

# Oracle Identity Governance Bundle Patch Readme

This document is intended for users of OIM BUNDLE PATCH 12.2.1.4.240415. It contains the following sections:

 **Note:**

For issues documented after the release of OIM BUNDLE PATCH 12.2.1.4.240415, see My Oracle Support Document 2602696.1 at <https://support.oracle.com/>.

- [Understanding Bundle Patches](#)
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- [Applying the Bundle Patch to an Existing Instance](#)
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## Understanding Bundle Patches

This section describes bundle patches and explains differences between bundle patches, patch set exceptions (also known as one-offs), and patch sets.

- [Stack Patch Bundle](#)
- [Bundle Patch](#)
- [Patch Set Exception](#)
- [Patch Set](#)

### Stack Patch Bundle

Stack patch Bundle deploys the IDM product and dependent FMW patches using a tool. For more information about these patches, see *Quarterly Stack Patch Bundles (Doc ID 2657920.1)* at <https://support.oracle.com>.

### Bundle Patch

A bundle patch is an official Oracle patch for an Oracle product. In a bundle patch release string, the fifth digit indicated the bundle patch number. Effective November 2015, the version numbering format has changed. The new format replaces the numeric fifth digit of the bundle version with a release date in the form "YYMMDD" where:

- YY is the last 2 digits of the year
- MM is the numeric month (2 digits)
- DD is the numeric day of the month (2 digits)

Each bundle patch includes the libraries and files that have been rebuilt to implement one or more fixes. All of the fixes in the bundle patch have been tested and are certified to work with one another. Regression testing has also been performed to ensure backward compatibility with all components in the bundle patch.

### Patch Set Exception

In contrast to a bundle patch, a patch set exception addressed only one issue for a single component. Although each patch set exception was an official Oracle patch, it was not a complete product distribution and did not include packages for every component. A patch set exception included only the libraries and files that had been rebuilt to implement a specific fix for a specific component.

## Patch Set

A patch set is a mechanism for delivering fully tested and integrated product fixes. A patch set can include new functionality. Each patch set includes the libraries and files that have been rebuilt to implement bug fixes (and new functions, if any). However, a patch set might not be a complete software distribution and might not include packages for every component on every platform. All of the fixes in a patch set are tested and certified to work with one another on the specified platforms.

## Recommendations

Oracle has certified the dependent Middleware component patches for Identity Management products and recommends that you apply these certified patches. For more information about these patches, see *Certification of Underlying or Shared Component Patches for Identity Management Products (Doc ID 2627261.1)* at <https://support.oracle.com>.

## Bundle Patch Requirements

You must satisfy the following requirements before applying this bundle patch:

- Verify that you are applying this bundle patch to an Oracle Identity Governance 12.2.1.4.0 installation.

### Note:

When installing OPatch, you might find that interim or one off patches have already been installed.

- Download the latest version of OPatch. Oracle recommends using the latest version of OPatch to all customers. To learn more about OPatch and how to download the latest version, see *Using OUI NextGen OPatch 13 for Oracle Fusion Middleware 12c (Doc ID 1587524.1)* at <https://support.oracle.com>.

You can access My Oracle Support at <https://support.oracle.com>.

- Verify the OUI Inventory. To apply patches, OPatch requires access to a valid OUI Inventory. To verify the OUI Inventory, ensure that ORACLE\_HOME/OPatch appears in your PATH for example:

```
export PATH=$ORACLE_HOME/OPatch:$PATH
```

Then run the following command in OPatch inventory

```
opatch lsinventory
```

If the command returns an error or you cannot verify the OUI Inventory, contact Oracle Support. You must confirm the OUI Inventory is valid before applying this bundle patch.

- Confirm the opatch and unzip executables exist and appear in your system PATH, as both are needed to apply this bundle patch. Execute the following commands:

```
which opatch  
which unzip
```

Both executables must appear in the PATH before applying this bundle patch.

- Ensure that there are no pending JMS messages in Oracle Identity Governance server. You can monitor JMS messages with WebLogic console.

## Prerequisites of Applying the Bundle Patch

Before applying the bundle patch, perform the following prerequisites:

- This patch process makes changes to Oracle Identity Governance database schema (such as adding/modifying data), Oracle Identity Governance Meta Data Store (MDS) database schema (such as adding/modifying data), domain configuration changes, and other binary changes in the file system under ORACLE\_HOME on which Oracle Identity Governance is installed. It is mandatory to create a backup of the following:
  - Oracle Identity Governance, MDS, and Service-Oriented Architecture (SOA) database schemas. For example, the database schema can be DEV\_OIM, DEV\_MDS schemas used by Oracle Identity Governance. Simple export of the schemas is sufficient.
  - The ORACLE\_HOME directory on which Oracle Identity Governance is installed, for example, /u01/Oracle/Middleware.
  - Oracle Identity Governance WebLogic Domain location, for example, /u01/Oracle/Middleware/user\_projects/domains/IAMGovernanceDomain/.
  - The UNIX user applying the Bundle Patch must have read, write, and execute permissions on both ORACLE\_HOME as well as WebLogic DOMAIN\_HOME.
- If you have customized the event handler file metadata/iam-features-configservice/event-definition/EventHandlers.xml in your setup, then perform the following steps to ensure that the upgrade does not override any customization done to this file:
  1. Export the metadata/iam-features-configservice/event-definition/EventHandlers.xml file from MDS, and create a backup of this file.
  2. After upgrading and running all the post install steps, export the new metadata/iam-features-configservice/event-definition/EventHandlers.xml file, merge your customization to this new file, and import it back to MDS.

 **Note:**

For more information on MDS Utilities, see [MDS Utilities and User Modifiable Metadata Files](#).

## Applying the Bundle Patch to an Existing Instance

Applying OIM BUNDLE PATCH 12.2.1.4.240415 is done in the following stages:

 **Note:**

Before performing the steps to apply the bundle patch, create a backup of the database, as stated in [Prerequisites of Applying the Bundle Patch](#) which will help you roll back to the previous release.

- [Understanding the Process Sequence With an Example](#)
- [Stage 1: Patching the Oracle Binaries \(OPatch Stage\)](#)
- [Stage 2: Filling in the patch\\_oim\\_wls.profile File](#)
- [Stage 3: Patching the Oracle Identity Governance Managed Servers \(patch\\_oim\\_wls Stage\)](#)

## Understanding the Process Sequence With an Example

If you have ORACLE\_HOME\_A and ORACLE\_HOME\_B, and ORACLE\_HOME\_A is running WebLogic Admin Server, oim\_server1, and soa\_server1, and ORACLE\_HOME\_B is running oim\_server2 and soa\_server2, then the following is the process sequence to apply the bundle patch to the Oracle Identity Governance instance:

1. Shutdown the Oracle Identity Governance managed servers, the SOA managed servers and the Admin Server in this order.
2. Run 'Opatch apply' on ORACLE\_HOME\_A. See [Stage 1: Patching the Oracle Binaries \(OPatch Stage\)](#) for more information.
3. Run 'Opatch apply' on ORACLE\_HOME\_B. See [Stage 1: Patching the Oracle Binaries \(OPatch Stage\)](#) for more information.
4. Fill-in the patch\_oim\_wls.profile file and run patch\_oim\_wls on ORACLE\_HOME\_A with WebLogic Admin Server, oim\_server1, and soa\_server1 running. The rest of the servers on other nodes can be down.

See [Stage 2: Filling in the patch\\_oim\\_wls.profile File](#) for information on filling in the patch\_oim\_wls.profile.

See [Stage 3: Patching the Oracle Identity Governance Managed Servers \(patch\\_oim\\_wls Stage\)](#) for information about running patch\_oim\_wls.

5. Restart the managed servers on all the nodes.

## Stage 1: Patching the Oracle Binaries (OPatch Stage)

This section describes the process of applying the binary changes by copying files to the ORACLE\_HOME directory, on which Oracle Identity Governance is installed. This step must be executed for each ORACLE\_HOME in the installation topology nodes irrespective of whether Oracle Identity Governance server is being run in the node or not.

Perform the following steps to apply the bundle patch to an existing Oracle Identity Governance instance:

1. Stop all Oracle Identity Governance managed servers, all SOA managed servers and the Admin Server in this order
2. Create a directory for storing the unzipped bundle patch. This document refers to this directory as PATCH\_TOP.
3. Unzip the patch zip file in to the PATCH\_TOP directory you created in step 2 by using the following command:

```
unzip -d PATCH_TOP p36513778_122140_Generic.zip
```

### Note:

On Windows, the unzip command has a limitation of 256 characters in the path name. If you encounter this issue, use an alternate ZIP utility, for example 7-Zip to unzip the zip file.

Run the below command to unzip the file:

```
"c:\Program Files\7-Zip\7z.exe" x p36513778_122140_Generic.zip
```

4. Move to the directory where the patch is located. For example:

```
cd PATCH_TOP/36513778
```

5. Set the ORACLE\_HOME directory in your system. For example:

```
export ORACLE_HOME=/u01/Oracle/Middleware
```

6. Ensure that the OPatch executables are present in your system PATH. To update the PATH environment variable to include the path of Opatch directory, run the following command:

```
export PATH=$ORACLE_HOME/Opatch:$PATH
```

7. Apply the bundle patch to the ORACLE\_HOME using the following command for Oracle Identity Governance:

```
opatch apply
```

 **Note:**

If OPatch fails with error code 104, cannot find a valid oraInst.loc file to locate Central Inventory, include the -invPtrLoc argument, as follows:

```
opatch apply -invPtrLoc ORACLE_HOME/oraInst.loc
```

When OPatch starts, it will validate the patch and ensure there are no conflicts with the software already installed in the ORACLE\_HOME. OPatch categorizes two types of conflicts:

- Conflicts with a patch already applied to the ORACLE\_HOME. In this case, stop the patch installation and contact Oracle Support.
- Conflicts with subset patch already applied to the ORACLE\_HOME. In this case, continue the install, as the new patch contains all the fixes from the existing patch in the ORACLE\_HOME. The subset patch will automatically be rolled back prior to the installation of the new patch.

 **Note:**

For clustered and multi-node installation of Oracle Identity Governance, this step must be run on all the ORACLE\_HOME directories on which Oracle Identity Governance is installed.

8. Once the patch is applied, perform the following changes.
  - Open the file 'oim12c\_ddl\_quartz\_upgrade\_2.5.sql' found at `<OIM_HOME>\server\db\oim\oracle\Upgrade\oim12cps4\list` and update lines 216 and 916 as given below:  
Change from:  

```
EXECUTE IMMEDIATE 'ALTER TABLE QRTZ92_FIRED_TRIGGERS ADD SCHED_TIME LONG NOT NULL';
```

  
To:  

```
EXECUTE IMMEDIATE 'ALTER TABLE QRTZ92_FIRED_TRIGGERS ADD SCHED_TIME LONG DEFAULT 0 NOT NULL';
```
  - Open the file `oim_upg_12cps3_12cps4.sql` found at `<OIM_HOME>\server\db\oim\oracle\Upgrade\oim12cps3_2_12cps4` and update the following in line 2645 and 3346.  
Change from:

```
EXECUTE IMMEDIATE 'ALTER TABLE QRTZ92_FIRED_TRIGGERS ADD
SCHED_TIME LONG NOT NULL';
```

To:

```
EXECUTE IMMEDIATE 'ALTER TABLE QRTZ92_FIRED_TRIGGERS ADD
SCHED_TIME LONG DEFAULT 0 NOT NULL';
```

9. Start all the servers in the OIG domain, which are the Admin Server, SOA Server, and Oracle Identity Governance Server.

## Stage 2: Filling in the patch\_oim\_wls.profile File

Using a text editor, edit the file `patch_oim_wls.profile` located in the directory `ORACLE_HOME/idm/server/bin/` directory and change the values in the file to match your environment. The `patch_oim_wls.profile` file contains sample values.

### Note:

For clustered and multinode installation of Oracle Identity Governance, perform the step described in this topic on the `ORACLE_HOME_A` directory on which Oracle Identity Governance is installed. This is because you need to run the `patch_oim_wls` script from the node with WebLogic Admin Server, `oim_server1`, and `soa_server1` installed. In the `patch_wls_oim.profile` file, mention the host and port of the Oracle Identity Governance server and SOA server running on the first node. When you run the script, only WebLogic Admin Server, `oim_server1`, and `soa_server1` should be running, and the rest of the servers can be down.

[Table 1-1](#) lists the information to be entered for the `patch_oim_wls.profile` file. This file is used in next stage of the bundle patch process.

**Table 1-1 Parameters of the patch\_oim\_wls.profile File**

Parameter	Description	Sample Value
<code>ant_home</code>	Location of the ANT installation. It is usually under <code>MW_HOME</code> .	For Linux: <code>\$MW_HOME/oracle_common/modules/thirdparty/org.apache.ant/1.10.5.0/apache-ant-1.10.5/</code> For Windows: <code>%MW_HOME%\oracle_common\modules\thirdparty\org.apache.ant\1.10.5.0\apache-ant-1.10.5\</code>




**Table 1-1 (Cont.) Parameters of the patch\_oim\_wls.profile File**

Parameter	Description	Sample Value
java_home	Location of the JDK/JRE installation that is being used to run the Oracle Identity Governance domain.	For Linux: <JAVA_HOME_PATH> consumed by \$MW_HOME For Windows: <JAVA_HOME_PATH> consumed by %MW_HOME%
mw_home	Location of the Middleware home on which Oracle Identity Governance is installed.	For Linux: /u01/Oracle/ Middleware For Windows: C:\Oracle\MW_HOME\
oim_oracle_home	Location of the Oracle Identity Governance installation.	For Linux: \$MW_HOME/idm For Windows: %MW_HOME%\ idm
soa_home	Location of the SOA installation.	For Linux: \$MW_HOME/soa For Windows: %MW_HOME%\ soa
weblogic.server.dir	Directory on which WebLogic server is installed.	For Linux: \$MW_HOME/ wlserver For Windows: %MW_HOME%\ wlserver
domain_home	Location of the domain home on which Oracle Identity Governance is installed.	For Linux: \$MW_HOME/user_projects/ domains/base_domain For Windows: %MW_HOME%\ user_projects\domains\base_ domain
weblogic_user	Domain administrator user name. Normally it is weblogic, but could be different as well.	weblogic
weblogic_password	Domain admin user's password. If this line is commented out, then password will be prompted.	NA

**Table 1-1 (Cont.) Parameters of the patch\_oim\_wls.profile File**

Parameter	Description	Sample Value
soa_host	Listen address of the SOA Managed Server, or the hostname on which the SOA Managed Server is listening.	oimhost.example.com

 **N**  
**o**  
**t**  
**e**  
**:**  
**I**  
**f**  
**t**  
**h**  
**e**  
**S**  
**O**  
**A**  
**M**  
**a**  
**n**  
**a**  
**g**  
**e**  
**d**  
**S**  
**e**  
**r**  
**v**  
**e**  
**r**  
**i**  
**s**  
**c**  
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**n**  
**f**  
**i**  
**g**  
**u**  
**r**  
**e**  
**d**  
**t**  
**o**

**Table 1-1 (Cont.) Parameters of the patch\_oim\_wls.profile File**

Parameter	Description	Sample Value
		use a v i r t u a l P a d d r e s s , t h e n t h e v i r t u a l h o s t n a m e m u s t b e s

**Table 1-1 (Cont.) Parameters of the patch\_oim\_wls.profile File**

Parameter	Description	Sample Value
		u p p l i e d .
soa_port	Listen port of the SOA Managed Server, or SOA Managed Server port number.	8001 Only Non-SSL Listen port must be provided.
operationsDB.user	Oracle Identity Governance database schema user.	DEV_OIM
OIM.DBPassword	Oracle Identity Governance database schema password. If this line is commented out, then the password will be prompted when the script is executed.	NA
operationsDB.host	Hostname of the Oracle Identity Governance database.	oimdbhost.example.com
operationsDB.serviceName	Database service name of the Oracle Identity Governance schema/database. This is not the hostname and it can be a different value as well.	oimdb.example.com
operationsDB.port	Database listener port number for the Oracle Identity Governance database.	1521
mdsDB.user	MDS schema user	DEV_MDS
mdsDB.password	MDS schema password. If this line is commented out, then password will be prompted.	NA
mdsDB.host	MDS database hostname	oimdbhost.example.com
mdsDB.port	MDS database/Listen port	1521
mdsDB.serviceName	MDS database service name	oimdb.example.com
oim_username	Oracle Identity Governance username.	System administrator username

**Table 1-1 (Cont.) Parameters of the patch\_oim\_wls.profile File**

Parameter	Description	Sample Value
oim_password	Oracle Identity Governance password. This is optional. If this is commented out, then you will be prompted for the password when the script is executed.	NA
oim_serverurl	URL to navigate to Oracle Identity Governance.	t3:// oimhost.example.com:14000
wls_serverurl	URL to navigate to WLS Console	t3:// wlshost.example.com:7001
opss_customizations_present =false	Enables customizations related to authorization or custom task flow. Set this value to true to enable customization.	true
ATP-D	Set the value to false if DB type is not ATP-D. Set this to true if underlying DB type is ATP-D.	true
TNS_ADMIN	Set this value only if the value of ATP-D is true. Set this value to the TNS String as provided by DB Admin, for example, fmwatpdedic2_tp? TNS_ADMIN=/home/opc. Here, /home/opc is the path of the wallet zip that is downloaded. If you are using some other predefined service, then provide the path to that service.	fmwatpdedic2_tp? TNS_ADMIN=/home/opc

 **Note:**

Update the parameter value as per the setup used and then execute the `patch_oim_wls.sh` file.

### Stage 3: Patching the Oracle Identity Governance Managed Servers (patch\_oim\_wls Stage)

Patching the Oracle Identity Governance managed servers is the process of copying the staged files in the previous steps to the correct locations, running SQL scripts and importing event handlers and deploying SOA composite. For making MBean calls, the

script automatically starts the Oracle Identity Governance Managed Server and SOA Managed Server specified in the patch\_oim\_wls.profile file.

This step is performed by running patch\_oim\_wls.sh (on UNIX) or patch\_oim\_wls.bat (on Microsoft Windows) script by using the inputs provided in the patch\_oim\_wls.profile file. As prerequisites, the WebLogic Admin Server, SOA Managed Servers, and Oracle Identity Governance Managed Server must be running.

 **Note:**

For clustered and multinode installation of Oracle Identity Governance, perform the steps described in this topic on the ORACLE\_HOME\_A directory on which Oracle Identity Governance is installed. In other words, run the patch\_oim\_wls script from the node with WebLogic Admin Server, oim\_server1, and soa\_server1 installed. When you run the script, only WebLogic Admin Server, oim\_server1, and soa\_server1 should be running, and the rest of the servers can be down.

To patch Oracle Identity Governance Managed Servers on WebLogic:

1. Make sure that the WebLogic Admin Server, SOA Managed Servers, and Oracle Identity Governance Managed Server are running.
2. Set the following environment variables:

For LINUX or Solaris, set the JAVA\_HOME environment variable:

```
export JAVA_HOME=<JAVA_HOME_PATH>
export PATH=$JAVA_HOME/bin:$PATH
```

For Microsoft Windows:

```
set JAVA_HOME=<JAVA_HOME_PATH>
set ANT_HOME=\PATH_TO_ANT_DIRECTORY\ant
set ORACLE_HOME=%MW_HOME%\idm
```

 **Note:**

Make sure to set the reference to JDK binaries in your PATH before running the `patch_oim_wls.sh` (on UNIX) or `patch_oim_wls.bat` (on Microsoft Windows) script. This `JAVA_HOME` must be of the same version that is being used to run the WebLogic servers. The `JAVA_HOME` version from `/usr/bin/` or the default is usually old and must be avoided. You can verify the version by running the following command:

```
java -version
```

3. Execute `patch_oim_wls.sh` (on UNIX) or `patch_oim_wls.bat` (on Microsoft Windows) to apply the configuration changes to the Oracle Identity Governance server. On Linux systems, you must run the script in a shell environment using the following command:

```
sh patch_oim_wls.sh
```

 **Note:**

For EDG implementations, this script must be run against the `mserver` domain directory rather than the server domain directory.

4. Delete the following directory from OIG domain home:  
`$DOMAIN_HOME/servers/oim_server1/tmp/_WL_user/oracle.iam.console.identity.self-service.ear_V2.0`  
Here, `oim_server1` is the weblogic managed server used for OIG.
5. To verify that the `patch_oim_wls` script has completed successfully, check the `ORACLE_HOME/idm/server/bin/patch_oim_wls_YYYY-MM-DD_hh-mm-ss.log` log file.

 **Note:**

On running the `patch_oim_wls` script, the `$DOMAIN_HOME/servers/MANAGED_SERVER/security/boot.properties` file might be deleted. If you use a script to start the Managed Server and use the `boot.properties` file to eliminate the need of entering the password in the script, then create a new `boot.properties` file.

In an EDG environment, the `boot.properties` file is in `MSERVER_HOME/servers/MANAGED_SERVER/security`.

6. Stop and start WebLogic Admin Server, SOA Server, and Oracle Identity Governance Server.
  - Shutting down Oracle Identity Governance server might take a long time if it is done with force=false option. It is recommended that you force shutdown Oracle Identity Governance server.
  - The patch\_oim\_wls script is re-entrant and can be run again if a failure occurs.

## Applying the Bundle Patch to a New Instance

Perform the following steps to apply the bundle patch to a new instance:

- [Installing a New Oracle Identity Governance Instance with OIM BUNDLE PATCH 12.2.1.4.240415](#)
- [Updating Oracle Identity Governance Web Applications](#)
- [Prerequisites of Applying the Bundle Patch](#)

## Installing a New Oracle Identity Governance Instance with OIM BUNDLE PATCH 12.2.1.4.240415

You can install a new Oracle Identity Governance instance with the bundle patch in any one of the following ways:

- [Using the Quickstart Installer](#)
- [Using the Generic Installer](#)

### Using the Quickstart Installer

To install a new instance of Oracle Identity Governance with the bundle patch by using the Quickstart installer:

 **Note:**

For clustered deployments, perform the steps provided in this section on each node in the cluster.

1. Start the installation by referring to [Installing Oracle Identity Governance Using Quickstart Installer](#) of *Installing and Configuring Oracle Identity and Access Management*. Before creating the database schema, apply the patch by using Opatch, as described in [Stage 1: Patching the Oracle Binaries \(OPatch Stage\)](#). Then, continue with schema creation.



 **Note:**

It is recommended that this step is performed before creating or extending the domain with Oracle Identity Governance.

2. Create the domain by launching the configuration wizard, as specified in [Configuring the Domain](#) of *Installing and Configuring Oracle Identity and Access Management*.
3. Run the `offlineConfigManager` command to perform post configuration tasks. See [Running the Offline Configuration Command](#) in *Installing and Configuring Oracle Identity and Access Management*.
4. Start the WebLogic Admin Server, SOA Server, and OIG server.
5. Verify that you are able to log in to Oracle Identity Self Service or Oracle Identity System Administration.
6. Login to Oracle Enterprise Manager Fusion Middleware Control, and invoke the `OIMSOAIntegrationMBean` to integrate OIG with SOA. See [Integrating Oracle Identity Governance with Oracle SOA Suite](#) in *Installing and Configuring Oracle Identity and Access Management*.

## Using the Generic Installer

To install a new instance of Oracle Identity Governance with the bundle patch by using the generic installer:

 **Note:**

For clustered deployments, perform the steps provided in this section on each node in the cluster.

1. Start the installation by referring to [Configuring the Oracle Identity Governance Domain](#) of *Installing and Configuring Oracle Identity and Access Management*. Before creating the database schema, apply the patch by using `Opatch`, as described in [Stage 1: Patching the Oracle Binaries \(OPatch Stage\)](#). Then, continue with schema creation.

 **Note:**

It is recommended that this step is performed before creating or extending the domain with Oracle Identity Governance.

2. Create the domain by launching the configuration wizard, as specified in [Configuring the Domain](#) of *Installing and Configuring Oracle Identity and Access Management*.
3. Run the `offlineConfigManager` command to perform post configuration tasks.

4. Start the WebLogic Admin Server, SOA Server, and OIG server.
5. Verify that you are able to log in to Oracle Identity Self Service or Oracle Identity System Administration.
6. Login to Oracle Enterprise Manager Fusion Middleware Control, and invoke the OIMSOAIntegrationMBean to integrate OIG with SOA. See [Integrating Oracle Identity Governance with Oracle SOA Suite](#) in *Installing and Configuring Oracle Identity and Access Management*.

## Postinstallation Configuration

After installing a new Oracle Identity Governance instance with Bundle Patch 12.2.1.4.240415, perform the following post installation configuration steps:

- Perform the following steps to seed the event handler for Application Onboarding:
  1. Go to, `MW_HOME/idm/server/apps/oim.ear/APP-INF/lib/`.
  2. Locate `BootStrapListener.jar`. Copy the `BootStrapListener.jar` file to a temporary folder, for example `temp_AoB`. Extract the jar files and locate `aob_adapters.xml` file in the `BootStrapListener.jar/scripts/` folder.

### Note:

The jar file can be extracted using compression tool such as Zip, 7-Zip or by using jar command `jar -xvf`.

3. Copy the `aob_adapters.xml` file to a local folder.
4. Using the Import option in Identity System Administration interface, import the `aob_adapters.xml` file into Oracle Identity Governance.  
For detailed steps for importing objects into Oracle Identity Governance, see [Importing Deployments](#) in *Administering Oracle Identity Governance*.
5. Remove the temporary folder `temp_AoB`.

## Updating Oracle Identity Governance Web Applications

The procedure described in this section is applicable only when installing bundle patches for Oracle Identity Governance and not for installing patch set updates.

For updating your web applications on Oracle WebLogic Server:

1. Stop Oracle Identity Governance Managed Server.
2. Login to WebLogic Administrative Console.
3. Click **Lock & Edit**.
4. Go to **Deployments**.

5. Select the **oracle.iam.ui.view** and **oracle.iam.ui.model** app, and click **Update**. Complete the steps of the wizard by clicking **Next**. Do not change anything.
6. Click **Apply Changes**.
7. Start Oracle Identity Governance Managed Server.

## Removing the Bundle Patch

If you must remove the bundle patch after it is applied, then perform the following steps:

### Note:

For clustered installations, perform steps 1 through 3 on all nodes in the cluster.

1. Perform the same verification steps and requirement checks that you made before applying the bundle patch. For example, backup the XML files and import them to a different location, verify the OUI Inventory and stop all services running from the ORACLE\_HOME.

2. Move to the directory where the bundle patch was unzipped. For example:

```
cd PATCH_TOP/36513778
```

3. Run OPatch as follows to remove the bundle patch:

```
opatch rollback -id 36513778
```

4. Restore ORACLE\_HOME, the WebLogic domain home from the backup created before applying the patch.
5. Restore the Oracle Identity Governance database using the backup you created in Step 1 of [Applying the Bundle Patch to an Existing Instance](#).

### Note:

- The newer CertificationProcess 2.2 version composite which is deployed as a post patch automation from this patch onwards needs to be undeployed if the patch is rolled back.
- Previous version of the CertificationProcess composite must be activated.

You must adhere to the following list to undeploy the patch:

- You can no longer configure and monitor this revision of the application.

- You can no longer process instances of this revision of the application.
- The state of currently running instances is changed to aborted and no new messages sent to this composite are processed.
- The instance state of the undeployed composite application is set to aborted. The instance state is available in the instance listing, and you can access audit trail and flow trace details.
- If you undeploy the default revision of the SOA composite application (for example, 2.0), the next active, available revision of the application is automatically designated as the new default (for example, 1.0).
- A warning message is displayed at the end of this wizard when you undeploy the default composite revision.  
If no active revision is available and the default revision is undeployed, your composite may be unable to process new incoming requests. It is recommended that you have at least one active revision of this composite deployed before you undeploy the default revision.

If you undeploy this revision and no active revisions of this composite are found, a retired revision is automatically designated as the new default revision. A warning message is displayed after this wizard closes. Although all currently executing instances complete normally in retired composites, they cannot process any incoming requests. To process new incoming requests for this composite after the current default revision is undeployed, you must deploy a new revision or reactivate a previously retired revision.

For information about instance, fault, and rejected message states that are updated to aborted during undeployment, see [Updating Instance, Fault, and Rejected Message States to Aborted During Undeployment or Redeployment](#).

 **Note:**

If you want to undeploy and then redeploy an existing revision of this application, do not use this wizard. Instead, use the Redeploy SOA Composite wizard. The Redeploy SOA Composite wizard enables you to redeploy an existing revision of a SOA composite application and remove (overwrite) the older, currently deployed version of the revision.

To undeploy applications:

 **Note:**

You can undeploy multiple SOA composite applications together if they are located in the same SOA folder. For information, refer [Managing SOA Folders and Work Manager Groups](#).

Once the current version is undeployed, previously retired composite needs to be activated. For more information, refer [Managing the State of Deployed SOA Composite Applications](#).

## Changes in Track Request Functionality

Track Request functionality will change after this Bundle Patch is applied.

When a user performs a search in Self Service tab, Track Requests page, and in the search result table, applies Show list option as **For Reportees**, all the requests raised by or for the logged in user and user's direct and indirect reportee are displayed.

### Note:

- The Organization Name field works only with the For Reportees feature.
- While using the Organization Name search criteria, at least one direct reportee should be associated with the organization. See [#unique\\_48](#) for the error message that is displayed when an organization name outside the reportee's organization is entered.
- Only two levels of reportees are considered, direct reportees and their immediate reportees
- The total number of direct reportees and indirect reportees must not exceed 1000. See [#unique\\_48](#) for the error message that is displayed if the number of direct reportees and indirect reportees are more than 1000.

## Access Policy Harvesting to Enable Account Data Update

As a fix for bug# 30978612 in the bundle patch, the new `XL.APHarvesting.AllowAccountDataUpdate` system property is available to update the account data with the policy defaults for the accounts linked to the access policies. This system property has the following details:

**Name:** `XL.APHarvesting.AllowAccountDataUpdate`

**Keyword:** `XL.APHarvesting.AllowAccountDataUpdate`

**Default value:** `FALSE`

When this system property is set to `TRUE`, the account data is updated with the policy defaults for the accounts linked to access policy. If set to `FALSE` or if the system property does not exist, the account data is not updated.

To enable updating the account data with the policy defaults for the accounts linked to the access policies, set the values of the `XL.APHarvesting.AllowAccountDataUpdate`, `XL.AllowAPHarvesting`, `XL.APHarvestRequestAccount`, `XL.APHarvestDirectProvisionAccount`, and `XL.AllowAPBasedMultipleAccountProvisioning` system properties to `TRUE`.

## Bulk Load Utility for Loading Accounts

With the fix for BUG 34599029, if OIG server is running in SSL mode by using default setting, while using the bulk load utility for account load, you must modify the file

`oim_blkld_accounts.sh` as shown below:

**Example for Linux:**

**Comment the line:**

```
SSL_CONFIG_PARAMS="$SSL_CONFIG_PARAMS -
Dweblogic.security.SSL.trustedCAKeyStore=$TRUSTSTORE_LOCATION -
Dweblogic.security.SSL.protocolVersion=TLSv1.2 -Dhttps.protocols=TLSv1.2 -
Dweblogic.security.SSL.minimumProtocolVersion=TLSv1.2 -
Dweblogic.ssl.JSSEEnabled=true -Dweblogic.security.SSL.enableJSSE=true -
Dweblogic.security.allowCryptoJDefaultJCEVerification=true -
Dweblogic.security.SSL.enforceConstraints=off -
Dweblogic.security.SSL.ignoreHostnameVerification=true"
```

**Add the following:**

```
SSL_CONFIG_PARAMS="-Dweblogic.security.TrustKeyStore=DemoTrust -
Dweblogic.security.SSL.ignoreHostnameVerification=true -
DproviderURL=t3s://<hostname>:<port>"
```

**Example for Windows:**

**Comment the line:**

```
set SSL_CONFIG_PARAMS=-
Dweblogic.security.SSL.trustedCAKeyStore=$TRUSTSTORE_LOCATION -
Dweblogic.security.SSL.protocolVersion=TLSv1.2 -Dhttps.protocols=TLSv1.2 -
Dweblogic.security.SSL.minimumProtocolVersion=TLSv1.2 -
Dweblogic.ssl.JSSEEnabled=true -Dweblogic.security.SSL.enableJSSE=true -
Dweblogic.security.allowCryptoJDefaultJCEVerification=true -
Dweblogic.security.SSL.enforceConstraints=off -
Dweblogic.security.SSL.ignoreHostnameVerification=true
```

**Add the below:**

```
set SSL_CONFIG_PARAMS="-Dweblogic.security.TrustKeyStore=DemoTrust -
Dweblogic.security.SSL.ignoreHostnameVerification=true -DproviderURL=
t3s://<hostname>:<port>"
```

With the fix for bug# 30145982 in the bundle patch, the Bulk Load Utility for loading account data asks for the following input:

 **Note:**

In order to run the Bulk Load Utility for account data the following requirements must be met:

- Oracle Identity Governance server is running.
- The `MW_HOME` and `OIM_ORACLE_HOME` paths must be accessible although they are running on different hosts.

1. Before running the utility, perform the following steps
  - a. Edit the `oim_blkld_accounts.sh` script, and add the following lines, and save the script.

```
$MW_HOME/wlserver/server/lib/wlfullclient.jar  
$MW_HOME/oracle_common/modules/javax.management.j2ee.jar
```

- b. Generate `wlfullclient.jar` if it is not available in the `MW_HOME/server/lib/` directory, and grant execute (755) permissions to the file.
2. Enter the `MW_HOME` directory or Press [Enter] to accept the default.
  3. Enter the `OIM_ORACLE_HOME` directory or Press [Enter] to accept the default.
  4. Enter the hostname on which OIG is running :  
It is mandatory that OIG is running on the same host.
  5. Enter the port where OIG server is running :  
The default port is 14000.
  6. Enter the path of `OIM_HOME`.
  7. Enter the OIG system administrator user name.
  8. Enter the OIG system administrator password.

## Steps to Map the Role and employeeType Attributes

If the bundle patch is applied after the OAM-OIG integration, then for the bug fix 31162758 to work, perform the following steps to map the `Role` attribute to the `employeeType` attribute:

1. Login to Oracle Identity Self Service.
2. Click the **Manage** tab, and then click the **Applications** box to open the Applications page.
3. Search for **SSOTrusted-for-SSOTargetApp** and open it.
4. Click the **Schema** tab.
5. Map `Role` to `employeeType`.
6. Save the changes.

If the bundle patch is applied to OIG before the integration with OAM, then the manual mapping of the attributes are not required.

## Copying the Oracle Identity Governance Reports ZIP Directory

Under the Request Summary page of BIP reports URL, when the Request Type is Revoke Entitlement with request start date and request end date, the Request Details column shows the entitlement number instead of the entitlement name. This issue has been fixed. For the fix to work:

1. Manually copy the contents of `$PATCH_DIRECTORY/files/oracle.oim.server/12.2.1.4.0/oracle.oim.symbol/server/reports/oim_product_BIPReports_12c.zip/*` directory to the `$BI_DOMAIN_HOME/bidata/components/bipublisher/repository/Reports/` directory.
2. Restart the BI server.

## SSO Full User Reconciliation

For the bug fix 31605187 to work:

- If the bundle patch is applied after SSO integration, then the job parameter Incremental Recon Attribute value must be provided manually for the latest token value to get updated.
- If the bundle patch is applied before SSO integration, then manual steps are not required.

## Major Enhancements in Bundle 12.2.1.4.231030

The following are the major enhancements in Oracle Identity Governance 12.2.1.4.231030:

- The unwanted accounts that are stuck in the Provisioning status can now be purged continuously using Real-time Provisioning Status based on the options or choices that are made during configuration.  
For more information refer to [Using the Real-time Provisioning Status Accounts Purge in Oracle Identity Governance](#).
- Admin users can create membership rules by assigning members to a role using an SQL query.  
For more information refer to [Creating Roles](#).
- Refer to [Default System Properties in Oracle Identity Governance](#) for the new system properties added.

## Major Enhancements in Bundle 12.2.1.4.230408



The following are the major enhancements in Oracle Identity Governance 12.2.1.4.230408:

- To enhance the user experience, the UI option **Manage Notification Template** option is now available under the **Oracle Identity Self Service** which were earlier available under the **System Administration** section.  
For more information refer to [Manage Notification Template](#).
- Admin users now have the capability to add, view or modify details for proxy users from the **User Details** page.  
For more information, see [Managing Proxies](#).
- The option to disable the **Close As Risk Accepted** action is now available for any corresponding policy violation.  
For more information, see [Creating Identity Audit Policies](#).

## Major Enhancements in Bundle Patch 12.2.1.4.221004

The following are the major enhancements in Oracle Identity Governance 12.2.1.4.221004:

- To enhance the user experience, the following UI options are now available under the **Oracle Identity Self Service** which were earlier available under the **System Administration** section.
  - Manage Scheduler
  - Manage System PropertiesFor more information refer to [Managing the Scheduler](#) and [Managing System Properties](#).



### Note:

Refer to [Scheduler and System Properties do not come up in the Integrated Environment](#).

- While configuring the Certification, you can now disable Accounts for the revoke action. For more information, see [Configuring Certification Options](#)

## Major Enhancements in Bundle Patch 12.2.1.4.220413

The following are the major enhancements in Oracle Identity Governance 12.2.1.4.220413:

- Active Directory (AD) now supports adding groups as a member of other groups.  
For more information, see [Predefined Scheduled Tasks](#).
- The new **MEMBERSHIP TYPE** column introduced in this patch appears at the end of the table for upgraded environment. To reposition the column, use the re-order column option.

## Major Enhancements in Bundle Patch 12.2.1.4.211010

The following are the major enhancements in Oracle Identity Governance 12.2.1.4.211010:

- The Access Policy feature is enhanced to manage the evaluation of users in the **Disabled** status. See [Evaluating Policies](#).
- The **Account Chooser** pop-up option is enhanced to display the **Account Type** along with the **Account Name** column while creating an Entitlement request. This helps users who access multiple accounts for the same application while requesting Entitlements.
- During certification to help reviewers for identifying the correct accounts, reviewers can use the Account Type option.
- The **Resource History** details of the Accounts section is enhanced to display the Entitlement Name and Request ID.
- **Manual Fulfillment** task, **Accounts** and **Entitlement** tabs under **User Access UI** are enhanced to display the Role Request ID.
- When users have entitlements provisioned outside of the Access Policies, a new option is provided which helps in keeping the account in the **Active** state. See [Revoking or Disabling the Policy](#).
- The `updateRoleGrant` API of RoleManager is enhanced to start owner startDate and endDate attributes.
- The **Reconciliation Jobs** section of the Application Instance is enhanced with separate reconciliation jobs for defining and managing of the application instance during application on boarding. See [Creating Application Instances](#).
- The Certification feature is enhanced to support mandatory certification comments on certify and non certify operations. The certification comments can also be mined from previous certifications and request justification. This helps the reviewer by providing better context about the access during certification. See [About Pre-populate Certification Comments](#).

## Major Enhancements in Bundle Patch 12.2.1.4.210708

The following are the major enhancements in Oracle Identity Governance 12.2.1.4.210708:

- To improve the reset password performance in Active Directory (AD) integration, a new system property is available which needs to be set to **True** and the certificate from the AD target needs to be imported. See the following topics:
  - [Default System Properties in Oracle Identity Governance](#)
  - [Improving Reset Password Performance on AD Integration](#)

## IP Filter Related Updates

IP Filter (IPF) related updates are not part of the Oracle Identity Governance bundle patch release. For instructions on how to download and applying the IPF one-off bundle patch, see [My Oracle Support document ID 2383246.1](#).

## Internet Explorer 11 Certification

This bundle patch is certified with Microsoft Internet Explorer 11. To use Oracle Identity Governance with Internet Explorer 11, download and apply ADF patch 29620828 from My Oracle Support web site at:

<https://support.oracle.com>

For information about this patch, see Tech Note *OIG 12c certification with IE11 browser (Doc ID 2556385.1)* at My Oracle Support web site at:

<https://support.oracle.com>

## Access Policy Harvesting for Direct Provisioned and Request Created Accounts

As a fix for bug# 27599841, you can link access policies to accounts created by request and to accounts that are provisioned directly.

To enable linking access policies to accounts created by request, set the values of `XL.APHarvestRequestAccount`, `XL.AllowAPHarvesting`, and `XL.AllowAPBasedMultipleAccountProvisioning` system properties to `TRUE`.

To enable linking access policies to accounts that are provisioned directly, set the values of `XL.APHarvestDirectProvisionAccount`, `XL.AllowAPHarvesting`, and `XL.AllowAPBasedMultipleAccountProvisioning` system properties to `TRUE`.

## Resolved Issues

The following section lists the issues resolved in Release 12.2.1.4.240415:

- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.240415](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.231215](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.231030](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.230708](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.230408](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.221215](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.221004](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220703](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220413](#)

- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220115](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.211010](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210708](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210112](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200624](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200505](#)
- [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200206](#)

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.240415

Applying this bundle patch resolves the issues described in [Table 1-2](#) .

**Table 1-2 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.240415**

BUG	DESCRIPTION
36356530	ENTITLEMENTS ARE NOT GETTING REMOVED FROM ENT_ASSIGN TABLE AGAINST 19C DB
34973630	SSO GROUP MEMBERSHIP INCREMENTAL RECONCILIATION DOES NOT CREATE ANY RECON EVENTS
35523244	RE-IMPORT OF INPUT XML WORKS EVEN IF CHILD FORM VERSION IN XML LOWER
35590580	SAPUM CONNECTOR CONTAINS TRANSFORMATION GROOVY SCRIPT WITH BLANK LINES
35657318	EVEN WITH PATCH 34973630 SSO GROUP MEMBERSHIP INCR RECON DOESN'T WORK
35777713	CHANGING USER ATTRIBUTE OF RULE BASED MEMBER INSERTS ROLE IN DYN_EVAL_CHANGELOG
35852568	PERF: ADDING ORGS TAKES MORE TIME WHILE CREATING CERTIFICATION DEFINITION
35892278	PERF: MEMBERSHIP RULE CREATED WITH 4LAKH+ USERS, DELETING THE RULE MEMBERS ARE NOT GETTING DELETED, SPIKE IN CPU UTILIZATION SEEN AND OIM SERVER SHUTS DOWN.
35924263	SOD: RHS USING COMBINATION OF PERIOD BRACKET, DOES NOT VIOLATE SOD RULE

**Table 1-2 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.240415**

<b>BUG</b>	<b>DESCRIPTION</b>
35932410	POLICY VIOLATIONS NOT SHOWN IN THE TRIANGULAR BUTTON AT PRE-REQUEST STAGE
35953877	STATICDEF FLAG IS MISSING IN FOR THE PERSDEFVO
35960716	BUG 28297906 PREVENTS REVOKE OF RULE-BASED ROLES BY INSERTING DYN_EVAL_CHANGELO
35967951	508 'FORGOT PASSWORD' FLOW, CHALLENGE QUESTIONS PAGE NOT COMPLIANT (REQ FIELDS)
36006909	EM CONSOLE SHOWS OIM VERSION AS 12.2.1.3 INSTEAD OF 12.2.1.4
36023997	ADDING DIAG LOGS AROUND IDENTITYAUDIT AND POLICYENGINE FOR PREVENTIVE IDA SCAN
36024115	DELETE OPTION SHOULD BE GREYED OUT IF ALREADY BEEN USED.
36037180	ENTITLEMENTS OF CHILD APPLICATION NOT PROVISIONED BY ACCESS POLICY
36038787	ACCESSIBILITY (508) OIM - TOOLBAR - FOCUS STATE AND ORDER
36103221	CVE-2019-13990
36113229	CERTIFICATION NOT TRIGGERED FROM EVENT TRIGGER TASK
36121960	IMPROVE DIAGNOSTICS IN ACCESS POLICY EVALUATION FLOW
36126035	OIG12CPS4: SSO : OOB HIREDATE ATTRIBUTE NOT PROPERLY HANDLED
36126117	OIG12CPS4: SSO : DATE ATTRIBUTE LOST A DAY (-1) ON RECONCILIATION
36131204	SORT BY ROLE NAME UNDER ORGANIZATION/AVAILABLE ROLES SHOW NO DATA UNEXPECTEDLY
36141112	MULTIPLE APP INSTANCES OF SAME RESOURCE WERE ADDED IN ACCESS POLICIES
36212358	NULLPOINTEREXCEPTION OCCURS WHILE ACCESSING A CERTIFICATION THAT HAS REVIEWER AS CERTIFIER ROLE
36237135	VIEWING CERT THROW ERROR JBO-25075: DEFINITION
36267803	OAP PORT IS BEEING USED FOR USER MODIFY OPERATIONS IN OIM-OAM 12.2.1.4 SSO

**Table 1-2 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.240415**

BUG	DESCRIPTION
36295073	CREATOR/REQUESTOR OF MANUAL FULFILLMENT TASKS ARE GENERATED INCORRECTLY
36302812	ERROR WHILE OPENING MANUAL FULFILLMENT APPROVAL PAGE FOR DISABLE/ENABLE OPERATIO
36340179	DISCONNECTED APPLICATION ENTITLEMENTS REVOKED BEFORE MANUAL FULFILLMENT APPROVED
36376218	CVE-2023-35116
36392536	PROVISIONING PURGE UPDATES ENT_ASSIGN TABLE WHICH MAKES SUNSET JOB TO REMOVE ENTITLEMENTS

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.231215

Applying this bundle patch resolves the issues described in [Table 1-3](#).

**Table 1-3 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.231215**

35525457	"USERMODIFICATIONHANDLER" HANDLER FAILS DURING TRUSTED RECON FOR DISABLE USERS
35565143	DELETED USERS ARE VISIBLE IN ORGANIZATIONS->MEMBERS TAB
35612967	NEED TO EXCLUDE NON-ADMINROLES IN PROCESS DEFS / FORMS / ITRESOUR / OBJECTPERM
35661368	MANAGE SCHEDULER JOBS PAGE FUNCTIONALITY IS NOT WORKING IN PS4
35738692	ENTITLEMENT CERTIFICATION REST API RESPONSE DOES NOT SHOW APPLICATION INFORMATIO
35754158	SCIM ORGANIZATIONS/.SEARCH TOTALRESULTS IS FALSE
35760366	PROVISIONING STUCK IN "IN PROGRESS"
35765256	CONNECTIONS LEAK REPORTED IN OIMOPERATIONSDB
35789975	EXPORTING_POLICY_WITH_REMEDIATOR_ROLE_DOES_NOT_CONTAIN_THE_ROLE
35817122	DELAYED DELETE USER JOB DOES NOT REVOKE ACCOUNTS IN SSO INTEGRATED ENVIRONMENTS
35822746	ROLE CRITERIA IN USER CERTIFICATION NOT WORKING FOR DUPLICATE ATTRIBUTES

**Table 1-3 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.231215**

35842019	CVE-2020-5421
35864584	DISABLE USER REQUEST ACTIVATES THE DISABLED USER(DISABLED TO ACTIVE) IN OIG
35867186	USERATTRIBUTES DO NOT POPULATE TO MANUALFULLFILLMENTTASK WHEN WORKFLOW IS MAPPED
35868917	AFTER JULY SPB EXPORT CERTIFICATION TO EXCEL OR PDF IS NOT WORKING
35870924	PROXY IS NOT DELETED WHEN PROXY END DATE IS TODAY
35871367	START DATE AND END DATE IN USER ACCOUNT DETAILS SHOWS GMT (NOT SERVER TZ)
35875469	PREVENTATIVE VALIDATION DOESN'T WORK IF THE APP INSTANCE IS INVALID
35875486	PREVENTIVE VIOLATION PICKS UP INVALID ENT AND APPS FROM PENDING REQUESTS
35928423	WRONG TOTAL NUMBER OF USERS WITH UDFS IN THE CERTIFICATION TABLE
36023389	OIG INVOKING WRONG OAM REST API TO DELETE USER SESSION
36087514	PATCHAUTOMATIONIMPORTMDS#MERGETASKDEFINITIONS METHOD SETS "RETENSION PERIOD"

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.231030

Applying this bundle patch resolves the issues described in [Table 1-4](#).

**Table 1-4 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.231030**

BUG	DESCRIPTION
23600922	CAPABILITY TO PURGE ACCOUNTS STUCK IN PROVISIONING STATUS
25119504	NEED TO HIDE OR REMOVE REVOKED APPLICATIONS FROM ACCOUNTS TAB OF SELF-SERVICE UI
31827019	SQL QUERIES ACTING AS THE RULES FOR THE MEMBERSHIP RULES MODULE
31895578	ORGANIZATION >> AVAILABLE ROLES TAB DOESN'T DISPLAY ALL ROLES PUBLISHED TO THE ORG
33404712	DESIGN CONSOLE LOGIN FAILS AFTER DISABLING REMOTE ANONYMOUS RMI T3 AND IIOP REQU

**Table 1-4 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.231030**

<b>BUG</b>	<b>DESCRIPTION</b>
34761033	BENEFICIARY APPROVAL OF THEIR OWN REQUEST VIA PROXY
34882216	AUDIT TABLE UPA_UD_FORMS POOR PERFORMANCE
34995051	CUSTOM TASK FAILS WITH COLUMN 'MEMBERSHIP_TYPE' NOT FOUND
35092650	PERFORMANCE ISSUE IN THE NEW UI FOR NEW SCHEDULED JOB
35108073	USER WITH ORCLOIMCERTIFICATIONADMINISTRATOR ADMIN ROLE CAN'T DO SCHEDULER
35212285	APPLICATION INSTANCES STILL VISIBLE DESPITE DELETION AND APPLICATION INSTANCE PO
35236038	MODIFY ACCOUNT CAN'T REMOVE RECORD WITH CHILD FORM IN DISCONNECTED RES APP INST
35246783	FIX OF 35023263 NOT RAISING POLICY VIOLATIONS ON UI FOR CATALOG.USER DEFINED TAGS ATTRIBUTE.
35261043	MULTIPLE ACCESS POLICIES WITH CHILD MULTI-VALUE ATTRIBUTES NOT REVOKING PROPERLY
35273891	CVE-2023-1436
35289186	CERTIFICATION NOT PICKING UP ENTITLEMENTS WITH IS_REQUESTABLE 0
35294931	LARGE AP ELEMENTS CANNOT DELETE CHILD RECORDS DUE TO OPEN CURSOR LIMIT
35317518	CVE-2019-10086
35326933	ERROR EDITING THE EXISTING SECOND LOOKUP IN THE CHILD FORM DURING MODIFY REQUEST
35341638	SETBCCEMAILIDS() ISSUE
35354591	THERE IS NO START/END-DATE CHECKING WHEN AN ENTITLEMENT IS UPDATED
35411880	POST DELETE APPLICATION INSTANCE JOB DOESN'T COMPLETE
35421790	NEED TO EXCLUDE NON-ADMINROLES IN PROCESS DEFS / FORMS / ITRESOURCE
35436101	12C MULTIPLE PROCESS TASKS ON DISCONNECTED APP INSTANCE WITH DELETE TRIGGER TYPE
35436503	REST API - SELF-SERVICE, PATCH OPERATION,USR_MANAGER_KEY NOT UPDATED



**Table 1-4 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.231030**

<b>BUG</b>	<b>DESCRIPTION</b>
35446503	DUPLICATE API GETADMINROLES CALLS WHEN SEARCH FOR USERS
35456414	SUPPORT SSL FOR OAM ENDPOINT /OAM/SERVICES/REST/ACCESS/API/V1/SESSIONS
35458670	EVALUATE USER POLICY JOB SEARCH FROM SCHEDULER PAGE IS TAKING LONGER TIME
35520647	CHANGE END DATE TASK NOT TRIGGERED ON UPDATING END DATE FOR SSO TARGET APPL
35550752	NLS:ESPAÑOL OIG 12.2.1.4.230408 -"RETRY TASK" AND "MANUALLY COMPLETE" DISABLED
35570861	ROLE CRITERIA IN USER CERTIFICATION NOT PROPERLY FORMATTED
35632246	SELF REGISTRATION REQUEST COMPLETES WITH STATUS "REQUEST COMPLETED WITH ERRORS"
35650887	INDIRECT MEMBER WITH SYSTEM ADMIN ROLE IS NOT ABLE TO SEE REQUESTS FOR APPROVAL
35684263	ORA-04025: MAXIMUM ALLOWED LIBRARY OBJECT LOCK ALLOCATED
35687958	USER WITH ADMIN ROLE ORCLOIMUSERHELPDESK UNABLE TO VIEW USERS IN ORG
35708519	WHILE ADDING PROXY USERS DELEGATE/ REASSIGN OPTIONS NEED TO BE CONFIGURABLE
35729545	CONNECTION AND CURSORS LEAK DURING PROVISIONING
35742374	SUNRISE OF ACCOUNTS AND ENTITLEMENTS JOB NOT MAPPING REQUEST KEY IN SOA PAYLOAD
35849805	ROLE: THE NEW MEMBERSHIP RULE 'CREATE SQL MEMBERSHIP RULE' ONCE WE CREATE THIS FOR ROLE AND TRY TO DELETE THE MEMBERSHIP RULE, THE RULE IS NOT GETTING REMOVED FOR ROLE

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.230708

Applying this bundle patch resolves the issues described in [Table 1-5](#).

**Table 1-5 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.230708**

<b>BUG</b>	<b>DESCRIPTION</b>
35363934	OAM OIG INTEGRATION MOVING FROM SIMPLE MODE TO CERT
33913444	ORACLE DBUM FULL RECON UPDATE EVENTS FOR SYS SYSTEM
34362937	Fix for Bug 34362937
34988170	ADMINISTRATIVE TASK SHOWS LAST PERSON UPDATING THE COMMENT FOR ALL COMMENTS
34988622	OIM JOB_RESULT TABLE CAUSES PERFORMANCE PROBLEMS IN NEW SCHEDULER UI
35067357	OIG12CPS4: SUNSET/SUNRISE FAILING FOR ACCOUNTS AND ENTITLEMENTS DUE DATA FORMAT
35089634	POLICY VIOLATION IS TAKING USER TYPE AS NULL EVEN THOUGH THERE A VALUE ASSIGNED
35091907	START DATE UPDATED TASK GOES TO REJECTED STATE FOR FUTURE DATED USERS
35132725	LINE ITEMS SHOW INCORRECT WHEN "ROW DISPLAYED" IS MODIFIED TO DEFAULT VALUE(10)
35170888	Fix for Bug 35170888
35172134	IMPORT FAILS DUE TO UNWANTED TAG OPENING ANCHOR TAGS TASKCLASS CLASS ORACLE.IAM.SCHEDULER.VO.SCHEDULED TASK CLOSING ANCHOR TAGTASKCLASS
35179150	REMOVE ADDITIONAL CHILD DATA FROM MANUAL PROVISIONING REQUESTS
35200244	IMPORTING DDM XML FOR AN EXISTING ADMINROLE IGNORES CONTENTS OF SCOPEDORGLIST
35219680	ADDING DIAG LOGS AROUND OIM TCSEVERPROPERTIES AND DIRECTDB CONNECTION
35317482	Fix for Bug 35317482
35317518	Fix for Bug 35317518
35317535	Fix for Bug 35317535
35387946	ORGANIZATION IS SET WRONGLY WHEN IMPORTING DDM XML FOR AN EXISTING ADMINROLE

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.230408

Applying this bundle patch resolves the issues described in [Table 1-6](#).

**Table 1-6 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.230408**

25478776	NEED CHECKBOX TO THE PASSWORD POLICY - 'DISALLOW WHITE SPACE'
30181040	AOB SSHPUBKEY PRIVATEKEY EXPECTED TYPE CLASS GUARDEDSTRING ACTUAL TYPE CLASS STRING
30413184	METADATA.MAR CORRUPTS MDS UPON RESTART
32703922	USERS SPECIFIED USING NOTIFICATIONEVENT SETCCEMAILIDS RECEIVE NO EMAIL
32792706	FIX PARTIALLY WORKING FOR BUG 30013863 ON 12CPS4 AP'21 BP
33032487	ATTEMPTING TO MIGRATE LOOKUP UDFS THROWS JAVA.LANG.NULLPOINTEREXCEPTION
33043978	WHEN SEARCHING, USER DETAILS FROM MANAGER/DIRECT REPORTS ARE SHOWN INCORRECT
33200385	PUMA: INCORRECT VIOLATION DATA ON ENTITLEMENTS THAT ARE REMEDIATED/RE-GRANTED
33640314	NORWEGIAN CHARACTERS IN LOOKUPS ARE NOT LOADED CORRECTLY
34018046	CERTIFICATIONS TAKING TOO LONG TO RUN, QUERYING ROLES NOT SELECTED
34282250	CREATE USER WORKFLOW IS NOT TRIGGERED WHILE CREATING USER USING SCIM API
34310069	TOO MANY PARSE ERRORS FROM SQL IN DB ALERT LOG
34413082	ADMIN USER NOT ABLE TO VIEW/EDIT / MODIFY THE DELEGATE/PROXY INFORMATION
34477734	ACCESS DETAILS AND ACTION HISTORY TABLE IN SOA VIOLATION TASK MISSING SOME INFO
34477796	ABILITY TO CONFIGURE RISK ACCEPTED BEHAVIOR OPTIONALLY
34501158	IAM-3056102 THE OPERATION ON ROLEUSER RELATION FAILED POST 12.2.1.4.220413 BP
34570273	OIG12C: PAGINATION / SCROLLING PROBLEM IN HIERARCHY TAB OF ROLE

**Table 1-6 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.230408**

34650686	APPLICATION INSTANCE POST DELETE PROCESSING JOB IS NOT DELETING APP INSTANCES
34684420	ACTION COLUMN NOT UPDATED IN THE MANUAL FULFILLMENT REQUEST FOR DISCONNECTED APP
34688859	ADMIN ROLE DENY ATTRIBUTE DOESN'T CONSIDER SCOPE OF CONTROL
34702434	ACCESSPOLICYSERVICE.CREATEACCESS POLICY() API ALLOWS CREATION OF AP WITH NULL DES
34721942	MODIFY ACCOUNT MANUAL FULLFILMENT NOT WORKING FOR FLAT FILE CONNECTOR
34739248	OIM.DBDIAGNOSTICLEVELRECON=FINEST CAUSES CHILDLESS RESOURCE RECONS TO FAIL
34748958	SSO GROUP RECONCILIATION DOESN'T WORK IF MEBERS HAVE ' IN THE DN
34779933	#{PAGEFLOWSCOPE.REQUESTFORMCONT EXT.OPERATION} ALWAYS EVALUATES TO MODIFY
34798654	ACTIVE DIRECTORY GROUPS LOOKUP RECONCILIATION NOT WORKING WHEN ADDING SEARCH BASE AS CUSTOM PARAMETER
34801749	NPEX WHEN TRYING TO SAVE AN ACCESS POLICY
34809482	MODIFY ACCOUNT MANUAL FULLFILMENT SHOW INCONSISTENT DATA FOR ENTITLEMENTS
34811588	Fix for Bug 34811588
34813588	UPDATE CHILD FORM TASK IS UNABLE TO RETRIEVE CHILD PRIMARY KEY FROM CHILD TABLE
34828086	ENTITLEMENTS DISPLAYED ONLY WITH QUERY BY EXAMPLE FOR SOME USERS
34869328	ADMINISTRATIVE TASK VIEW SHOWING USER ID WHO CREATED FU
34881105	INVALID LOGGING IN DELETEUSERACTIONHANDLER.DODELET EACTIONBULK
34887505	CHANGES TO CASCADED LOOKUPS DEFINED IN APP. FORMS ARE NOT SAVED TO MDS SOMETIMES
34911148	NULLPOINEREXCEPTION IN IDENTITY USERSEARCH WHEN LOOKING FOR REPORTEE/MANAGER_KEY

**Table 1-6 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.230408**

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34928350	REST MULTIPLE ENTITLEMENT REVOCATION FAILS WITH UI ERROR INVALID CHARACTER
34966911	OIM R12.2.1.4.221004 - SCHEDULER - MULTI-SELECT FEATURE
34971283	INDEXOUTOFBOUNDSEXCEPTION THROWN FROM REQUESTCONTEXTRESOLVERIMPL GETBENEFICIARYENITIVITYKEY
34971803	CHANGE NEEDED IN BULKLOAD SCRIPT TO SUPPORT SSL CONFIGURATION
34979424	REST API TO UPDATE ROLE END DATE SUCH THAT IT CREATES A REQUEST TO USER MANAGER
34986264	CERTIFICATION IS NOT GENERATED FOR CUSTOM ACCESS REVIEWERS WITH SPECIAL CHARACTE
34994816	SCHDULER EXPORT HAS WRONG NAME FOR TASKNAME
35027637	ERROR MESSAGE NOT PROPER WHEN ATTEMPTED TO REMEDIATE ENTITLEMENT FOR WHICH ALREADY REVOKE REQUEST EXIST
35032549	Fix for Bug 35032549
35042479	ERROR WHILE UPGRADING ODSEE/ODU/ LDAPV3 CONNECTOR UPGRADE 11.1.1.6.0 TO 12.2.1.3
35066195	NEW OJET BASE NOTIFICATION UI
35077243	AFTER BUGFIX 34310069, NULLPOINTEREXCEPTION IN OIMDBROLEMEMBERSSEARCHRESPONSE
35092033	REMOVE WHITE SPACE CHARACTER SUPPORT FROM ALLOWED CHARS AND REQUIRED CHARS
35092181	AFTER 34946809 FIX THE IMPORT STILL NOT WORKING ALL THE TIME
35141173	AOB: THE REVOKE FOR DISCONNECTED APPINSTANCE IS NOT WORKING,IT IS NOT GENERATING MANUAL FULLFILLMENT TASK

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## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.221215

Applying this bundle patch resolves the issues described in [Table 1-7](#).

**Table 1-7 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.221215**

<b>Bug Number</b>	<b>Description</b>
32306106	12C: SOME NEWLY INTRODUCED UI PAGES THROW ERROR IF FQDN IS NOT USED IN OIM URLS.
33012531	REMOVE MDS BACKUP FROM UPGRADE READINESS
33397258	PUMA: WITH PATCH 32739740 ONLY THE FIRST DIRECT REPORTEE WILL OPEN
33830206	OIM DATA PURGE JOB - DOESN'T DELETE UPA RECORDS
34049064	IAM-3050056:THE SPECIFIED VALUE {1} FOR ATTRIBUTE ... IS NOT ONE OF THE PREDEF
34353519	OIM CERTIFICATE DOWNLOAD FROM COMPLIANCE TAB
34400138	PROVISIONING COMPLETES ON DISABLED USER IN 12.2.1.4.
34533542	CHILD REQ REPORTS VIOLATION DESPITE OTHER REJECTED CHILD REQ IN IDA RULE
34549257	LOGS ARE FILLED WITH TOO MANY <ERROR> <ORACLE.IAM.APPLICATION.IMPL> MESSAGES
34560252	OIM12C PS4 ALLOWING APPINSTANCE HETEROGENOUS REQUEST FOR DISABLED USER
34569844	NPEX IN ACCESSPOLICYUTIL.EVALUATEPOLICIESFORUSER
34599029	OIM BULK LOAD UTILITY NOT WORKING
34649115	ONLY 301 ENTITLEMENTS GET EXPORTED TO EXCEL FILE AFTER APPLYING 34326544 FIX.
34658420	PROCESS PENDING ROLE GRANTS JOB FAILS FOR A DELETED USER
34671135	API ROLEMANAGERRESULT GETSUCCEEDEDRESULTS() GETFAILEDRESULTS() BROKEN
34686736	APHARVESTING DOES'NT HARVEST RECONCILED ENTITLEMENT IF ACCOUNT IS PROVISIONED AP
34699238	INDEX MISSING ON OSI.REQUEST_KEY
34699795	BULK LOAD ALLOWS ENTRY WITH LEADING/TRAILING SPACES IN ATTRIBUTE
34727876	INCORRECT LOG LEVEL - TRYING TO DELETE USER SESSION FOR OPERATION MODIFY

**Table 1-7 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.221215**

Bug Number	Description
34766479	PERFORMANCE ISSUE WHEN OPENING THE JOBS PAGE AND THERE ARE HUNDREDS OF THEM
34810671	PERFORMANCE ISSUE WHEN LOADING THE NEW SCHEDULER UI
34846921	FIX UPGRADE READINESS SCRIPT IN PS4 TO AVOID TAKING MDS BACKUP
34854621	REST ENTITLEMENT REVOCATION FAILS WITH NULLPOINTEREXCEPTION STARTING IN OIG 12.2.1.4.220703.

 **Note:**

For details on the known issue, see [Revoke Multiple Entitlements Using Rest API](#).

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.221004

Applying this bundle patch resolves the issues described in [Table 1-8](#)

**Table 1-8 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.221004**

BUG	DESCRIPTION
24322033	AUTO REFRESH OIM PAGE ACROSS ALL UIS
29894165	PROXY API NOT WORKING FOR REHIRED USER
30702571	REQUEST SSOTARGET APP ROLE FORM ATTRIBUTE MAPPING
31353266	SSOTARGET RECON SITUATIONS & RESPONSE HAS INCORRECT MAPPING FOR NO MATCHES FOUND

**Table 1-8 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.221004**

<b>BUG</b>	<b>DESCRIPTION</b>
31431709	IN ACCESS POLICY IF WE ADD RESOURCE WITH ACCROUNT DISCRIMINATOR IN DENY, IT IS NOT ALLOWING TO CREATE ACCESSPOLICY
32883804	GRANT ENTITLEMENT API NOT WORKING AS PART OF TIMEBOUND ENTITLEMENT PROVISIONING
33519449	Fix for Bug 33519449
33522017	CONFIGURELDAPCONNECTOR NEEDS TO BE RUN 3 TIMES TO CONFIGURE SSO
33600552	NO POLICY VIOLATION CREATED WHEN REQUESTING FOR A ROLE TO USER BELONGING TO AN ORGANIZATION
33613649	UI NOT FULLY TRANSLATED IN POLISH
33741041	OIG 12.2.1.4.210708 EMAIL NOTIFICATION CANNOT BE EDITED FROM GUI
33747680	BULKLOAD UTILITY (ACCOUNT LOAD) IS NOT WORKING FOR CONTAINERIZED OIG ENVIRONMENT
33825625	DIAG - OFFLINECONFIGMANAGER DOES NOT TRACK IT'S OUTPUT IN ANY LOG FILE
33866184	OIM CERTIF CLOSED LOOP REMEDIATION - SUPPORT DISABLING ACCOUNTS WHEN REVOKED
33885210	BULKLOAD DOES NOT SYNC OIM USERS TO THE CORRECT LDAP DN IN SSO
33929285	JAVA.LANG.INDEXOUTOFBOUNDSEXCEPTI ON: INDEX: 1, SIZE: 1 IN REQUESTDATASERVICEIMPL
33939119	CERTIFICATION RELEASE TASK BUTTON DISAPPEARS AFTER RE-LOGIN
33976554	ATTRIBUTE NOT PRESENT IN ENTITYDEFINITION OF USER :: DEPROVISIONING DATE
33994385	CERTIFICATION CAMPAIGN IS NOT SHOWING 100% WHEN ONE OF THE TASK IS RE-ASSIGNED
34051711	ENTITLEMENT CERTIFICATION LAST NAME SORT NOT WORKING
34057045	ADD / REMOVE ENTITLEMENT ACTION SCRIPT DO NOT PASS REQUIRED ATTRIBUTES
34064672	BULK LOAD: BULK LOAD IS THROWING ERROR WHILE RUNNING WITH WINDOWS SETUP
34069171	CAN'T DELETE "PASSWORD" FROM "SCHEMA" TAB



**Table 1-8 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.221004**

<b>BUG</b>	<b>DESCRIPTION</b>
34092726	CHANGE PASSWORD BY END USER DOES NOT CREATE EMAIL NOTIFICATION
34096398	IAM-2050243 IAM-3058111- MOVE USER TO ADMIN GROUP AND BACK DOES NOT WORK SUCCESSFULLY
34120986	SAVING CHILD INSTANCES MAKES NO CHANGES TO SCHEMA/GROOVY SCRIPT AFTER SPB
34141708	PURGECACHE, UPLOADJARS.SH, DELETEJARS.SH BROKEN IN 12.2.1.4.220413
34160281	DISABLE USER REQUEST, DISABLE DELETED USER (DELETED TO ACTIVE)
34176856	BUCKLOAD ORG DATA HANGS
34182519	USERMANAGER.GETDETAILS API IS RETURNING DELETED USER IN OIM 12C
34229665	OIM DISABLING USER WITH DISABLED UNTIL START DATE STATUS GETTING ACTIVE STATUS
34240720	FUTURE REHIRES ARE GETTING ENABLED ON THE DAY RECON EVENT IS RECEIVED
34246374	MANAGERS NOT ABLE TO CERTIFY/ REVOKE THE CERTIFICATION REQUESTS IN CERTIFICATION DETAILS PAGE
34267986	POOR PERFORMANCE OF THE AUDIT ENGINE
34284352	BULK LOAD: ACCOUNT LOAD IS NOT CONSIDERING HTTP URL IN ENTER THE OIMURL OPTION, IT IS ONLY CONSIDERED T3 URL
34287521	NPE WHEN RESOURCE HISTORY IS EMPTY
34294450	TASK HISTORY DIFFERENCES AFTER UPGRADE
34325459	CERTIFICATION ENTITLEMENT REVOKE REQUEST SHOW WRONG REQUESTER.
34326544	FOR A GIVEN PROVISIONED USER, ONLY 28 ENTITLEMENTS ARE DISPLAYED IN THE IDENTITY CONSOLE
34332846	TRUSTED RECON: UNEXPECTED DISABLE TASK TRIGGERED
34350516	SSO ENV USER NOT CREATED IN OUD WHEN CREATED WITH USR_LOCKED = 1 USING REST API
34357705	CAN'T VIEW ORG VALUES. SQL ERROR.

**Table 1-8 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.221004**

<b>BUG</b>	<b>DESCRIPTION</b>
34363691	CHANGE TASK SHOULD NOT TRIGGER FOR REJECTED DISCONNECTED APPLICATION
34372274	OIGOAMINTEGRATION.SH - ADDMISSINGOBJECTCLASSES DOES NOT ADD MISSING OBJECTCLASSES FOR OID
34400746	OIM12C PS4 IS ALLOWING DUPLICATE REQUEST SUBMISSION FOR PROVISIONED ENTITLEMENTS
34404091	OIM ALLOWS ROLE WITH WHITESPACE ON THE END - CORRUPTS ROLES IN SSO
34411390	OIM BULK LOAD UTILITY FAILS ON WINDOWS FOR ACCOUNT LOAD SINCE OCT 2020 BP
34450144	DISABLED USER STATUS BECOMES ACTIVE AFTER SSO USER RECON
34454245	NEW OJET BASE SCHEDULER UI
34454254	NEW OJET BASE SYSTEM CONFIGURATION UI
34469432	OIM_SP_ANONYMIZE_DATA_WRAPPER SP SEARCHES FOR USR_LOGIN INSTEAD OF USR_KEY
34483392	TRACK REQUEST STATUS DROP DOWN IS NOT TRANSLATED FULLY
34498058	CERTIFICATION TESTS RELATED TO REASSIGN FAILING IN CORE SUITE
34541613	BULKLOAD COMPLETES WITHOUT LOGS WHEN THERE IS A LEADING WHITESPACE IN THE CSV
34574897	ACC: OATB - MULTIPLE ISSUES RELATED TO ENCHANCE AOG 3.1 ZOOM AND TEXT SPACING
34577727	ACC: KEYBOARD- NOT ABLE TO HIGHLIGHT TOP 4 BUTTONS THROUGH KEYBOARD TAB KEY
34583233	ACC: KEYBOARD- MULTIPLE ISSUES WHILE USING KEYBOARD FOR BROWSING SCHEDULER
34583250	ACC: KEYBOARD- NOT ABLE TO CHOOSE ANY DROPDOWN ACTION USING KEYBOARD ON EDIT/VIEW JOB PAGE - JOB DETAILS
34594117	ACC: JAWS - MULTIPLE ISSUE APPREAR WHILE TESTING WITH JAWS
34619346	DESIGN CONSOLE IN WINDOWS IS NOT LAUNCHING AFTER APPLYING OCT'22 PATCH (34577841)

**Table 1-8 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.221004**

BUG	DESCRIPTION
34658707	FIX NOT WORKING FOR BUG 33747680 WITH LATEST CONTAINER IMAGE


## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220703

Applying this bundle patch resolves the issues described in [Table 1-9](#)

**Table 1-9 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220703**

BUG NUMBER	DESCRIPTION
31285681	THE ERROR POPUP "THE PASSWORD CHANGE OPERATION FAILED WHILE VALIDATING OLD PASS
32119840	CREATE USER WORKFLOW IS NOT TRIGGERED WHILE CREATING USER USING REST/SCIM API
32954733	DISCONNECTED ACCOUNT NOT PROVISIONED INTERMITTENTLY AFTER EVALUATE USER POL JOB
33216328	PUMA: IDA RULES VIOLATED COLUMN BLANKS OUT IN FIREFOX OR SAFARI BROWSERS
33247694	SCIM GROUPS/.SEARCH TOTALRESULTS IS FALSE
33445061	DUPLICATE ROLES APPEARING FOR SOME USERS IN USERS->ROLES
33451463	PUMA: EMPTY CUSTOM UDFS MARKED AS STRING "NULL" AFTER EXPORT/IMPORT
33461779	IAM-2050243 RAISED WHEN MODIFY USER ATTRIBUTE TRIGGERS ROLE/RULE EVALUATION
33504630	AFTER PATCH 29167604, CACHING OF USR_KEY FIXED IN 12.2.1.3, BUT NOT 12.2.1.4
33533162	OIM SERVER GOES TO WARNING STATE DUE TO HEAP SIZE GROWTH WHEN USER HAS MANY ADMIN ROLES
33539764	WHEN REQUEST IN INFORMATION REQUESTED STATE, REQUESTER CANNOT BE WITHDRAWN

**Table 1-9 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220703**

BUG NUMBER	DESCRIPTION
33541821	OIGOAMINTEGRATION.SH - ADDMISSINGOBJECTCLASSES DOES NOT ADD MISSING OBJECTCLASSES
	<div style="border: 1px solid #0070C0; padding: 10px; background-color: #E6F2FF;">  <b>Note:</b>                      For more details, check <a href="#">Adding Missing ObjectClasses With OID</a> for the workaround.                 </div>
33588973	A TIME LIMITATION OF MAXIMUM 6 MONTHS SHOULD BE ADDED ON THE PERIOD OF DELEGATIO
33656656	GROOVY TRANSFORMATION CAUSES TWO PROCESS TASKS TO BE RUN - 1ST BAD 2ND OK
33669502	OIM DISABLE REQUESTS SHOWING REQUEST COMPLETED, EVEN AFTER TASK FAILED
33790250	ROLE MEMBERSHIP END DATE ERROR MISLEADING
33889775	CANNOT RE-CREATE ROLE IN OIG 12C SSO ENVIRONMENT
33926014	MISSING FOREIGN KEY INDEXES AFTER UPGRADE TO OIM 12.2.1.4.X
33932731	CHANGEACCOUNTPASSWORD() API IS NOT WORKING WITH RACF TARGET WITH SPL CHARS PWD
33937973	OIG- ROLE CERTIFICATION ASSIGNMENT WITH PROXY SCENARIO
33945782	ENABLE USER REQUEST, ENABLES DELETED USER (DELETED TO ACTIVE)
33990557	ISSUE WITH 12C PROXY BASED FUNCTIONALITY
33997963	BULK LOAD UTILITY FAILS WITH "ORA-00907: MISSING RIGHT PARENTHESIS"

**Table 1-9 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220703**

BUG NUMBER	DESCRIPTION
33998355	DISC APP INSTANCE GOES TO PROVISIONED EVEN THOUGH NO LONGER IN AP
34028543	Fix for Bug 34028543
34030611	POLICY VIOLATION REMEDIATE OPTION IS GIVING ERROR "ENTITLEMENT KEY NULL NOT EXIST FOR USER KEY 11. COMMENTS : TESTING"
34035838	WHEN USERID REUSE CREATELDAPACCOUNTPOSTPROCESSHANDLER SEARCHKEYNOTUNIQUEEX ERROR
34049752	UI ROUNDS OFF THE CERTIFICATION CAMPAIGN TO 100 % COMPLETION WHEN IT IS AT 99.5%
34056111	FAILED TO RUN RETRY FAILED ORCHESTRATIONS SCHEDULED JOB
34089570	AFTER BUGFIX 34035838 THE SSOTARGET ACCOUNT IS LINKED VIA ORC_KEY TO OLD USER
34121706	SLOWNESS WHEN SELECTED ADMIN ROLE IN ORAGANIZATION MEMBERS PAGE
34130414	NO REQUESTID IS PRESENT IN CREATE USER RESPONSE OF CREATEUSER REST API
34150102	ORCLOGINTEGRATIONADMIN ADMIN ROLE IS NOT SCOPED TO ANY ORG BY DEFAULT
34176248	CERT_TASK_ACTION.ACTION_DATE IS NULL ON CERTIFICATION RE-ASSIGNMENT
34181427	NPE IS THROWN DURING THE EBS RECON JOB RUN
34266397	ENTITLEMENT DELETED DOES NOT MOVE ENTRY FROM ENT_LIST TO ENT_LIST_HIST

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220413

Applying this bundle patch resolves the issues described in [Table 1-10](#)

**Table 1-10 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220413**

BUG NUMBER	DESCRIPTION
25109611	PASSWORD CHANGE REQUEST FOR XELSYSADM SHOULD BE SYNCED WITH CSF

**Table 1-10 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220413**

<b>BUG NUMBER</b>	<b>DESCRIPTION</b>
30546850	AOB: ERROR THROWN WHILE TRYING TO AUTO DISCOVER WHILE EDITING THE APPLICATION
30757118	DIAG: PATCH_OIM_WLS OVER-WRITES LOG FILE OF PREVIOUS BPS / ATTEMPTS
31005588	EVALUATE USER POLICIES JOB DELETES ENT_ASSIGN TABLE RECORDS AND RECREATES THEM ON USER EVALUATION
31159979	LOCK/UNLOCK USER THROWS JAVA.LANG.NULLPOINTEREXCEPTION: UICOMPONENT IS NULL
31873080	OIM DBUM USER DELETE RECON REVOKED TARGET ACCOUNT WITH EXPIRED & LOCKED STATUS
32539201	UPDATE ACTION SCRIPT DO NOT PASS THE REQUIRED ATTRIBUTES
32666165	ADMIN ROLE ACCESS POLICY VIEWER ALLOWS USER TO START CHANGING
32720089	AOB:TARGET ATTRIBUTE NAME VALUES GIVEN IN SCHEMA MAPPINGS ARE NOT GETTING SAVED
32986671	SELF-SERVICE CONSOLE CRASHES WITH "AN UNRESOLVABLE ERROR HAS OCCURRED. PLEASE CONTACT YOUR ADMINISTRATOR FOR MORE INFORMATION." WHEN TOGGLING THE "CHANGE PASSWORD SECTION"
33129060	ACCESS POLICY SHOULD NOT HONOR THE DELETED ENTITLEMENTS MAPPED TO IT FOR ROLE BASED PROVISIONING
33171832	PUMA: IDENTITY AUDIT VIOLATION COMPLETED BY AN ADMIN DOES NOT RESULT IN COMPLETION
33171971	PUMA: TARGET ACCOUNT IS EMPTY IN REMEDIATION APPROVAL TASKS
33275507	ACCOUNT END DATE CAN BE SET HIGHER THEN THE USER END DATE
33279653	ISSUE WITH THE CREATE USER APPROVAL WORKFLOW-DUPLICATE REQUEST
33284404	UPDATED TASKS ARE FAILING AFTER APPLYING IDM SBP
33351565	FLATFILE ENT RECON DISPLAY NAMES WITH SPECIAL CHARACTERS INCORRECTLY LOADED
33399996	OIM CLONE CONNECTOR SHOULD REPLACE ALL OCCURRENCES OF OLD NAME

**Table 1-10 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220413**

<b>BUG NUMBER</b>	<b>DESCRIPTION</b>
33400563	BENEFICIARYLOGINID AND REQUESTERLOGINID IS STILL NOT CONVERTED INTO POLISH LOCAL
33412499	ROLE SYNC MISSING WHEN LDAPSYNC IS REPLACED WITH CONNECTORS
33449308	NEED A SERVICE OR API THAT CAN VALIDATE ANSWER FOR USER/LOGIN QUESTIONS
33472511	UPG - XELSYSADM PASSWORD IN NOT IN SYNC WITH CSF KEYSTORE
33487303	ATPS: BULK LOAD UTILITY IS NOT WORKING WITH ATPS SETUP
33494174	VIEW ANALYTICS FOR ROLE CHANGES DOES NOT WORK IN POLISH LANGUAGE
33495897	RESOURCE HISTORY IS NOT DISPLAYED COMPLETELY AFTER PATCH 30119475
33505020	PUMA: UI REMOVING RULE BASED ROLE MEMBERSHIPS UPON INITIATION OF DELAY DELETION
33505355	POST OCT SPB "OBPASSWORDCHANGE" FLAG NOT GETTING RESET BUG 33393102 CONTINUES...
33536274	Fix for Bug 33536274
33537410	PUMA: MANAGER UNABLE TO VIEW COMPLETE/EXPIRED CERTS WHEN A PROXY IS ASSIGNED
33584027	USERS SHOWING UP TWICE IN LOG FILE IN PROXY RELATED ERROR MESSAGE
33586166	REQUEST.GETAPPROVALDATA() FAILS IN 12C, SAME CODE WORKS IN 11G
33587015	PATCH_OIM_WLS.SH SCRIPT HANG AFTER APPLIED THE IDM_SPB_12.2.1.4.211014
33625845	DISABLE/DELETE SCHEDULED JOB NOW REMOVES ROLES FROM DISABLED USERS IN 12C
33644344	RECONCILED ENTITLEMENTS SHOULD BE HANDLED VIA ACCESS POLICY USING APH
33652287	PUMA: EXPORT/IMPORT OF ACCESS POLICIES DOES NOT MIGRATE CHECK BOX VALUE
33652306	PUMA: SYSTEM PROPERTIES IMPORT FROM ONE ENV TO THE OTHER IS NOT WORKING
33653708	FORM IS CORRUPTING AFTER AOB TEMPLATE/SCHEMA CHANGES

**Table 1-10 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220413**

<b>BUG NUMBER</b>	<b>DESCRIPTION</b>
33655238	GETTING NO ENUM CONSTANT ERROR FOR ORGANIZATION TYPE AFTER APPLYING OIM BUNDLE PATCH 12.2.1.4.211010
33673956	APP INSTANCE CERTIFICATION PERFORMANCE ISSUE
33676752	ER 32288237 REPLACED SSO PASSWORD HANDLER AND INTRODUCED PROB WITH EXPIRY DATE
33684726	USR_PWD_CREATION_DATE NULL CREATING NEW USER W/O PASSWORD
33692276	USER DETAIL SHOWS EMPTY IN USER CERTIFICATION WHILE MODIFYING [ROWS DISPLAYED]
33694284	WRONG WORDING ON CONFIRMATION DIALOG WHEN CLAIMING OPEN CERTIFICATIONS
33697050	NEW PROVISIONING API TO RETURN THE LIST OF USERS PROVISIONED WITH SPECIFIED APP INSTANCE
33711997	AOB: AUTHORITATIVE APP ATTRIBUTE NAME VALUES GIVEN IN SCHEMA MAPPINGS ARE NOT GE
33735241	Fix for Bug 33735241
33738824	USERMANAGER.DELETE RETURNS USERMANAGERRESULT WITH NULL STATUS
33745642	RECON DATA PURGE IS COMPLETED WITH ERROR(S) ORA-06502 AT OIM_SP_RECON_ARCHPURGE
33768054	CHILD FORM IS CORRUPTING AFTER AOB TEMPLATE/SCHEMA CHANGES
33780050	INDIRECT ROLES NOT POPULATED IN OIMASSERTIONLOGINMODULE AND OIMAUTHLOGINMODULE
33791086	ROLE NOT ADDED TO TABLE PENDING_ROLE_GRANTS WHEN END DATE SET BY APPROVER
33793732	BROKEN HYPERLINK IN TRACK REQUESTS PAGE : FIREFOX
33796313	ORG SEARCH ERROR WHEN THERE IS A LARGE AMOUNT OF ORGS
33862402	NO OPTION TO SELECT THE DISPLAY NAME OF THE ROLE UNDER MANAGE --> USERS -->ROLES
33909965	REGRESSION OF BUG 33279653



**Table 1-10 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220413**

BUG NUMBER	DESCRIPTION
33934140	NOSUCHMETHODERROR ACCOUNTHANDLERUTIL.CREATEUSER IN SEEDOIMDATAINTARGETLDAPIMPL
33946147	OIG-CONFIG-UTILITY.SH IS NOT RUNNING IN APRIL BP, IT IS THROWING ERRORS WHILE RUNNING THE UTILITY
33946292	CLASSPATH.SH IN APRIL BP IS STILL REFERING THE OLD JAR REFERENCES
33989996	INTEROP: WHEN WE SET PASSWORD EXPIRY DATE TO BLANK AND TRY TO RESET THE PASSWORD IT IS STILL NOT WORKING IN PS4 + APRIL BP (33929963)
34011734	BENEFICIARYLOGINID AND REQUESTERLOGINID IS STILL NOT CONVERTED INTO POLISH LOCAL
34035584	DESIGN CONSOLE FORMS NOT OPENING IN LATEST BP
34062173	IN WINDOWS, DESIGN CONSOLE ADAPTER FACTORY FORM IS NOT OPENING IN LATEST BP, IN LOGS IT IS THROWING ERROR '!NOCLASSDEFFOUNDEERROR

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220115

Applying this bundle patch resolves the issues described in [Table 1-11](#)

**Table 1-11 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220115**

Bug	Bug Abstract
30200580	DIAG: ORACLE.IAM.APPLICATION.IMPL ERROR CONSUMES STACK ON TRANSFORMATION
31155251	REQUESTS GETS FAILED IN IDENTITY MANAGER
31895248	REGRESSION BUG 29750388 : SEARCH IN "REQUEST FOR OTHERS" IS NOT WORKING
32331154	NON REQUESTABLE ROLES DOESN'T APPEAR IN THE USER CERTIFICATION
32390472	OIG PRE-UPGRADE REPORTS INCORRECTLY IDENTIFIES 19C DB AS UNSUPPORTED VERSION FOR OIM 11GR2PS3 WHILE UPGRADING TO 12C

**Table 1-11 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220115**

<b>Bug</b>	<b>Bug Abstract</b>
32492120	PROVISIONING TASKS - OPEN TASKS - EDIT FORM RENDERS DATES INCORRECTLY USING 2 DIGIT YY
32540331	SEARCH BUTTON NOT EASILY VISIBLE IN THE SYSADMIN LOOKUP UI
32760053	OIM DN GENERATION LOGIC FAILS TO GENERATE DN USING ESCAPE CHARS
33060231	BULK REVOKE ENTITLEMENTS REQUEST SHOWS JBO ERRORS, INCORRECT ACCOUNTS
33066536	OIM TRUSTERD DELETE RECON UNEXPECTED TO DELETE OIM USERS
33086686	EXTEND FIX OF BUG 31038511 TO ALL TYPE OF CERTIFICATIONS - SEE EH 27284033
33113521	PROXY USER WRONG MESSAGE
33171625	CHALLENGE QUESTIONS GIVES ERROR WHEN USER DEFINED IS SELECETD IN PASSWORD POLICY
33190066	12.2.1.4.0 OIM: ATPSCERT: ATP S: RCU PRE-REQ FAIL FOR OIM SCHEMA WITH ATP S DB
33246155	PUMA: PREVENTATIVE SCAN NOT WORKING WHEN A ROLE IS ALREADY REQUESTED
33319198	DELETED USER ACCOUNT CLEAN UP JOB DOESN'T WORK IF DUPLICATE ACCOUNTS EXISTS
33350167	ANYTIME A WORKFLOW IS ACCESSED IN THE OIG UI WE GET SERIALIZABLE ERRORS
33379590	CLASSCASTEXCEPTION: INTEGER TO STRING WITH INTEGER UDF WITH IN MEMBERSHIP RULE
33404573	12.2.1.4.0 OIM:FMWATPS ATPSCERT HOT: Pop-ups seen in RCU log-Error creating PL/SQL Object's: OIM_SP_MANAGEENTITLEMENT,OIU_UPD ATE
33407956	Fix for Bug 33407956
33417218	OIG 12CPS4 OCT BP , ROLLBACK REAPPLY IS CHANGING THE STATUS OF CERTIFICATION TO STALE
33419121	MODIFY ADF CACHE SIZE CONFIGURATION FOR TABS

**Table 1-11 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.220115**

Bug	Bug Abstract
33428494	UPDATES TO USER (USR) NOT PROPAGATED TO ACCOUNTS IN 'PROVISIONING' STATUS
33440181	JOB DELETED USER ACCOUNT CLEAN UP JOB FAILS IF ANY UD TABLE CONTAINES ONLY PK AND FK COLUMNS
33449049	USER CREATION FAILS IN OIM AD SETUP WITH PATCH 33429084
33452123	USER ROLE GOT REVOKED, FOR A VALID 'USER MEMBERSHIP RULE'
33462000	JPS-CONFIG.XML CONTAINS LEFT OVER OAM 11G INFO CAUSING ISSUES WITH 12C
33465669	NPE ERROR WHILE STARTING OIM AFTER UA IF ORACLE_HOME IS INVALID
33471784	BOOTSTRAP PROCESS FAILS DURING DEPLOYSOACOMPOSITES DUE TO CONNECTION NOT AVAILABLE
33474286	VALIDATION OF OPSS VERSION NEEDED IN PRE-UPGRADE REPORT
33629042	USER CERTIFICATION CREATION WITH OPTION "RETAIN EXPIRY DATE" GIVES NULLPOINTEREXCEPTION IN SCHEDULED JOB

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.211010

Applying this bundle patch resolves the issues described in [Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.211010](#)

**Table 1-12 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.211010**

Bug Number	Description
22780597	UPDATEROLEGRANT DOES NOT HANDLE THE STARTDATE / ENDDATE ATTRIBUTES
27432438	ALL THE FIELD LENGTHS IN THE USR TABLE SHOULD MATCH WITH THE CERT_USER TABLE
28078904	PREVENT APPLICATION INSTANCES REVOKE WHEN ENTITLEMENTS OUTSIDE ROLE EXIST
28545612	ENT_ASSIGN_HIST DOESN'T SAY HOW THE USER ACCESS IS PROVISIONED
28882181	ARM_AUD TABLE NOT UPDATED DURING ADMIN ROLE ASSIGNMENT

**Table 1-12 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.211010**

<b>Bug Number</b>	<b>Description</b>
29167604	SERVER CACHING AUTH BETWEEN SELFREGISTRATION AND CREATE USERS REST CALLS
29950705	ALL ACCESS POLICY ENTITLEMENT REQUEST SHOULD HAVE REQUESTER DETAILS SIMILAR TO OTHER REQUESTS
30043034	OIM USER FORM DATE UDF ATTRIBUTE NOT FUNCTIONING PROPERLY IN SSO ENV
31038511	CERTIFICATION REASSIGNED OR DELEGATED RESETS TIME SEE EH 27284033
31140352	ADD FEATURE FOR ARCHIVING AND PARTITIONING ENT_ASSIGN_HIST TABLE
31464255	SOD VALIDATION AGAINST ENTITLEMENTS WHICH ARE REQUESTED
31771784	IDENTITY AUDIT RULE DESCRIPTION IS LIMITED TO 256 CHARS
31784882	CUSTOM TASKFLOW MESSAGE OVERWRITTEN BY DEFAULT MESSAGE
31786287	BULK OPS IS MASKING PASSWORD CHANGE SEE BUG 31687980)
31934316	MANDATORY CERTIFICATION COMMENTS FOR ALL CERT LINE ITEMS
31940390	PUMA: ENTS ASSIGNED OUTSIDE OF ACCESS POL ARE LEFT STRANDED AFTER ROLE REMOVAL
31995394	OIM 12C PS3 EXPORT/IMPORT TOOL NOT WORKING PROPERLY
32258285	PROVISIONING OPEN TASKS SEARCH DOES NOT GET THE TASK STATUS TRANSLATED TO POLISH
32305321	CLARIFICATIONS ON USAGE OF THE LOCAL TEMPLATE ADD ATTACHMENT API.
32324514	INTERFACE PROVISIONINGSERVICE.GETACCOUNTSPROVISIONEDTOUSER THROWS NPE
32379310	CERT EVENT LISTENER TRIGGERED FOR CERTIFIED USERS EVEN WHEN NO CHANGES ARE MADE WHEN CERT OPTION PREVENT SELF CERTIFICATION ENABLED
32416424	PUMA: DISPLAY ACCOUNT TYPE IN OIM ACCOUNT CHOOSER POPUP
32488483	SERVICE ACCOUNT CHECKBOX IS NOT CHECKED WHEN REQUEST MADE VIA REST API

**Table 1-12 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.211010**

<b>Bug Number</b>	<b>Description</b>
32523570	ACTION COMMENTS DUPLICATED FOR REJECT,ESCALATE OPERATIONS DURING APPROVALS THROUGH REST API
32542298	SSOTRUSTED-FOR-SSOTARGET ORGANIZATION NAME RECON FIELD SCHEMA PROPERTY ENABLE / DISABLE NOT HONORED
32545659	BUG 30516224 CONTINUED -- NEED SUPPORT FOR PERIOD CHARACTER
32567175	REVIEWER "SEARCH FOR A ROLE" NOT WORK
32586438	PROCESS TRIGGER NOT FIRING FOR END DATE
32619046	AOB DBAT CONNECTOR LOCKING THE TARGET SYSTEM USER ACCOUNT
32644878	HOW TO CONFIGURE OHS FOR CERTAIN LOCATIONS NOT DOCUMENTED IN THE HA GUIDE?
32670128	ADDING ADDITIONAL ENTITLEMENTS TO AP DOESN'T RE-EVALUATE AND ADD TO USER
32682939	PUMA: MANAGER WITH ACTIVE PROXY DOES NOT GET ACTIONABLE EMAIL ABOUT APPROVAL ASSIGNMENT
32683903	DIAGNOSIBILITY : NOT ABLE TO EDIT IT RESOURCE
32710101	ISSUE AUDIT MESSAGE TASK DOES NOT PROCESS AUDIT DATA FOR FEW USERS
32710741	SSOTRUSTEDFORSSOTARGET RECON EVENT FAILS WITH INVALID MANAGERLOGIN ERROR
32716632	UNABLE TO CHANGE THE LOOKUP NAME FOR A CLONED CONNECTOR
32717850	DISABLED USERS SHOULD NOT BE EVALUATED BY ACCESS POLICY
32726134	DIAG:CERTIFICATIONCOMPLETIONUPDATE RUNNABLE.RUN PRINTS "NULL" INSTEAD OF ERROR
32739740	CANNOT SORT OPERATIONS IN WORKFLOW AFTER APPLYING PATCH 31797847
32747711	OAM / OIM AD MODIFIED USER IS RECONCILED LIKE {BASE=DISPLAYNAME}
32764420	NEED WORKING EXAMPLE OF SCHEDULERSERVICE.CREATESCHEDULE DTASK(ST)

**Table 1-12 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.211010**

<b>Bug Number</b>	<b>Description</b>
32769357	POST PROCESS CODE IS NOT GETTING INVOKED WHEN USER UNLOCK IS DONE ON UI.
32827236	SCREEN PACKAGE THAT IS REQUIRED FOR OIM-OAM INTEGRATION IS DEPRECATED IN RHEL8
32830574	SCRIPT UPDATE_OIM_AUTHENTICATE_PROVIDER FAILS IF THE DOMAINS FOLDER NOT PRESENT
32843595	ORGANIZATION TYPE/STATUS IN MANAGE - APPLICATION AREA PAGES NOT TRANSLATED TO BROWSER LOCAL
32880383	SUNSET JOB UNABLE TO REMOVE ACCESS IF THE ENTITLEMENT REQUEST IS APPROVED AFTER
32902773	IAM-2050243 FAILED WHILE DISABLING USER WHEN WORKFLOWS ENABLED IS FALSE AFTER BP
32903652	UNINSTALLCONNECTOR DELETE ONE RESOURCEOBJECT RESULT IN ALL ITRESOURCE OF SAME CONNECTOR TYPE REMOVED
32939218	NULL DATES ARE STORED AS 01-JAN-1970 (JAVA EPOCH) IN AUDIT TABLES
32977106	PASSWORD VALIDATION FAILS IF IT HAS LEADING/TRAILING SPACES UNDER MY INFO PAGE
32998646	USERMANAGER.DELETE(USER_LOGIN,TRUE) FAILS WITH INVALID NUMBER ERROR
33000675	DIAG: NEED DIAGNOSTIC PATCH IN ACCESSPOLICYSERVICEIMPL.UPDATEACCESSPOLICY/PROCESSWITHOUTRESULT
33005552	NPE IN DELAYED DELETE USER WITH JOB HISTORY JOB USERAUDITHANDLER
33018171	ISSUE WITH ORGANIZATION BULK LOAD WHEN SPECIAL CHARACTER / ARE PRESENT
33066442	DELEGATED CERTIFICATIONS NOT FILLING IN CERT_TASK_ACTION.ACTION_DATE
33069593	FORGOT PASSWORD RESET FAILS WITH VAGUE GUI ERROR MESSAGES
33069995	"COMMON NAME" NOT POPULATED DURING NON-SSO TRUSTED RECON IN 12CPS4 SSO ENV
33088894	REQUEST JUSTIFICATION FIELD NEEDS TO BE IN LOCAL LANGUAGE

**Table 1-12 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.211010**

<b>Bug Number</b>	<b>Description</b>
33091106	ERROR ON "OFFLINE DATA PURGE FRAMEWORK" UTILITY IN OIG 12CPS4
33097801	REST API FAILS TO COMPLETE CERTIFICATION WITHOUT PASSWORD IN PS4
33102762	AOB: FLAT FILE TARGET RECON JOB NOT WORKING CORRECTLY WITH INSTANCE APP
33103959	DUPLICATE TASK DEFINITION IN TASK.XML AFTER UPGRADE FROM 12.2.1.3 TO 12.2.1.4
33112078	EMAIL NOTIFICATION ATTACHED TO ASSIGNMENT TAB OF PROCESS TASK IS NOT TRIGGERING
33119876	NEED TO SHOW APPLICATION INSTANCE DISPLAY NAME IN THE ERROR MESSAGE SHOWN IN UI (AS PER BUG 30952309)
33120542	PREUPGRADEUTILITY IS FAILING WITH COMPATABLE_PARAMETER_CHECK ERROR
33129135	PROMPTING FOR PASSWORD UPDATE WHILE UPDATING THE BASIC INFO IN MY INFO TAB
33137945	TESTCASE FAILURES IN ACCESS POLICY MODULE AFTER THE FIX 31995394
33150481	IN AN SSO INTEG OIM-OAM ENV, UPDATING THE USR_COMMON_NAME NULLS USR_LDAP_GUID
33160341	DOES NOT BEGIN WITH OPERATOR IN AUDIT RULE DOES NOT WORK FOR BLANK VALUES
33165095	ORGANIZATION SEARCH ERROR IN OIM 12.2.1.4.210428
33165837	SUBMIT REQUESTS REST API IS ALWAYS SUBMITTING THE REQUEST FOR ASSIGN ROLE ONLY
33174111	UNABLE TO CLOSE RECON EVENTS AFTER RUNNING OFFLINE DATA PURGE JOB USING API
33182890	ORCHESTRATION OFFLINE PURGE FOR RETENTION PERIOD 365 DAYS IS NOT WORKING
33214891	USER CREATION FAILS IN OIM 12C WHEN REQUESTENTITY API IS USED
33225499	DISABLED USERS WITH PAST END DATE NOT GETTING USR_AUTOMATICALLY_DELETE_ON SET

**Table 1-12 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.211010**

Bug Number	Description
33243897	AOB: SETTINGS TAB NOT DISPLAYING RECON JOBS WHILE CREATING INSTANCE APPLICATION OF AUTH APP OR EDITING AUTH APP OR ITS INSTANCE APP
33255209	SOA WORKFLOW IS ACCESSED WHEN WORKFLOWS ENABLED IS FALSE UNDER PATCH 32902773
33275455	OIM DELETE USER OPTION IS FAILING AFTER BP 210708 WITH WORKFLOW ENABLE = FALSE
33276969	POST UPGRADE 12CPS4 OIM SERVERS GOING TO WARNING STATE AND AUTO-HEALED
33279285	THE OIG.BENEFICIARYMANAGERAPPROVALWORKFLOWS SYSTEM PROPERTY IS MISSING IN LATEST SHIPHOME
33292833	REST: THE OPERATION PARAMTER MUST BE OPTIONAL IN THE ROLE REQUEST
33305314	CUSTOM EMAIL NOTIFICATIONS GET NO PARAMETER WHEN TEMPLATE TYPE SET TO TEXT/PLAIN
33321617	UNABLE TO CREATE ROLE WHEN ENFORCESINGLEACCOUNTPERAPPLICATIONREQUEST IS SET TO TRUE
33404123	SYSTEM PROPERTY WORKFLOW ENABLE = FALSE IS PARTIALLY CASE SENSITIVE

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210708

Applying this bundle patch resolves the issues described in [Table 1-13](#).


**Table 1-13 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210708**

Bug Number	Description
28433832	PROCESS TASKS ARE NOT TRIGGERED WHEN THERE ARE DUPLICATE ENTRIES IN LOOKUP
30516224	IDENTITY AUDIT RULES CONTAINING SPECIAL CHARS DO NOT RAISE POL. VIOLATION
30641393	REST USER SEARCH ON DATE ATTRIBUTE DOES NOT FILTER ON TIMEZONE



**Table 1-13 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210708**

Bug Number	Description
30952309	ENTITLEMENT REQUEST STUCK IN REQUEST AWAITING DEPENDENT REQUEST COMPLETION
31724255	Fix for Bug 31724255
31781952	OIM_SP_CERT_ARCHPURGE STORED PROCEDURE INCORRECTLY ARCHIVING CERTS_USER ROW
32043090	CATALOG REQUEST PROFILES NOT DISPLAYING VALUES DURING CATALOG REQUEST
32288237	PERFORMANCE ISSUE WITH PASSWORD RESET IN SSO ENVIRONMENT (12C)
32306365	PUMA: ROLES ARE REMOVED WHEN USERS ARE SOFT DELETED USING DELAY DELETE
32408854	PUMA: TEST CONNECTION FAILS FOR DBUM INSTANCE
32461462	OIM API NOT EXPOSING METHOD TO DECRYPT ENCRYPTED UDF
32635254	OIM CN GENERATION LOGIC FAILS TO GENERATE UNIQUE CN USING SPECIAL CHARS
32680717	PUMA: LDAP USER SEARCH DELETE RECON BEHAVE DIFFERENTLY THAN USER
32704620	REVOKING ROLE VIA CERTIFICATION PROCESS IS NOT GENERATING REQUEST TO REMOVE ROLE
32705847	ATTRIBUTE VALUES IS NOT VISIBLE IN PENDING VIOLATION TASK VIEW

 **Note:**

For details, see [Improving Reset Password Performance on AD Integration.](#)

**Table 1-13 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210708**

Bug Number	Description
32739454	PRE-UPGRADE REPORTS CONTAINS UNWANTED OIM12CPS3 BP02 INFORMATION
32742292	ONEHOP IS THROWING NPE WHILE UPGRADING ORACLE IDENTITY MANAGER SCHEMAS USING THE UPGRADE ASSISTANT STEP
32763040	OUTOFMEMORY EXCEPTION WHILE ADDING MEMBERS TO ADMIN ROLE
32806846	MULTIPLE MANUAL REVOKE ENTITLEMENT TASKS GENERATED FOR ACCESS POLICY DISABLE
32881765	RESOURCE HISTORY NOT LOADING WITH LOAD BALANCER URL IN OIG 12CPS4 CLUSTER ENV
32984575	UNABLE TO CREATE THE APPLICATION INSTANCE FOR DBUM CONNECTOR

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428

Applying this bundle patch resolves the issues described in [Table 1-14](#).

**Table 1-14 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428**

Bug Number	Description
16755363	IDMUPG:PS5-PS6:OIM UPGRADE SCRIPT THROWS NPE AFTER APPLYING PATCH 16609934
25386874	ER: NEED CONSISTENCY IN INTEGRATED OIM AND OAM FOR LANGUAGE PREFERENCE
28819255	CREATION OF THOUSANDS OF UNEXPLAINED UPDATE TASKS
29973037	OIM 11.1.2.3.X AUDIT - UPA TABLE IS NOT RECORDING DELTA INFORMATION PROPERLY
30013863	CAN'T CHANGE/UPDATE ATTRIBUTES ON AOB SCHEMA
30054791	ADMIN ROLE ACCESS POLICY VIEWER ALLOWS USER TO START CHANGING
30107277	CONNECTOR UNINSTALLATION FROM AOB DELETES ADAPTERS AS WELL.
30110645	AOB: REMOVAL OF A CHILD FORM REMOVES TASKS FROM OTHER APPLICATIONS

**Table 1-14 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428**

<b>Bug Number</b>	<b>Description</b>
30141533	CREATE ADMIN ROLE ERROR
30155470	OIG 12.2.1.3.190624 REST API REQUESTS RETURNING ERROR WITH CUSTOM COMPOSITE
30201821	[ROLECERT]: PROXY USER SHOULD BE CERTIFIED BY THE CERTIFIER'S MANAGER
30265046	OIG SUBMIT BUTTON OF IDENTITY FIRST LOGIN PAGE SHOULD BE THE LAST READING ORDER
30272992	FEW REQUESTS MOVED TO FAILED STATUS WITH AUTO APPROVAL WORKFLOW
30465556	CERTIFICATION FAILS IF CATEGORY_COUNT_OPTION IS TO 1 OR 0
30581388	ADVANCED SEARCH WITH CHECKBOXES LEADS TO ERROR: JAVA.LANG.BOOLEAN CANNOT BE CAST
30586440	NPE ERRORS WHILE CREATE ADMIN ROLE ERROR
30628628	PROCESS PENDING ROLE GRANTS WHEN ROLE IS DELETED
30674852	ROLE CERTIFICATION FAILS USING ACCESS POLICY WITH MULTIPLE APPLICATION INSTANCES WITH THE SAME ENDPOINT
30719311	PASSWORD POLICY RULE "MINIMUM PASSWORD AGE (DAYS)" IS NOT HIGHLIGHTED
30773475	OIM ORGANIZATION GETTING DISABLED INTERMITTENTLY IN PRODUCTION .
30844901	PRE-POPULATING ATTRIBUTES NOT WORKING FOR USERS IMPORTED VIA BULK LOAD UTILITY
30901352	SCIM DOES NOT RETURN CORRECT USERS WHEN USING ENDPOINT /IAM/ GOVERNANCE/SCIM/V1/U
30908422	ROLE CATEGORY CONSIDERED DUPLICATE IN UI
31060268	OIG12C: ALLOWS YOU TO UPDATE AN EXISTING AP AND ADD 2ND APP FOR SAME RO
31342188	USER IS NOT CREATING IN LDAP POST SOA APPROVAL
31353225	FILTER IN SSO FULL AND INCREMENTAL RECON JOB DOES NOT WORK.

**Table 1-14 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428**

<b>Bug Number</b>	<b>Description</b>
31397729	DIAG:QUARTZTRIGGERLISTENER.TRIGGERMISFIRED DOES NOT DISPLAY TRIGGER NAME
31467891	ACCESS POLICY EVALUATION INITIATES PROCESS TASKS FOR NULL CHECKBOX VALUES
31525878	OIM 12C SSO USER TARGET RECON OVERWRITING "ORGANIZATION NAME" VALUE WITH "XELLERATE USERS" DEFAULT VALUE
31576436	EVENTFAILEDEXCEPTION AND REQUESTSERVICEEXCEPTION IS SEEN IN THE LOG AFTER THE REQUEST STATUS TASK IS EXPIRED
31592160	TRACK: OIM DATA PURGE JOB FAILS WHILE PURGING THE RECON DATA FROM RA TABLES
31626677	OIMDBPLUGIN NOT INTERPRETING ESCAPED PARENTHESIS IN GROUP NAMES IN LDAP QUERY CORRECTLY
31634715	OIM 12.2.1.4.0:OIG RCU SQL MODIFICATIONS REQUIRED TO SUPPORT OIG DB ON ATP-D AND ATP-S
31656655	MISSING REQUESTER ID LEADS TO REQUEST FAIL
31637673	VIEW FORM OR EDIT FORM IS BLANK FROM OPEN TASKS PAGE
31683884	"FOR REPORTEES" OPTION IS NOT TRANSLATED TO BROWSER LANGUAGE
31732078	IAM-3054101 : THE LOGGED-IN USER DOES NOT HAVE VIEWSEARCHENTITY PERMISSION
31748217	ADF: ACCESS POLICY APPLICATION FORM FORCING TO ENTER AS FIRST VALUE THE FIELD MARKED AS ACCOUNT DISCRIMINATOR BEFORE ANY LOOKUP
31765258	UPDATING CERTIFICATION LINE ITEM USING REST RETURN HTTP ERROR 500 "GETSINGLERESULT() DID NOT RETRIEVE ANY ENTITIES."
31786528	POST PROCESS EVENT HANDLER NOT TRIGGERING ADD ROLE TO USER TASK ON SSO TARGET
31821244	ADDING ENTITLEMENT TO ACCESS POLICY AND EVALUATING TRIGGERS UPDATE TO PROC FORM.

**Table 1-14 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428**

<b>Bug Number</b>	<b>Description</b>
31828240	PASSWORD CHANGED ON AD IS NOT PROPOGATING TO OTHER TARGET USING AD PWD SYNC
31838518	AUTOMATICALLY UNLOCK USER SCHEDULE JOB RESETS OBLOGINTRYCOUNT BUT NOT OBLOCKEDON
31883989	ADD SUPPORT FOR ONE-HOP UPGRADE FROM 11GR2PS3 TO 12CPS4
31903352	OIM HANDLING OF DISABLED USERS IN WORKFLOWS
31916340	LDAPCONTAINERRULES.XML NOT HONORING CREATE AND MODIFY OPERATIONS MOVING USER BACK TO DEFAULT OU
31922997	PUMA:UNABLE TO PROVISION/REVOKE ENTITLEMENT FROM FLAT FILE DISCONNECTED APP
31928115	SSO INCREMENTAL RECON CAUSES OBPASSWORDEXPIRYDATE TO DECREASE BY ONE DAY
31936434	HTTP 403 WHEN EDITING AN IT RESOURCE OR INSTALL A CONNECTOR
31941035	EXCEPTIONS ARE LOGGED DURING EXECUTION OF SCRIPT OIMBULKLOAD FOR AOB
31944823	CREATE INSTANCE FROM ACTION MENU FOR FLAT FILLER CONNECTOR CREATES APP WITH APP_INSTANCE_IS_SOFT_DELETE SET TO 1
31984036	CANNOT DISABLE OBJECT INSTANCE AS IT IS ALREADY DISABLED
31988157	REJECTED TASK ASSIGNED DATE CHANGES IF TASK IS ASSIGNED TO USER OR GROUP
31988511	REQUEST ID AFTER BEING APPROVED IS CREATED AGAIN UNDER PENDING APPROVAL
32012695	12C ACCOUNTS BULK LOAD FROM DB TO AOB APPINST FAILS WITH: JAVA.LANG.REFLECT.INVOCATIONTARGET EXCEPTION
32016431	UNABLE TO CHANGE FLAT FILE DURING FLAT FILE APPLICATION INSTANCE CREATION

**Table 1-14 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428**

<b>Bug Number</b>	<b>Description</b>
32018230	DISAPPEARING REPORTS IN BI PUBLISHER - ONLY IDENTITY AUDIT REPORTS SHOW WHEN UI
32065363	PREVENT SELF CERTIFICATION IS NOT WORKING ON REASSIGNMENT OF ENT TYPE CERT
32086855	CERTIFICATION ROLE POLICY TAB ENTITLEMENT URL SHOW NO ENTITLEMENT DETAILS
32119749	BPEL TASK MAPPING GET ERASED WHEN THE COMPOSITE IS INVOKED
32178264	"BULK LOAD POST PROCESS" JOB SETTING DIFFERENT PWDS FOR OIM USER -VS- SSOTARGET
32180926	SOD CHECK NOT REQUIRED FOR OIM ROLES
32285418	TRACK REQUEST FOR REPORTEES NOT TRANSLATED TO POLISH
32307183	12C PS4 UPG DOESN'T UPDATE OIM-CONFIG.XML OR WORKFLOWS WITH VERSION6 DEFAULT COMPOSITES
32322591	AUTO-LOGIN FUNCTIONALITY NOT WORKING FOR OIM OAM INTEGRATED ENVIRONMENT
32364874	"TEST CONNECTION" FAILS WHEN OIM UI IS LAUNCHED WITH NON .COM OR .EDU URL
32386512	PRE-UPGRADE REPORT SHOWS "OBSELETE" REPORTS NO LONGER REQUIRED.
32393962	SSOTARGET PROVISIONING TRANSFORMATION SCRIPT TRUNCATING DATE CAUSING INCONSISTENCY BETWEEN USR_PWD_EXPIRE_DATE AND OBPASSWORDEXPIRYDATE
32400979	CERTIFYING ACCESS POLICY ATTACHED TO ROLE VIA REST THROWS JAVA.LANG.NULLPOINTEREXCEPTION HTTP ERROR CODE 500
32429894	PROB IN SAVING "ORGANIZATION NAME" AS RECONCILIATION RULE UNDER AD GROUP IN DC
32485920	CERTIFICATION TASK ASSIGNED ONLY TO PROXY OF MANAGER OF MANAGER DISABLED BUT NOT TO MANAGER OF MANAGER DISABLED
32497804	RESOURCE HISTORY - DATE ASSIGNED FIELD SHOWS IN GMT TIMEZONE

**Table 1-14 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210428**

Bug Number	Description
32513700	INCONSISTENCY DATE FORMAT BETWEEN TRACK REQUESTS AND REQUEST DETAILS FOR REQUESTED DATE FIELD
32527571	WRONG KEY WHEN FETCH THE ERROR MESSAGE TRIGGERS MISSINGRESOURCEEXCEPTION
32534109	CAN'T CHANGE/UPDATE ATTRIBUTES ON AOB SCHEMA
32535086	ORGANIZATION SEARCH IS NOT WORKING FOR END USER OTHER THAN XELSYSADM
32549885	BUG IN ACCESSPOLICYSERVICE API, FUNCTION GETACCESSPOLICY LIMIT TO 1024
32582603	ROLE CERTIFICATION COMPLETION THROWS EXCEPTION WHEN USING ACCESS POLICY WITH MULTIPLE APP INSTANCES WITH THE SAME ENDPOINT
32631765	DATE ASSIGNED COLUMN ONLY THE DATE IS DISPLAYED, TIMESTAMP MISSING

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210112

Applying the bundle patch resolves the issues described in [Table 1-15](#).

**Table 1-15 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210112**

Bug Number	Description
25790911	JAVA SCHEDULERSERVICE:GETLASTHISTORYOFJOB API CAUSING OUT OF SEQUENCE ISSUES WITH RAC DB
27511207	ACCOUNT END-DATE IS NOT CLEARED POST ENABLING THE ACCOUNT
28025965	LIBRARIES (.JAR)FOR MANAGED BEANS AND TASK FLOWS ARE MISSING IN 12C
28361656	EMPEMPLOYMENT.STARTDATE INVALIDDATAFORMATEXCEPTION
28374155	12C SCIM API RETURNS ITEMSPERPAGE INSTEAD OF TOTALRESULTS
30446841	IDENTITY AUDIT RULES CONTAINING SPECIAL CHARACTERS DO NOT RAISE POLICY VIOLATION
30484714	REFRESHROW ISSUE WITH OJDBC8
30587375	DEADLOCK CAUSING STUCK THREADS
30517242	OIMADMINPASSWD_WLS.SH FAILS ON IBM AIX WITH IBM JAVA JRE

**Table 1-15 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.210112**

<b>Bug Number</b>	<b>Description</b>
30808736	RECONCILIATION OF A USER STATUS FROM ACTIVE DIRECTORY DOES NOT SET OBUSERACCOUNTCONTROL IN LDAP
30835811	APPROVAL CHILD TASKS STATUS DOES NOT SHOW WITH BROWSER IN ITALIAN LANGUAGE
30883086	UNSUPPORTEDOPERATIONEXCEPTION ON MODIFYING USER WHEN USING UDF NUMBER IN ROLE MEMBERSHIP RULE
30932205	OIM REQUEST FAILED WITH MESSAGE IAM-2050126 : INVALID OUTCOME COM.ORACLE.BPEL.CLIENT.BPELFAULT
30992823	Fix for Bug 30992823
31161987	PASSWORD RESET IN MYINFORMATION SUBMIT BUTTON
31373822	NEED SPECIAL HANDLING OF INT ON FORM WHEN NO VALUE PASSED
31420786	ACCESS POLICY DOES NOT REMOVE ENTITLEMENT WHEN 2 CHILDFORMS ARE UPDATED TOGETHER
31530459	IPV6: PURGECACHE UTILITY IS NOT WORKING WITH IPV6 ENABLED SETUP
31645106	HARVESTED ENTS INCLUDED WHEN ENTITLEMENTS PROVISIONED BY AP UNCHECKED
31622015	WRONG NUMBER OF ROWS DISPLAYED ON THE CERTIFICATION TABLE
31641120	CONFIG UPGRADE FAILING IF SCHEMA SUFFIX OTHER THAN _OIM USED
31668539	EVALUATE USER ACCESS POLICY JOB STUCK AND CAUSING OIM SERVER TO GO INTO WARNING
31678727	OAM OIM 12CPS3 USER IS SHOWING STATUS AS UNLOCKED IN OIM CONSOLE EVEN IT IS LOCKED
31723765	DISABLEPOWEREDBYHEADER, SOAPRESTART BOOTSTARP FAILED WITH LOCALSVCTBLDATASOURCE DS ERROR
31956134	ATTEMPT TO PACK THE DOMAIN AFTER 12.2.1.3 UPGRADE FAILS DUE TO COMPONENT VERSION MISMATCHES
31969309	FIX FAIL BUG 31180365 ON 12CPS4 BP
31979466	PUMA: ACCOUNT CHOOSER POPUP DURING CHECKOUT KEEPS EXPANDING TILL REACH THE WINDOW LENGTH
32085862	FAILED TO REGISTER LIBRARY EXTENSION-NAME: ORACLE.IDM.IDS.CONFIG.UI: MUST PROVIDE SPECIFICATION-VERSION FOR LIBRARY
32254565	WHEN USER HAS NO ACCOUNT, CALL MADE TO INVOKE TRIGGERPOSTPROCESSHANDLER FAILS
32102761	PRE UPGARDE REPORT FAILS IF STAGING-MODE IS EMPTY
32103803	UPGRADE WITH REMOVED ITR PASSWORDS LEAD TO POST CREATE EVENT HANDLER KEEPS TRIGGERING

**Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011**



Applying this bundle patch resolves the issues described in [Table 1-16](#).

**Table 1-16 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011**

Bug Number	Description
26308544	DELETED ENTITLEMENTS IN ACCESS POLICY ARE NOT REMOVED IN TARGET APPLICATION
29404814	CERTIFYING 20K USERS WITH 20K ACCOUNTS AND 100K ENTITLEMENTS FAILS IN SELF-SERVICE
29603087	SELF REGISTRATION DOES NOT TRIGGER ROLE MEMEBERSHIP
30062969	TRUSTED RECON OF MANAGER DOES NOT PROPAGATE TO SSOTARGET
30145982	12C ACCOUNTS BULK LOAD TO AOB APPINST FAILS: "ONE OR MORE INPUT REQUIRED PARAM.
30202020	[ROLECERT]: NO CERTIFICATION TASK CREATED FOR PROXY USER'S MANAGER
30239831	CONT: ADAPTER FACTORY GENERATING INVALID JAVA CODE.
30414695	ISSUE WITH OFFLINE CERTIFICATION COMMENTS FIELD LENGTH WHEN UPDATING FROM EXCEL
30500178	XL.CATALOGSEARCHRESULTCAP NOT ONLY AFFECT THE UI BUT ALSO INTERNAL PROCESSING
30546975	WHILE WITHDRAWING A REQUEST, THE CONFIRMATION BOX IS APPEARING WITH A BIG DIALOG



**Note:**


See [#unique\\_72](#) for information about the input required for loading account data by using the Bulk Load Utility.

**Table 1-16 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011**

<b>Bug Number</b>	<b>Description</b>
30716490	UNABLE TO PROCESS BATCH UPDATE IF ANY SSOTARGET IN PROVISIONING STATUS FOR USER
30717640	RULEENGINEEXCEPTION: INVALID RULE EXPRESSION - NOT_IN
30717793	CLONED DISCONNECTED PROVISIONING COMPOSITE FAILS AT ASSIGNREQUESTINPUT STAGE
30738489	REQUESTS/PENDING REQUESTS GET ERROR IF SECOND MANAGER IS DISABLED
30838859	[ROLECERT]: FUTURE STARTING PROXY USER RECEIVES CERTIFICATION
30865103	DELETE TASK NOT TRIGGERED ON ATTRIBUTE SET AS NOT ENTITLEMENT IN CHILD FORM
30865689	ISSUE AUDIT MESSAGES JOB DOES NOT PROCESS AUD_JMS - ORA-01403: NO DATA FOUND
30866653	ACCESS DENIED ERROR WHEN CALLING CREATEITRESOURCEINSTANCE FROM SCHEDULED TASK
30893984	APPLICATION INSTANCE SORT ORDER IN USER CERTIFICATION NOT ALPHABETICAL
30910129	DUPLICATE ACCESS POLICY NAME ERROR NOT CLEAR
30925400	CRYPTIC ERROR MESSAGE WHEN REQUEST FAILS
30930007	EXPERIENCING VERY SLOW PERFORMANCE WHEN SCANNING SOD POLICIES WITH 4.5K RULES.
30942250	CREATE ADMIN ROLE THROWS: JBO-29000: UNEXPECTED EXCEPTION CAUGHT: JAVA.LANG.NULLPOINTEREXCEPTION
30977436	USER ASSIGNED TO A ROLE WITH THE "+" CHAR IN THE NAME CAN'T ACCESS WORKLISTAPP


**Table 1-16 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011**

Bug Number	Description
30978612	AP HARVESTING SYNC ATTRIBUTES/ ENTITLEMENTS TO MATCH WITH THE ACCESS POLICY
31057153	OIM 12C SSOTARGET APPLICATION PROFILE MODIFY NOT TAKING PATH IN LDAPCONTAINERRULES
31111401	ADMIN ROLE: JUMPING FROM SUMMARY PAGE BACK TO FIRST PAGE RESULTS IN LOST DATA
31114189	INTEGER FIELDS WITH NO VALUE DEFAULTING TO 0 FOR APPS CREATED USING AOB

 **Note:**


See [#unique\\_73](#) for information about the XL.APHa rvesting. AllowAccountData Update system property for enabling account data update.


**Table 1-16 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011**

Bug Number	Description
31162758	OIM 12C SSO USER TARGET RECON OVERWRITING ROLE VALUE SAVED ON OIM USER WITH DEFAULT VALUE
	<div style="border: 1px solid #0070C0; padding: 10px; background-color: #E6F2FF;">  <b>Note:</b>            See <a href="#">#unique_74</a> for information about the manual steps required for the bug fix to work.         </div>
31177214	UNABLE TO ADD EMPLOYEE TYPE AS DISPLAY DATA IN THE INFORMATION WINDOW
31180365	UPGRADE FROM 11.1.2.3 TO 12.2.1.3: STRINGINDEXOUTOFBOUNDSEXCEPTION: STRING INDEX OUT OF RANGE: -19
31193971	ENTITLEMENT CERTIFICATIONS ARE NOT GETTING GENERATED FOR SOME OF THE CERTIFIERS.
31202544	NON REQUESTABLE ROLES INCONSISTENT BEHAVIOR IN CERT DEFN "CONTENT SELECTION"
31254720	DIAG: POOR LOGGING IN OIMDATAPROVIDER
31292576	PASSWORD CHANGE FLOW ISSUES AFTER FIX 30809484
31316925	ENT CERT SHOULD BE CREATED FOR CERTIFIER FOR REMAING ENT WHICH ARE CORRECT
31351771	INCONSISTENT VALUES IN THE REQUEST STATUS FILTER FROM TRACK REQUESTS PAGE
31375771	SSO TARGET APPLICATION FAILS TO GET PROVISIONED WITH MANAGER ATTRIBUTE.
31434988	ENT_ASSIGN_HIST DOESN'T SAY IF THE ENTITLEMENT WAS PROVISIONED OR INPROGRESS

**Table 1-16 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.201011**

Bug Number	Description
31464420	DISABLE USER TASK IS GETTING TRIGGERED FOR PROVISIONING ACCOUNTS
31555186	CERTIFY OIM OAM INTEGRATION ON SOLARIS
31605168	INTEROP: UPDATING ROLE NAME IN TARGET LDAP AND RECONCILE DID NOT UPDATE THE ENTILEMENTS IN INTEROP ENV
31605187	INTEROP:SSO FULL USER RECON DID NOT UPDATE WITH LAST TOKEN VALUE
31670117	INTEROP: ERROR COMING ON MODIFYING ROLE IN INTEROP AD ENVIRONMENT

 **Note:**  
See [Revoking Members hip Does Not Work](#) for the known issue about the bug fix.

 **Note:**  
See [SSO Full User Reconciliation](#) for the manual steps required for the bug fix to work.

**Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200624**

Applying this bundle patch resolves the issues described in [Table 1-17](#).

**Table 1-17 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200624**

Bug Number	Description
29055661	PASSWORD POLICY DOES NOT MATCH BETWEEN OIM AND AD CAUSING ISSUES DURING PASSWORD SYNC
30007378	REASSIGN THE REVIEWER ON CERTIFICATION FAILED ON PREVENTING SELF CERTIFICATION
30097140	SLOWNESS OPENING USER DETAILS ADMIN ROLES TAB
30153927	APPROVAL DETAILS INCORRECT AFTER REVOKING ROLE BY XELSYSADMIN AND ANOTHER USER
30216857	SETCHALLENGERESPONSESFORLOGGEDINUSER - CHALLENGE QUESTIONS PROVIDED ARE NOT DEFINED
30343249	WHILE DELETING ORGANIZATION USERS REMAIN IN ACTIVE STATE
30343784	ACCESS POLICY NOT REVOKING ENTITLEMENTS ON ALREADY DISABLED USERS
30376706	ROLEMANAGER GRANTROLE SQLEXCEPTION: EXCEEDED MAXIMUM VARRAY LIMIT
30391615	ROLE WITH RULE FOR DATE FIELD IS NOT ASSIGNED TO USER
30420218	OIM/OAM INTEGRATION USER SESSION LOST AFTER ANY USER DATA EDITED
30439939	AP HARVESTING DOES NOT WORK FOR RESOURCES WITH MULTIPLE PROVISIONING WORKFLOWS
30506899	DELETE RECONCILIATION LEAVES PROVISIONING OPEN TASKS IN LIMBO STATE.
30517366	DELEGATE THE REVIEWER ON CERTIFICATION FAILED ON PREVENTING SELF CERTIFICATION
30757297	DISCONNECTED APPLICATION NOT TRIGGERING UPDATE TASK ON CHILD FORM
30788834	DIAG: NEED SOME TRACE LOGGING IN THE SCIM FUNCTIONALITY
30896936	PUMA: CUSTOM MESSAGE NOT DISPLAYED WHEN COMPLETING MANUAL TASK
31184149	PERFORMANCE ISSUE IN OIMDATAPROVIDER.GETARRAYFORHIERARCHY
31477738	UNABLE TO CREATE RULE MEMBERSHIP WITH DATE DATA TYPE

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200505

Applying this bundle patch resolves the issues described in [Table 1-18](#).

**Table 1-18 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200505**

<b>Bug Number</b>	<b>Description</b>
27074256	OIM-OAM-OID: SSO USER FULL RECONCILIATION DO NOT DELETE USER
27216374	OIM-OAM-AD: SSO GROUP HIERARCHY SYNC FULL RECON DO NOT WORK
30257502	USER SESSION IS NOT TERMINATED IN UPGRADED 12CPS4 ENV
30327749	ROLES CREATED IN OIM ARE SHOWN AS ENTITLEMENT IN CATALOG SEARCH
30330170	LDAP USER DELETE RECON JOB NOT AVAILABLE
30330745	ISSUE WITH USER-ROLE MEMBERSHIP RECON
30354276	REMOVE LDAPSVC RELATED JOBS IN CONNECTOR BASED 12CPS4 OAM-OIG ENV
30555995	SSOTARGET AND SSOTRUSTED-FOR-SSOTARGET SHOULD NOT BE AVAILABLE FOR OTHER OIM OPERATIONS SUCH AS REQUEST
30654239	USER NOT SEEN IN USER CONTAINER AFTER APPROVING THE USER REG REQUEST IN ROLLING UPG ENV(11G-12CPS3-12CPS4))
30654620	USER NOT SHOWN AS LOCKED IN OIM AFTER PROVIDING WRONG PASSWORDS IN ROLLING UPG ENV(11G-12CPS3-12CPS4)
30654852	ROLE CREATED IN OIM IS NOT SEEN IN LDAP IN ROLLING UPG ENV(11G-12CPS3-12CPS4)
30655208	ROLE CREATED IN OUD IS NOT SEEN IN OIM IN ROLLING UPG ENV (11G-12CPS3-12CPS4)
30655442	SESSION TERMINATION FAILING IN ROLLING UPG ENV (11G-12CPS3-12CPS4)
30655935	ROLLING UPG(11G-12CPS3-12CPS4): SSOTARGET APP INSTANCE DOES NOT HAVE ANY ENTITLEMENTS IN 12CPS4
30855442	NOT ABLE TO ADD MEMBER IN EXISTING ROLES IN AD ROLLING UPGRADE ENV (11G-12CPS3-12CPS4)
30855747	CAN NOT ADD ROLE HIERARCHY FOR EXISTING ROLES IN AD ROLLING UPGRADE ENV(11G-12CPS3-12CPS4)
30855892	CAN NOT DELETE EXISTING ROLES IN AD ROLLING UPGRADE ENV(11G-12CPS3-12CPS4)
30857219	SSO GROUP HIERARCHY SYNC FULL RECONCILIATION JOB AND SSO GROUP HIERARCHY SYNC INCREMENTAL RECONCILIATION JOB FAILING IN AD ROLLING UPGRADE ENV
30864002	EXECUTION OF SSO GROUP HIERARCHY SYNC FULL RECONCILIATION IS SHOWN AS FAILED IN OUD BASED ROLLING UPGRADE ENV
30864119	EXECUTION OF SSO GROUP MEMBERSHIP FULL RECONCILIATION IS SHOWN AS FAILED IN OUD BASED ROLLING UPGRADE ENV
30868468	MODIFICATIONS TO NEWLY CREATED USER IS FAILING IN AD ROLLING UPGRADE ENV

**Table 1-18 (Cont.) Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200505**

Bug Number	Description
31190098	INTEROP OIM_OAM_OUD IS BROKEN AFTER APPLYING PATCH 31178096
31198576	TC_CB_SAFE_BUG20134996_DIFFCASEINGROUPLOOKUP_XEL SYSADM.DIF IN LRG_OIM_12CPS4_DB_CUSTOMER_1 TOPO

## Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200206

Applying this bundle patch resolves the issues described in [Table 1-19](#).

**Table 1-19 Resolved Issues in OIM BUNDLE PATCH 12.2.1.4.200206**

Bug Number	Description
29942217	IMPLEMENT BLIND/FILTERED SEARCH "FOR A REPORTEE" FOR A MANAGER
29972923	STEPS TO ROLLBACK AUTOCOMMITTED DDL OPERATIONS IN DB
30325576	PARTIAL FIX FOR BUG 28777983
30680152	ORGANIZATION SEARCH IN TRACK REQUESTS PAGE: ALL REQUESTS NOT DISPLAYED FOR ORGANIZATION NAME SEARCH IF NUMBER OF REQUESTS GREATER THAN 25
30680286	ORGANIZATION SEARCH IN TRACK REQUESTS PAGE: DOES NOT EQUAL OPERATOR NOT WORKING AS EXPECTED
30717520	ORGANIZATION SEARCH IN TRACK REQUESTS PAGE: BENEFICIARY NAME NOT LISTED

## Known Issues and Workarounds

Known issues and their workarounds in Oracle Identity Governance Release 12.2.1.4.0 are described in the Oracle Identity Governance chapter of the *Release Notes for Oracle Identity Management* document. You can access the Release Notes document in the Oracle Identity Management Documentation library at the following URL:

<https://docs.oracle.com/en/middleware/idm/suite/12.2.1.4/idmnrn/index.html>



 **Note:**

Some known issues listed in the Release Notes for Oracle Identity Management may have been resolved by this Bundle Patch (OIM BUNDLE PATCH 12.2.1.4.240415). Compare the issues listed in [Resolved Issues](#) of this document when reviewing the *Release Notes for Oracle Identity Management*.

This section describes the issues and workarounds in this BP release of Oracle Identity Governance:

- [Restoring the Role Membership after Deletion](#)
- [Members Tab in Admin Role Freezes While Searching](#)
- [Revoke Multiple Entitlements Using Rest API](#)
- [Adding Missing ObjectClasses With OID](#)
- [Entitlement Type Not Available for Certification Reports](#)
- [Errors Related to the For Reportees Feature](#)
- [Identity Self Service and Identity System Administration are Inaccessible After Upgrading OPatch Version](#)
- [Revoking Membership Does Not Work](#)
- [Upgrade Assistant Fails With StringIndexOutOfBoundsException](#)
- [Error on Running Bulk Load on ATP-D Setup](#)

## Restoring the Role Membership after Deletion

Once a Role associated with a Rule is removed using OIM UI (condition associated with the rule is still satisfied), running the scheduled job: “Refresh Role Membership” will not restore the user.

## Members Tab in Admin Role Freezes While Searching

Issue:

The **Members** tab in the Admin Role freezes while you are trying to search for users and add them.

Resolution:

When this issue appears, the ADF patch 34247006 is required to resolve this issue.

## Revoke Multiple Entitlements Using Rest API

While revoking multiple entitlements, a request gets created automatically if you use the REST client such as POSTMAN.

To view the request, navigate to Pending Approvals. If you approve the request without visiting the Pending Approvals section, the entitlements gets revoked. Select the specific request which opens the Request Details page.

An error, ORA-00911: `invalid character` is displayed and the entitlements are removed from the cart.

## Adding Missing ObjectClasses With OID

As a workaround for the bug 33541821, while running `OIGOAMIntegration.sh` for adding the missing ObjectClasses with OID `*only*`, if you encounter the following error, then re-run the command and add the missing objectClasses.

Context Initialization Error

Solution: Uncomment line number 227 in `_OIGOAMIntegration.sh`:

```
read -p "Enter OID's ORACLE_HOME": ORACLE_HOME
```

### Note:

You have to input the OID MW\_HOME from the command line.

## Entitlement Type Not Available for Certification Reports

In this patch, the feature **Entitlement Type** is introduced. The Certification UI and the Certification report does not display **Entitlement Type** details.

## Errors Related to the For Reportees Feature

While searching requests in the Track Request window, when using the Organization Name search criteria together with the "For Reportees" option, at least one reportee should be associated with the Organization Name that was used:

```
IAM-2053037 : An error occurred while searching for the reportees as the
organization name is
    invalid or not associated with any reportee (This is EXPECTED). Atleast 1
direct reportee
    should belong to the org name
```

The total number of direct reportees and indirect reportees must not exceed 1000. If the number of reportees (direct and indirect) exceeds the value of 1000, then the following error message is displayed:

```
"IAM-2053036 : An error occurred while searching for the reportees as the
reportee size exceeded the limit 1,200. Please retry with other search criteria"
```

## Identity Self Service and Identity System Administration are Inaccessible After Upgrading OPatch Version

After upgrading the OPatch version from 13.9.2.0.0 to 13.9.4.0.0, Identity Self Service and Identity System Administration cannot be accessed because of a mismatch in the versions of the `com.oracle.cie.com*.jar` file.

For more information about this issue and a workaround, see Tech Note *OIM 12c: OIM Consoles Do Not Come Up After Upgrading OPatch Version From 13.9.2.0.0 to 13.9.4.0.0 Due to com.oracle.cie.com\*.jar (Doc ID 2535244.1)* at the My Oracle Support web site at:

<https://support.oracle.com>

## Revoking Membership Does Not Work

As part of the bug fix for 31605168, the entitlements are now updated with new role names, but the revoking of membership is not working.

## Upgrade Assistant Fails With StringIndexOutOfBoundsException

Running the Upgrade Assistant for upgrading Oracle Identity Manager 11g Release 2 (11.1.2.3.0) to Oracle Identity Governance 12c (12.2.1.4) fails with the following error:

```
[2020-04-14T16:03:48.087-04:00] [Framework] [ERROR] [] [upgrade.Framework] [tid:
XX] [ecid: XXXX] [[
  java.lang.StringIndexOutOfBoundsException: String index out of range: -19
  at java.lang.String.substring(String.java:1967)
  at oracle.iam.oimupgrade.mrua.OIMMRUA.readiness(OIMMRUA.java:345)
  at oracle.ias.update.plugin.Plugin.readiness(Plugin.java:595)
  at oracle.ias.update.plan.PlanStep.readiness(PlanStep.java:730)
  at
oracle.ias.update.PhaseProcessor$ReadinessProcessor.runStepPhase(PhaseProcessor.j
ava:873)
  at oracle.ias.update.PhaseProcessor.runStep(PhaseProcessor.java:369)
  at
oracle.ias.update.PhaseProcessor$ExtendedRunnable.run(PhaseProcessor.java:1058)
  at
java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1149)
  at
java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:624)
  at java.lang.Thread.run(Thread.java:748)
]]
```

The issue takes place during the MDS backup. The cause of the error is the MDS JDBC URL used, which is in the form:

```
jdbc:oracle:thin:@(DESCRIPTION=(LOAD_BALANCE=on) (ADDRESS=(PROTOCOL=TCP)
(HOST=xxxx) (PORT=1521)) (ADDRESS=(PROTOCOL=TCP) (HOST=xxxx)
(PORT=1521)) (CONNECT_DATA=(SERVER=DEDICATED) (SERVICE_NAME=xxxx)
(FAILOVER_MODE=(TYPE=select) (METHOD=basic))))
```

The upgrade tool does not expect complex URLs with something before the address field.

To workaround this issue, remove `(LOAD_BALANCE=ON)` from the JDBC URL.

## Error on Running Bulk Load on ATP-D Setup

When you run the Bulk Load utility on ATP-D by using wallet, the utility exits with the following error:

```
./oim_blkld_usr_load.sh: line 260: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 311: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 336: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 361: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 386: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 411: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 436: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 462: /home/opc/db18c/bin/sqlplus: Permission denied
./oim_blkld_usr_load.sh: line 486: /home/opc/db18c/bin/sqlplus: Permission denied
```

To work around this issue:

1. Log in to Oracle WebLogic Administration Console as an administrator.
2. Click **Services, Datasources**.
3. Select the **oimOperationsDB** datasource.
4. Click **Connection Pool**, and check the URL value. It is similar to the following:

```
jdbc:oracle:thin:@(DESCRIPTION=(CONNECT_TIMEOUT=120)(RETRY_COUNT=20)
(RETRY_DELAY=3)(TRANSPORT_CONNECT_TIMEOUT=3)(ADDRESS_LIST=(LOAD_BALANCE=on)
(ADDRESS=(PROTOCOL=TCP)(HOST=abc.example.com)(PORT=1521)))
(CONNECT_DATA=(SERVICE_NAME=db.example.com)))
```

5. Use the hostname, port, and service name from the URL value to run the Bulk Load utility.

## Related Documents

For more information, see the following resources:

- [Oracle Fusion Middleware Documentation](#)  
This contains documentation for all Oracle Fusion Middleware 12c products.
- [Oracle Technology Network](#)  
This site contains additional documentation that is not included as part of the documentation libraries.

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Oracle Fusion Middleware Oracle Identity Governance Bundle Patch Readme, OIM Bundle Patch 12.2.1.4.240415  
F94867-02

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