

## Oracle Internet Directory Bundle Patch Readme

This document describes Oracle Internet Directory (OID) Bundle Patch 12.2.1.4.210115.

This document describes the bug fixes that are included with Bundle Patch 12c Release (12.2.1.4.210115) for OID and the procedure to install it. It contains the following topics:

- [New Features and Enhancements in OID Bundle Patch 12.2.1.4.210115](#)
- [Understanding Bundle Patches](#)
- [Bundle Patch Recommendation](#)
- [Using the Oracle Patch Mechanism \(Opatch\)](#)
- [Before Applying the Bundle Patch](#)
- [Applying the Bundle Patch](#)
- [After Applying the Bundle Patch](#)
- [Removing the Bundle Patch](#)
- [Resolved Issues](#)
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### New Features and Enhancements in OID Bundle Patch 12.2.1.4.210115

Oracle Internet Directory 12.2.1.4.210115 BP includes the following new enhancement:

Support for Running the Oracle Internet Directory Server Diagnostic Command-Line Tool without SYS User Password

You can now run the Oracle Internet Directory Server Diagnostic command-line tool (`oiddiag`) without providing the SYS database user password. When you do so, the tool only collects diagnostics data that does not require sysdba privileges.

## Additional Information About OID Bundle Patch 12.2.1.4.210115

The following table lists the MOS notes that you can refer to for additional information about the OID bundle patch 12.2.1.4.210115. You can view all the MOS notes listed in this table by searching for the Doc ID in [My Oracle Support](#).

Bug Number	Doc ID	Description
32250901	2743483.1	OID 12c Doc 32250901 - oiddebuglogsetter.sh Script in OID12cPS3 Jan'21 and OID12cPS4 Jan'21 Bundle Patches
32250993	2743489.1	OID 12c Doc 32250993 - Manual Addition of <Hostname> in \$domain_home/config/config.xml
32296821	2535934.1	OID 12c Creating an Instance Using Same Instance Name From a Prior Failed Configuration Attempt Fails to Start: [Server start command for OID server '<INSTANCE NAME>' failed due to: [Server failed to start up but Node Manager was not aware of the reason]

## Understanding Bundle Patches

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

- [Stack Patch Bundle](#)
- [Bundle Patch](#)
- [Interim Patch](#)
- [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 Oracle Mobile Security Suite components in the bundle patch.

## Interim Patch

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

You may also know an interim patch as: security one-off, exception release, x-fix, PSE, MLR, or hotfix.

## 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.

## Bundle Patch Recommendation

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

## Using the Oracle Patch Mechanism (Opatch)

OPatch is a Java-based utility that runs on all supported operating systems and requires installation of the Oracle Universal Installer. It is used to apply patches to Oracle software.

 **Note:**

Oracle recommends that you have the latest version of Opatch (version 13.9.4.2.5 or higher) from [My Oracle Support](#). Opatch requires access to a valid Oracle Universal Installer (OUI) Inventory to apply patches.

The patching process uses both unzip and Opatch executables. After sourcing the `ORACLE_HOME` environment, Oracle recommends that you confirm that both of these exist before patching. Opatch is accessible at:

```
$ORACLE_HOME/OPatch/opatch
```

When Opatch starts, it validates the patch to ensure there are no conflicts with the software already installed in your `ORACLE_HOME`:

- If you find conflicts with a patch already applied to the `ORACLE_HOME`, stop the patch installation and contact Oracle Support Services.
- If you find conflicts with a subset patch already applied to the `ORACLE_HOME`, continue Bundle Patch application. The subset patch is automatically rolled back before installation of the new patch begins. The latest Bundle Patch contains all fixes from the previous Bundle Patch in `ORACLE_HOME`.

This Bundle Patch is not `-auto` flag enabled. Without the `-auto` flag, no servers need to be running. The Machine Name & Listen Address can be blank on a default install.

 **See Also:**

[Patching Your Environment Using OPatch](#) in *Patching with OPatch*.

## Identifying the Version of OPatch

In general, there is a version of OPatch available for each version of the Oracle Universal Installer software.

To identify the version of OPatch:

1. Change directory to the following directory:

```
cd ORACLE_HOME/OPatch/
```

2. Run the following command:

```
./opatch version
```

For example:

```
./opatch version
OPatch Version: 13.9.4.2.5

OPatch succeeded.
```

## Obtaining Patches Required for Your Installation

You can search for and download the patches required for your installation from [My Oracle Support](#).

After you sign in to My Oracle Support, click the **Patches & Updates** tab, which provides various tools that allow you to quickly locate the patches important to your Oracle Internet Directory.

## Before Applying the Bundle Patch

This section describes the requirements before applying the bundle patch.

Complete the following prerequisites before applying this bundle patch:

1. If Oracle Internet Directory is installed then stop all OID server instances using `shutdown()` command:

```
shutdown(name='instance-name',type='OID')
```

Or you can also run the following script to stop OID server instances:

### UNIX

```
stopComponent.sh 'instance-name'
```

### Windows

```
stopComponent.cmd 'instance-name'
```

2. If Oracle Directory Integration Platform is installed:
  - a. Stop the Oracle Directory Integration Platform using the WLST command:

```
stopApplication ("DIP")
```

- b. Stop the Oracle WebLogic Administration Server:

### UNIX

```
DOMAIN_NAME/bin/stopWebLogic.sh
```

## Windows

```
DOMAIN_NAME\bin\stopWebLogic.cmd
```

### Note:

Where `DOMAIN_NAME` is the root directory of the domain. (The name of this directory is the name of the domain.). By default, this directory is `ORACLE_HOME\user_projects\domains\DOMAIN_NAME`.

- c. Stop the Oracle WebLogic managed components, such as Oracle Directory Integration Platform and Oracle Directory Services Manager:

## UNIX

```
DOMAIN_NAME/bin/stopManagedWebLogic.sh managed_server_name  
admin_url
```

## Windows

```
DOMAIN_NAME\bin\stopManagedWebLogic.cmd managed_server_name  
admin_url
```

Where `managed_server_name` specifies the name of the Managed Server (The default value is `wls_ods1`.) and `admin_url` specifies the listen address (host name, IP address, or DNS name) and port number of the domain's Administration Server.

## Example

```
c:\Oracle\Middleware\user_projects\domains\base_domain\bin\stopMa  
nagedWebLogic.cmd wls_ods1 http://AdminHost:7001
```

### Note:

The above steps are followed only when there is a technical need to manually stop the Oracle Directory Integration Platform application.

3. Before you run OPatch, ensure that you set the `ORACLE_HOME` environment variable to Oracle home location (under which Oracle Internet Directory or Oracle Directory Integration is installed).

Example

## UNIX

```
<bash> export ORACLE_HOME="/install_location/Oracle_Home/OID_Dir"
```

## Windows

```
<prompt> set ORACLE_HOME="\install_location\Oracle_Home\OID_Dir
```

4. Verify that ORACLE\_HOME is set correctly by running the following command.

## UNIX

```
ls $ORACLE_HOME/OPatch/opatch
```

## Windows

```
dir %ORACLE_HOME%\OPatch\opatch.bat
```

## Applying the Bundle Patch

You can apply the bundle patch for Oracle Internet Directory or Oracle Directory Integration Platform either in an existing or in a new installation.

- [Applying the Bundle Patch for an Existing Installation](#)
- [Applying the Bundle Patch for a New Installation](#)

## Applying the Bundle Patch for an Existing Installation

Perform the following steps to apply the bundle patch for an existing Oracle Internet Directory or Oracle Directory Integration Platform installation:

1. Unzip the patch zip file into the PATCH\_TOP, where PATCH\_TOP is a directory path that temporarily contains the patch for installation.

```
$ unzip -d PATCH_TOP p32388172_122140_Linux-x86-64.zip
```

### Note:

In Windows, the unzip command has a limitation of 256 characters in the path name. In scenarios where you face this issue, use an alternate ZIP utility like 7-Zip to unzip the patch.

2. Set your current directory to the directory where the patch is located.

## UNIX

```
$ cd PATCH_TOP/32388172
```

## Windows

```
PATCH_TOP\32388172
```

3. Run OPatch to apply the patch.

#### UNIX

```
$ [ORACLE_HOME]/OPatch/opatch apply
```

#### Windows

```
[ORACLE_HOME]\OPatch\opatch.bat apply
```

#### Note:

When OPatch starts, it validates the patch and makes sure that there are no conflicts with the software already installed in the `ORACLE_HOME`. OPatch categorizes two types of conflicts:

- a. Conflicts with a patch already applied to the `ORACLE_HOME`. In this case, stop the patch installation, and contact Oracle Support Services.
- b. 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`.

## Applying the Bundle Patch for a New Installation

Perform the following steps to apply the bundle patch for a new Oracle Internet Directory or Oracle Directory Integration Platform installation:

1. Install Oracle Internet Directory binaries.  
For more information about installing the binaries, see [Installing the Oracle Internet Directory Software](#) in *Installing and Configuring Oracle Internet Directory*.
2. Apply patch, as described in [Applying the Bundle Patch for an Existing Installation](#).
3. For Oracle Internet Directory, you must configure it after you install Oracle Internet Directory binaries. For more information, see [Configuring Oracle Internet Directory Domain](#) in *Installing and Configuring Oracle Internet Directory*.

After you install and configure Oracle Internet Directory, see in Getting Started With Oracle Internet Directory in *Administering Oracle Internet Directory*.

4. For Oracle Directory Integration Platform, you must configure it after you install Oracle Internet Directory binaries.  
For more information, see [Configuring Oracle Directory Integration Platform](#) in *Installing and Configuring Oracle Internet Directory*.

## After Applying the Bundle Patch



Based on the type of product installed, follow the instruction given below:

- If Oracle Internet Directory is installed, then restart all Oracle Internet Directory Server instances using WLST `start()` command:

```
start(name='instance-name',type='OID')
```

- If Oracle Directory Integration Platform is installed, then perform the following steps:

1. Restart the Oracle WebLogic Administration Server.

#### UNIX

```
DOMAIN_NAME/bin/startWebLogic.sh
```

#### Windows

```
DOMAIN_NAME\bin\startWebLogic.cmd
```

#### Note:

Where `DOMAIN_NAME` is the root directory of the domain. (The name of this directory is the name of the domain.). By default, this directory is `ORACLE_HOME\user_projects\domains\DOMAIN_NAME`.

2. Restart the Oracle WebLogic managed components, such as Oracle Directory Integration Platform and Oracle Directory Services Manager.

#### UNIX

```
DOMAIN_NAME/bin/startManagedWebLogic.sh managed_server_name  
admin_url
```

#### Windows

```
DOMAIN_NAME\bin\startManagedWebLogic.cmd managed_server_name  
admin_url
```

Where `managed_server_name` specifies the name of the Managed Server (The default value is `wls_ods1`.) and `admin_url` specifies the listen address (host name, IP address, or DNS name) and port number of the domain's Administration Server.

#### Example

```
c:\Oracle\Middleware\user_projects\domains\base_domain\bin\startM  
anagedWebLogic.cmd wls_ods1 http://AdminHost:7001
```

- If you are using Oracle Directory Server Enterprise Edition as the back-end directory for Oracle Directory Integration Platform synchronization, then update Oracle Directory Server Enterprise Edition plug-in:
  1. Change to the directory where the patch was unzipped.
  2. Select either `dip-plugin.so` (UNIX) or `dip-plugin.dll` (Windows) from the following directory in the Oracle Identity Management distribution package.

#### UNIX

```
ORACLE_HOME/dip/Utils/dip-plugin
```

#### Windows

```
ORACLE_HOME\dip\Utils\dip-plugin
```

3. Copy it into your Oracle Directory Server Enterprise Edition installation:

#### UNIX

32-bit system

```
INSTALL-PATH/dsee7/lib
```

64-bit system

```
INSTALL-PATH/dsee7/lib64
```

#### Windows

32-bit system

```
INSTALL-PATH\dsee7\lib
```

64-bit system

```
INSTALL-PATH\dsee7\lib64
```

4. Restart Oracle Directory Server Enterprise Edition instance using the `dsadm` command:

```
$ dsadm restart instance-path
```

## Removing the Bundle Patch

If you experience any problems after installing this patch, remove the patch as follows:

1. Make sure to follow the same Prerequisites or pre-install steps (if any) when you uninstall a patch. This includes setting up any environment variables like `ORACLE_HOME` and verifying the OUI inventory before uninstalling.

2. Run OPatch to uninstall the patch:

```
[$ORACLE_HOME]/OPatch/opatch rollback -id 32388172
```

3. If you are using Oracle Directory Server Enterprise Edition (ODSEE) as the back-end directory for Oracle Directory Integration Platform (DIP), you must roll back the ODSEE plug-in.
4. If you are using ODSEE or OUD as the back-end directory for Oracle Directory Integration Platform, please contact your ORACLE support incase your password is encrypted by the plug-in while the new plug-in is running.

 **Note:**

This can be in scenarios where you are using ODSEE or OUD as the DIP backend directory and you are also using the feature Password Translate.

5. Start the NodeManager and the AdminServer with the following commands:

```
[$DOMAIN_HOME]/bin/startNodemanager.sh  
[$DOMAIN_HOME]/bin/startWeblogic.sh
```

 **Note:**

It is not required to start the Admin Server for Standalone installations.

6. If OID is installed, restart all Oracle Internet Directory Server instances using `startComponent.sh` command:

```
[$DOMAIN_HOME]/bin/startComponent.sh instance-name
```

or you can start the Oracle Internet Directory Server instances by connecting to the AdminServer via WLST and executing the WLST `start()` command.

```
start(name='instance-name',type='OID')
```

If DIP is installed, restart the Weblogic Managed server DIP was deployed to

```
[$DOMAIN_HOME]/bin/startManagedWeblogic.sh <managed server>
```

or you can start the Weblogic Managed server DIP was deployed to by connecting to the AdminServer via WLST and executing the WLST `start()` command.

```
start('managedServerName','Server')
```

## Resolved Issues

This chapter describes resolved issues in this Bundle Patch.

This Bundle Patch provides the fixes described in the below section:

- [Issues Resolved in 12c Release \(12.2.1.4.210115\)](#)

### Issues Resolved in 12c Release (12.2.1.4.210115)

The following table lists the issues resolved in OID Bundle Patch 12.2.1.4.210115:

**Table 1-1 Resolved Issues in 12c Release (12.2.1.4.210115)**

Bug Number	Bug Name
20360006	LOADBALANCER PING CAUSES "SGSLUFREAD: HARD ERROR ON READ, OS ERROR = 104"
24464510	OID BECOMES UNRESPONSIVE INTERMITTENTLY
26268699	Fix for Bug 26268699
26828926	INCORPORATE ISW RESYNC CAPABILITIES INTO DIP
27253930	DIP ERROR WHEN SAVING SYNCHRONIZATION PROFILE IN EM PASSWORD MORE THEN 15 CHARS
27825430	FEATURE TO RUN OIDDIAG WITHOUT SYS USER
29656196	NEED CORRECT /ETC/HOSTS CONFIGURATION FOR ALIASES
29692493	OID 11.1.1.9.160719 PORT STOPS RESPONDING
30091360	IMPORT USER DATA FROM LDIF FILE VIA ODSM FAILS
31040001	OID INTERNAL PRODUCTION MT - REPLICATION BETWEEN ADC AND UCF NOT WORKING FOR ORG GROUPS
31421942	OID CLEAN UP - OS RESOURCE AND SAME INSTANCE NAME FROM A PRIOR FAILED CONFIGURATION ATTEMPT FAILS TO START:(DOC ID 2535934.1)
31422015	OID11G: HOW TO AUDIT/TRACE AND CAPTURE MODIFICATION OF AN OBJECTCLASS NAME (DOC ID 2471961.1)

## Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

## Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

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Oracle® Fusion Middleware Oracle Internet Directory Bundle Patch Readme, 12c (12.2.1.4.210115)  
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