following variables (if not
     already set) in the *OIM_HOME*\xellerate\setup\patch_oc4j.cmd file:

     @java_loc: actual path of the Java directory

     @oracle_home: *ORACLE_HOME*

     @loc: *OIM_HOME*\xellerate\

   - For UNIX, change the values of the following variables (if not already set) in
     the *OIM_HOME*/xellerate/setup/patch_oc4j.sh file:

     @java_loc: actual path of the Java directory

     @oracle_home: *ORACLE_HOME*

     @loc: *OIM_HOME*/xellerate/

   ii. Run the following script:

   - For Microsoft Windows:

     OIM_HOME\xellerate\setup\patch_oc4j.cmd *OAS_ADMIN_PASSWORD*
     DATASOURCE_PASSWORD

   - For UNIX:

     OIM_HOME/xellerate/setup/patch_oc4j.sh *OAS_ADMIN_PASSWORD*
     DATASOURCE_PASSWORD

4. Restart the Oracle Identity Manager server. For a clustered installation, restart each
   node of the cluster.

5.4 Upgrading the Oracle Identity Manager Design Console

To upgrade the Oracle Identity Manager Design Console to release 9.1.0.1:

1. Create a backup of the following directory:

```
OIM_DC_HOME\xlclient\lib
```

2. Create a backup of the following files:

```
OIM_DC_HOME\xlclient\XLDesktopClient.ear
OIM_DC_HOME\xlclient\xlFvcUtil.ear
```

3. Replace the contents of the following directory with the contents of the *PATCH*/xlclient/lib directory:

```
OIM_DC_HOME\xlclient\lib
```

4. Copy the following files:

   - XLDesktopClient.ear from *PATCH*\xlclient to *OIM_DC_HOME*\xlclient

   - xlFvcUtil.ear from *PATCH*\xlclient to *OIM_DC_HOME*\xlclient

If you are using IBM WebSphere Application Server as the application server, then update the xlDataObjectBeans.jar file as follows:

Note: Ensure that you perform these steps after you have performed the procedure described in "Upgrading Oracle Identity Manager on IBM WebSphere Application Server".

---

1. In a Web browser, connect to the WebSphere administrative console by using a URL of the following format:

```
http://NDM_HOST:NDM_PORT/admin
```

2. Log in by using the Oracle Identity Manager administrator account that you specified during installation.

3. Click **Applications**, and then select **Enterprise Applications**.

4. Select **Xellerate application**.

5. Click **Export**.

6. Save the xellerate.ear file to a temporary directory.

7. Extract the xlDataObjectBeans.jar file from the xellerate.ear file.

Note: Ensure that you extract the xlDataObjectBeans.jar file and not the xlDataObjects.jar file.

---

8. Copy the xlDataObjectBeans.jar file into the *OIM_DC_HOME*/xlclient/lib directory.

5.5 Upgrading the Oracle Identity Manager Remote Manager

To upgrade the Oracle Identity Manager Remote Manager to release 9.1.0.1:

- For Oracle WebLogic Server and JBoss Application Server, reinstall the Oracle Identity Manager release 9.1.0.1 Remote Manager.

> **See Also:** *Oracle Identity Manager Installation and Configuration Guide for JBoss Application Server for Release 9.1.0.1*
>
> *Oracle Identity Manager Installation and Configuration Guide for Oracle WebLogic Server for Release 9.1.0.1*

- For IBM WebSphere Application Server and Oracle Application Server:

  1. Create a backup of the *OIM_RM_HOME*/xlremote/lib directory.

  2. Replace the contents of the lib directory with the contents of the *PATCH*/xlremote/lib directory.

5.6 Redeploying the Diagnostic Dashboard

After upgrading to Oracle Identity Manager release 9.1.0.1, you must redeploy the Diagnostic Dashboard by performing the procedure described in one of the following sections:

- Section 5.6.1, "Redeploying the Diagnostic Dashboard on Oracle WebLogic Server"

- Section 5.6.2, "Redeploying the Diagnostic Dashboard on IBM WebSphere Application Server"

- Section 5.6.3, "Redeploying the Diagnostic Dashboard on JBoss Application Server"

- Section 5.6.4, "Redeploying the Diagnostic Dashboard on Oracle Application Server"

5.6.1 Redeploying the Diagnostic Dashboard on Oracle WebLogic Server

To redeploy the Diagnostic Dashboard on Oracle WebLogic Server, see "Installing the Diagnostic Dashboard" in *Oracle Identity Manager Installation and Configuration Guide for Oracle WebLogic Server for Release 9.1.0.1*.

5.6.2 Redeploying the Diagnostic Dashboard on IBM WebSphere Application Server

To redeploy the Diagnostic Dashboard on IBM WebSphere Application Server, see "Installing the Diagnostic Dashboard" in *Oracle Identity Manager Administrative and User Console Guide for Release 9.1.0*.

5.6.3 Redeploying the Diagnostic Dashboard on JBoss Application Server

To redeploy the Diagnostic Dashboard on JBoss Application Server, see "Installing the Diagnostic Dashboard" in *Oracle Identity Manager Installation and Configuration Guide for JBoss Application Server for Release 9.1.0.1*.

5.6.4 Redeploying the Diagnostic Dashboard on Oracle Application Server

To redeploy the Diagnostic Dashboard on Oracle Application Server, see "Installing the Diagnostic Dashboard" in *Oracle Identity Manager Administrative and User Console Guide for Release 9.1.0*.

6 Customizations

This section lists all the Oracle Identity Manager release 9.1.0 user interface (UI) related files that have been modified for release 9.1.0.1. These files are listed in the following sections:

6.1 JavaServer Pages

The following JavaServer pages have been modified in release 9.1.0.1:

ModifyConnectorFieldInfoTiles.jsp

tjspMenuNoStruts.jsp

DualListComponent.jsp

ReportFormFieldsDisplay.jsp

tjspForm.jsp

tjspGenerateEditForm.jsp

AssignResourceAdministratorsTiles.jsp

CIWAssignGroupITResourceTiles.jsp

CIWEditITResourceTiles.jsp

CIWViewITResourceTiles.jsp

CIWViewScheduledTaskTiles.jsp

ConfigureReconDataFlowTiles.jsp

DirectProvisionUserWizard_ProvideChildProcessDataTilesInclude.jsp

DirectProvisionUserWizard_ProvideParentProcessDataTilesInclude.jsp

MyProxyViewProxyAssignTilesInclude.jsp

OrgResourceProfileProvisioningTasksTiles.jsp

requestDetailTiles.jsp

requestTrackTilesInclude.jsp

ResourceAdministratorsTiles.jsp

ResourceAuthorizersTiles.jsp

ResourceProfileProvisioningTasksTiles.jsp

SearchGroupTiles.jsp

SelectGroupToAssignToTaskTiles.jsp

SelectUserToAssignToTaskTiles.jsp

tjspConfirmAssignOrganizationAdministratorsStep1Tiles.jsp

tjspConfirmUpdateOrganizationAdministratorsStep1Tiles.jsp

tjspLogoffTimeoutTiles.jsp

tjspLogonTiles.jsp

tjspProvideChallengeAnswersConfirmTiles.jsp

tjspSearchOrganizationTiles.jsp

tjspSearchUserTiles.jsp

tjspSelfRegTrackRequestTiles.jsp

tjspSetChallengeAnswersConfirmTiles.jsp

tjspSetChallengeAnswersTiles.jsp

tjspSetChallengeQuestionsTiles.jsp

tjspUserMemberOfTiles.jsp

tjspVerifyUserIdTiles.jsp

tjspViewAdministratorsOrganizationDetailsTiles.jsp

UpdateResourceAdministratorsTiles.jsp

UserDefinedChildFormEditTilesInclude.jsp

UserDefinedFormEditTilesInclude.jsp

UserGroupAdministratorsAssignTiles.jsp

UserGroupAdministratorsTiles.jsp

UserGroupAdministratorsUpdatePermissionsTiles.jsp

UserGroupPermissionsTiles.jsp

UserGroupPoliciesTiles.jsp

UserGroupReportsTiles.jsp

UserGroupUnassignedPermissionsTiles.jsp

UserGroupUpdatePermissionsTiles.jsp

UserProxyNoProxyDefinedTiles.jsp

UserProxyViewProxyAssignTilesInclude.jsp

6.2 Java Files

The following Java files have been modified in release 9.1.0.1:

AssociatedEntitiesForResourceAction.java

CreateConnectorAction.java

CreateConnectorPopUpAction.java

CreateConnectorPopUpForm.java

DirectProvisionOrganizationAction.java

DirectProvisionUserAction.java

LoadDeploymentUtilityAction.java

ManageAccessPoliciesAction.java

ManageAttestationAction.java

ManageAttestationTaskAction.java

ManageITResourceAction.java

ManageITResourceForm.java

ManageScheduledTaskAction.java

ManageScheduledTaskForm.java

OpenTasksAction.java

OrgResourceProfileProvisioningTasksAction.java

OrgResourceProfileProvisioningTasksForm.java

ProvisionedResourcesForUserAction.java

RegistrationHelpPageAction.java

RequestAction.java

RequestTrackAction.java

ResourceAdministratorsAction.java

ResourceAdministratorsForm.java

ResourceAuthorizersAction.java

ResourceAuthorizersForm.java

ResourceProfileProvisioningTasksAction.java

ResourceProfileProvisioningTasksForm.java

ResourceWorkflowsAction.java

SearchGroupAction.java

SearchResourceAction.java

tcAction.java

tcChangePasswordAction.java

tcForgetPasswordAction.java

tcITResourceLookupFieldAction.java

tcLogonAction.java

tcLogonForm.java

tcLookupFieldAction.java

tcManageGroupAction.java

tcManageOrganizationAction.java

tcManageOrganizationForm.java

tcManageUserAction.java

tcModifyProfileAction.java

tcRequestProvisionResourceAction.java

tcRequestUserProvisionResourceAction.java

tcRequestWizardAction.java

tcSearchOrganizationAction.java

tcSearchUserAction.java

tcSelfRegistrationAction.java

tcSelfRegTrackRequestAction.java

tcSetChallengeQuestionsAction.java

tcUserMemberOfAction.java

tcUserMemberOfForm.java

UserDefinedFormAction.java

UserGroupAccessPoliciesAction.java

UserGroupAdministratorsAction.java

UserGroupAdministratorsForm.java

UserGroupMembersAction.java

UserGroupMembershipRulesAction.java

UserGroupMenuItemsAction.java

UserGroupPermissionsAction.java

UserGroupPermissionsForm.java

UserGroupReportsAction.java

UserGroupReportsForm.java

6.3 Properties File

The following properties have been modified in the resource bundle for the Diagnostic Dashboard:

xldd.vdtest.xlSQL_display1=One or more 'Microsoft SQL Server Driver for JDBC' files were not found.

xldd.dftest.tValidateSQLServerDefinition_description=Oracle Identity Manager requires 'Microsoft SQL Server Driver for JDBC' to work with Microsoft SQL Server. This test verifies if these JDBC drivers are available to the application server.

xldd.dftest.sqlServer_description=Oracle Identity Manager requires 'Microsoft SQL Server Driver for JDBC' to work with Microsoft SQL Server. This test verifies if these JDBC drivers are available to the application server.

xldd.vdtest.driverNotFound=One or more 'Microsoft SQL Server Driver for JDBC' files were not found.

xldd.bctest.errors.itResourceName=The IT Resource Instance is not available. Enter a valid IT Resource Instance Name.

The following properties have been modified in the resource bundle for Oracle Identity Manager:

global.label.calendar=Select to access date picker

global.error.duplicateFormData=The entered form data already exists.

global.error.duplicateFormDataAdvice=Please select another field value.

user.label.filterByGroupName=Filter By Group Name

user.button.searchMemberGroupName=Search

UserGroupPolicies.error.noPermsToDelete=No Permission To Delete

UserGroupPolicies.error.noPermsToDeleteDescription=You don't have rights to Delete one or more selected Access policies.

label.atetstation.comment=Reassigning Attestation Process as Grace Period has expired. the reviewer for this Process was

trackrequest.error.selectUser=Please Specify Username.

AboutXl.message.header=© Oracle Corporation

resourceMgmt.resourceAdministrators.error.noAdminFoundWithSearchCriteria=No Administrator found with given search criteria

resourceMgmt.resourceAdministrators.button.searchAssignedGroup=Find

resourceMgmt.resourceAdministrators.button.searchUpdateGroup=Go

resourceMgmt.resourceAuthorizers.button.searchAssignedGroup=Find

resourceMgmt.resourceWorkflows.label.removeKeyCaseInsensitiveField=Click to remove the setting of case insensitive

resourceMgmt.resourceWorkflows.label.addKeyCaseInsensitiveField=Click to add the setting of case insensitive

UserGroupPermissions.message.FilterByPermissionName=Filter by Permission Name:

UserGroupPermissions.message.button.searchAssignedPermissionName=Find

UserGroupPermissions.message.button.searchUpdatePermissionName=Search

UserGroupPermissions.message.button.searchUnAssignedPermissionName=Go

manageOrganization.label.filterByGroupName=Filter By Group Name

manageOrganization.button.searchAssignedGroup=Search

manageOrganization.button.searchUnassignedGroup=Find

manageOrganization.button.searchUpdatePermissionGroup=Go

UserGroupReports.error.noPermsToDelete=No Permission to Delete.

UserGroupReports.error.noPermsToDeleteDescription=You have no permission to delete one or more selected reports.

UserGroupMembershipRules.error.noPermsToDelete=No Permision to Delete.

UserGroupMembershipRules.error.noPermsToDeleteDescription=You don't have rights to Delete one or more Rules.

UserGroupAdministrators.label.filterByGroupName=Filter By Group Name

UserGroupAdministrators.button.SearchByGroupName=Search

UserGroupAdministrators.button.SearchByUnassginedGroupName=Find

UserGroupAdministrators.button.SearchByUpdatePermissionGroupName=Go

UserGroupAdministrators.error.cannotDeleteGroup=Can not delete this group.

UserGroupAdministrators.error.noPermsToDelete=No Permision to Delete.

UserGroupAdministrators.error.noPermsToDeleteDescription=You don't have rights to Delete one or more selected Administrative Groups.

global.FormInfoDesc.Lookup.Change-self-password-menu-item=Change Self Password menu item

global.FormInfoDesc.Lookup.Create-generic-connector=Create Generic Technology Connector menu item

global.FormInfoDesc.Lookup.Manage-generic-connector=Manage Generic Technology Connector menu item

modifyConnector.label.caseInsensitive=Case-Insensitive

global.button.stopexecution=Stop Execution

manageITResource.resourceAdministrators.button.search=Search Group

manageITResource.resourceAdministrators.button.find=Find Group

manageITResource.resourceAdministrators.button.go=Filter Group

manageITResource.resourceAdministrators.label.filterByGroupName=Filter By Group Name

manageITResource.resourceAdministrators.error.adminNotFound=There are no administrators associated with this It Resource

global.resultSet.Form~Information.Description.Create~generic~connector=Create Generic Technology Connector menu item

global.resultSet.Form~Information.Description.Manage~generic~connector=Manage Generic Technology Connector menu item

global.resultSet.Form~Information.Description.Change~self~password~menu~item= Change Self Password menu item

7 Related Documents

For more information, see the following documents in the Oracle Identity Manager documentation set for release 9.1.0.1:

> **Note:** The remaining Oracle Identity Manager documents can be accessed from the Oracle Identity Manager release 9.1.0 documentation library on Oracle Technology Network.

- *Oracle Identity Manager Installation and Configuration Guide for JBoss Application Server*
- *Oracle Identity Manager Installation and Configuration Guide for Oracle WebLogic Server*
- *Oracle Identity Manager Administrative and User Console Customization Guide*
- *Oracle Identity Manager Audit Report Developer's Guide*

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