

Oracle Unified Directory Bundle Patch Readme

This document describes Bundle Patch 12.2.1.4.200526 for Oracle Unified Directory.

This readme document requires base installation of Oracle Unified Directory 12c (12.2.1.4.0). It includes the following sections:

Note:

For issues documented after the release of OUD Bundle Patch 12.2.1.4.200526, log into [My Oracle Support](#). In the Search Knowledge Base field, enter 2602696.1. This is the ID of the document that describes the Oracle Fusion Middleware 12.2.1.4.0 Known Issues.

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Understanding Bundle Patches

This section describes bundle patches and explains differences between bundle patches, interim patches (also known as patch set exceptions), 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 Oracle Unified Directory. 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 libraries and files that have been rebuilt to implement one or more fixes. All of the fixes in a bundle patch are tested and certified to work with one another. Each bundle patch is cumulative. That is, the latest bundle patch includes all fixes in earlier bundle patches for the same release.

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>.

Bundle Patch Requirements

Before you run OPatch, find the OPatch utility in the Oracle home (ORACLE_HOME) and verify that you have the latest version.

Complete the following steps before you apply the bundle patch:

- Verify that the OPatch version is 13.9.4.2.4 or higher.
 1. Access and log into My Oracle Support at the following location:
<https://support.oracle.com/>
 2. In the Search Knowledge Base field, enter **1587524.1**. This is the ID of the document that describes Using OUI NextGen OPatch 13 for Oracle Fusion Middleware 12c.
 3. In the search results, click the link corresponding to document ID **1587524.1**.
 4. In the document, click the **Patch 28186730** link which will take you to the screen where you can obtain the OPatch 13.9.4.2.4.

- Verify the OUI Inventory:

OPatch needs access to a valid OUI inventory to apply patches. Validate the OUI inventory with the following commands:

Unix

```
$ opatch lsinventory
```

Windows

```
opatch.bat lsinventory
```

If the command throws errors than contact Oracle Support and work to validate and verify the inventory setup before proceeding.

- Confirm the executables appear in your system PATH.

Unix

```
$ which opatch
```

```
$ which unzip
```

Windows

```
where opatch.bat
```

```
where unzip
```

If the command errors out, contact Oracle Support and work to validate and verify the inventory setup before proceeding. If either of these executables do not show in the `PATH`, correct the problem before proceeding.

- Create a location for storing the unzipped patch. This location will be referred to later in the document as `PATCH_TOP`.

Before Applying the Bundle Patch

Before you apply the bundle patch for Oracle Unified Directory 12c (12.2.1.4.0), you must set the environment variable and stop all the Directory Server instances and domains.

You must complete the following prerequisites for applying the bundle patch:

1. Prepare the application server instance for patching OUDSM.

Stop the Administration Server (the WebLogic domain used for OUDSM).



Note:

You must read about the OUDSM auto redeployment instructions in [Documentation Updates](#) before applying this bundle patch.

2. Set `ORACLE_HOME` environment variable to Oracle Middleware Home Location (under which OUD is installed).

For example:

Unix

```
$ <bash> export ORACLE_HOME="Oracle Middleware Home Location"
```

Windows

```
<prompt> set ORACLE_HOME="Oracle Middleware Home Location"
```

3. 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
```

4. Stop all the Directory Server instances and domains where Oracle Unified Directory Services Manager (OUDSM) is installed, depending upon the domain configuration.

Stop Standalone Oracle Unified Directory Server

If you installed Oracle Unified Directory in a Standalone Oracle Unified Directory Server (Managed independently of WebLogic server) mode, stop all the Directory Server instances using the `stop-ds` command.

Unix

```
ORACLE_HOME/INSTANCE_NAME/OUDBIN/stop-ds
```

Windows

```
ORACLE_HOME\INSTANCE_NAME\OUD\bat\stop-ds.bat
```

Stop Collocated Oracle Unified Directory Server

If you installed Oracle Unified Directory in a Collocated Oracle Unified Directory Server (Managed through WebLogic server) mode, complete the following steps:

- a. Stop the OUD instance by running the following command from command line interface.

Unix

```
DOMAIN_HOME/bin/stopComponent.sh INSTANCE_NAME
```

Windows

```
DOMAIN_HOME\bin\stopComponent.bat INSTANCE_NAME
```

- b. Stop the node manager.

Unix

```
DOMAIN_HOME/bin/stopNodeManager.sh
```

Windows

```
DOMAIN_HOME\bin\stopNodeManager.cmd
```

- c. Stop the Oracle WebLogic Administration Server.

Unix

```
DOMAIN_HOME/bin/stopWebLogic.sh
```

Windows

```
DOMAIN_HOME\bin\stopWebLogic.cmd
```

Stop the Oracle Directory Integration Platform and OUDSM Configured in a Single Domain

If you added OUDSM and Oracle Directory Integration Platform in a single domain, you must stop the Admin Server and Managed Server.

- a. Stop the Oracle Directory Integration Platform Managed Server:

Unix

```
DOMAIN_HOME/bin/stopManagedWebLogic.sh
```

Windows

```
DOMAIN_HOME\bin\stopManagedWebLogic.cmd
```

- b. Stop the Oracle WebLogic Administration Server:

Unix

```
DOMAIN_HOME/bin/stopWebLogic.sh
```

Windows

```
DOMAIN_HOME\bin\stopWebLogic.cmd
```

Note:

See [Understanding the Oracle Unified Directory Installation Directories](#) to know about OUD installation directories.

Using the Oracle Patch Mechanism (Opatch)

Use OPatch to perform the necessary steps for applying a patch to an Oracle home.

Note:

You must have the latest version of Opatch (version 13.9.4.2.4) 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 with OPatch](#)

Identifying the Version of OPatch Included with Oracle Unified Directory 12c

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: 13.9.4.2.4
```

```
OPatch succeeded.
```

Applying the Bundle Patch

Unzip the patch zip file and run OPatch to apply the patch.

To apply the bundle patch, complete the following steps:

1. Unzip the patch zip file into the `PATCH_TOP`, where `PATCH_TOP` is a directory path that temporarily contains the patch for installation.

Unix

```
$ unzip -d PATCH_TOP p31400392_122140_Generic.zip
```

Windows

```
unzip -d PATCH_TOP p31400392_122140_Generic.zip
```

Note:

On Windows, the unzip command has a limitation of 256 characters in the path name. If you encounter this, use an alternate ZIP utility such as 7-Zip to unzip the patch. For example, run the following command to unzip using 7-Zip:

```
"c:\Program Files\7-Zip\7z.exe" x  
p31400392_122140_Generic.zip
```

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

Unix

```
$ cd PATCH_TOP/31400392
```

Windows

```
cd PATCH_TOP\31400392
```

3. Run OPatch to apply the patch.

Unix

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

Windows

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

ORACLE_HOME

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

After Applying the Bundle Patch

You need to perform certain tasks after applying the bundle patch.

Perform the following steps after applying the bundle patch:

1. Verify if the Oracle Unified Directory installation has been patched by running the `start-ds` command.

For example:

Unix

```
$ [ORACLE_HOME]/<dsInstanceName>/OUD/bin/start-ds -F
```

Windows

```
[ORACLE_HOME]\<dsInstanceName>\OUD\bat\start-ds.bat -F
```

Note:

OID patch version can be determined from the output, based on the values for Build ID, Platform Version and Label Identifier fields.

2. Restart all the Directory Server instances depending upon the domain configuration.

Restart Standalone Oracle Unified Directory Server

If you installed Oracle Unified Directory in a Standalone Oracle Unified Directory Server (Managed independently of WebLogic server) mode, restart all the Directory Server instances using the `start-ds` command. For example:

Unix

```
$ [ORACLE_HOME]/<dsInstanceName>/OUD/bin/start-ds
```

Windows

```
[ORACLE_HOME]\<dsInstanceName>\OUD\bat\start-ds.bat
```

Restart Collocated Oracle Unified Directory Server

If you installed Oracle Unified Directory in a Collocated Oracle Unified Directory Server (Managed through WebLogic server) mode, complete the following steps:

- a. Restart the Oracle WebLogic Administration Server.

Unix

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

Windows

```
DOMAIN_HOME\bin\startWebLogic.cmd
```

- b. Start the node manager.

Unix

```
DOMAIN_NAME/bin/startNodeManager.sh
```

Windows

```
DOMAIN_HOME\bin\startNodeManager.cmd
```

- c. Start the OUD instance by running the following command from command line interface.

Unix

```
startComponent.sh INSTANCE_NAME
```

For example:

```
DOMAIN_HOME/bin/startComponent.sh oud1
```

where `oud1` is the instance name/server name created using WLST

Windows

```
startComponent.bat INSTANCE_NAME
```

For example:

```
DOMAIN_HOME\bin\startComponent.bat oud1
```

where `oud1` is the instance name/server name created using WLST

3. If you created and configured a WebLogic domain for OUDSM then you must restart the Administration Server. Allow the application server instance to redeploy the new `oudsm.ear` file in the patch.

Note:

On WebLogic, start the Administration Server (the WebLogic domain used for OUDSM).

See OUDSM Auto Redeployment Instructions in [Documentation Updates](#).

4. If you added OUDSM and Oracle Directory Integration Platform in a single domain, you must start the Admin Server and Managed Server.

- a. Restart the Oracle WebLogic Administration Server.

Unix

```
DOMAIN_HOME/bin/startWebLogic.sh
```

Windows

```
DOMAIN_HOME\bin\startWebLogic.cmd
```

- b. Start the Oracle Directory Integration Platform Managed Server:

Unix

```
DOMAIN_HOME/bin/startManagedWebLogic.sh <wls_ods1>  
<ADMIN_SERVER_URL>
```

Windows

```
DOMAIN_HOME\bin\startManagedWebLogic.cmd <wls_ods1>  
<ADMIN_SERVER_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.

Creating the File based Access Control Log Publisher

This step is optional. You can create a File Based Access Control Log publisher for diagnosing ACI evaluation. This publisher should be disabled as soon as diagnostic is over as it impacts server performance.

Note:

Once this publisher is created, the de-installation of this patch will not be possible as the server would no longer be able to start.

To create the File Based Access Control Log publisher, a server administrator must invoke the following `dsconfig` command against a server instance that is already up and running:

```
dsconfig create-log-publisher \  
  --publisher-name "ACI logger" \  
  --type file-based-access-control \  
  --set enabled:true \  
  --set log-file:logs/acilog \  
  --hostname serverHostName --port 4444 \  
  --trustAll --bindDN cn=Directory\ Manager \  
  --
```

```
--bindPasswordFile passwordFile \  
--no-prompt
```

The following entry is created in the `config.ldif`: server configuration file:

```
dn: cn=ACI logger,cn=Loggers,cn=config  
    objectClass: ds-cfg-log-publisher  
    objectClass: ds-cfg-access-control-log-publisher  
    objectClass: ds-cfg-file-based-access-control-log-publisher  
    objectClass: top  
    ds-cfg-enabled: true  
    ds-cfg-java-class:  
org.opensds.server.loggers.accesscontrol.TextAccessControlLogPublisher  
    ds-cfg-asynchronous: true  
    cn: ACI logger  
    ds-cfg-log-file-permissions: 640  
    ds-cfg-log-file: logs/acilog
```

Removing the Bundle Patch

If you experience any problems after installing the bundle patch, you can remove the bundle patch.

Execute the following commands to remove the bundle patch:

1. Set the `ORACLE_HOME` environment variable for Oracle Middleware Home Location (Where Oracle Unified Directory is installed).

Unix

```
$ <bash> export ORACLE_HOME="Oracle Home Location"
```

Windows

```
<prompt> set ORACLE_HOME="Oracle Home Location"
```

2. Verify the OUI inventory by running the following command:

Unix

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

Windows

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

3. Run OPatch to deinstall the patch:

Unix

```
$ [ORACLE_HOME]/OPatch/opatch rollback -id 31400392
```

Windows

```
[ORACLE_HOME]\OPatch\opatch.bat rollback -id 31400392
```

4. In the case of a Directory Server instance created after the application of this patch, once the patch is removed, the instance `buildinfo` still looks like:

```
$ cat [ORACLE_HOME]/<dsInstanceName>/OUD/config/buildinfo  
12.2.1.4.200526.2005260212
```

5. The instance `buildinfo` must be manually changed back:

```
$ cp [ORACLE_HOME]/oud/config/buildinfo [ORACLE_HOME]/  
<dsInstanceName>/OUD/config/buildinfo
```

For example,

```
$ cat [ORACLE_HOME]/<dsInstanceName>/OUD/config/buildinfo  
12.2.1.4.200526.2005260212
```

6. After removing the bundle patch, start the OUD instance by running the following command:

Unix

```
$ [ORACLE_HOME]/<dsInstanceName>/OUD/bin/start-ds
```

Windows

```
[ORACLE_HOME]\<dsInstanceName>\OUD\bat\start-ds.bat
```

Resolved Issues

This section lists the issues resolved in 12c (12.2.1.4.0) Release.

- [Resolved Issues in OUD Bundle Patch \(12.2.1.4.200526\)](#)
- [Resolved Issues in OUD Bundle Patch 12.2.1.4.200204](#)

Resolved Issues in OUD Bundle Patch (12.2.1.4.200526)

The following table lists the issues resolved in OUD Bundle Patch 12.2.1.4.200526:

Table 1-1 Issues Resolved in 12c Release (12.2.1.4.200526)

Bug Number	Description
29971908	OUD 12C - DSREPLICATION STATUS IGNORES -I ADMINUID WHEN SPECIFIED VIA CLI

Table 1-1 (Cont.) Issues Resolved in 12c Release (12.2.1.4.200526)

Bug Number	Description
30668734	UNABLE TO USE UNDERSCORES IN DNS
30012998	SETTING DEPRECATED PASSWORD STORAGE SCHEME AND ADMIN PWD RESET CLEARS PWDRESET
28467589	START-DS IN DMZ SLOW
30854158	CODE CORRECTION FOR BUG 29676093
29757041	OLD 12C: DIGEST-MD5 SASL AUTH FAILS WITH LDAP 80 IF SEARCHING JOIN VIEW CONTEXT
30651541	OLD 12C - CUSTOM PASSWORD POLICY AND VALIDATOR IGNORED ON ACCOUNT CREATION
30440259	OLD INVALID PWDGRACEUSETIME ATTRIBUTE CREATED BY EUS.
30521914	AFTER INITIALIZATION THE RGW STATUS SHOWS AS "BAD DATA SET"
30534318	Fix for Bug 30534318
30534318	OLD 11G: HIGH CPU AND CAUSING LOSS OF SERVICE
29026772	ISSUE WITH FORCE-CHANGE-ON-ADD AFTER APPLYING BUNDLE PATCH 11.1.2.3.181016

Resolved Issues in OUD Bundle Patch 12.2.1.4.200204

The following table lists the issues resolved in OUD Bundle Patch 12.2.1.4.200204:

Table 1-2 Issues Resolved in OUD Bundle Patch 12.2.1.4.200204:

Bug Number	Description
30645038	OLD 12.2.1.3 JAN'20 BP - COUPLE OF NEWLY ADDED CORE-ENTRYCACHE TESTS FAILING IN FARM EXECUTION
30265103	OLD11G - BEFORE BP DS-RLIM-IDLE-TIME-LIMIT ATT. WAS IN SECS AFTER BP IS MS
30367492	UNINSTALL FAILS DUE TO RESOLVING HOST TO 0.0.0.0
29885985	OLD ALLOWS ADDING USER INTO GROUP EVEN IF USER DOESN'T EXIST WHEN RI IS ENABLED
29661762	CUSTOM PASSWORD POLICIES REQUIRE A INDIVIDUAL "PASSWORDSTORAGESCHEM"
30074000	Fix for Bug 30074000

Table 1-2 (Cont.) Issues Resolved in OUD Bundle Patch 12.2.1.4.200204:

Bug Number	Description
29682036	FORKJOIN WFE WITH LEFT-OUTER-JOIN DOES NOT WORK
28135591	UNABLE TO SPECIFY A DENIED-CLIENT HOSTNAME THAT BEGINS WITH A NUMERIC VALUE
29945677	ISMEMBEROF SUBSTRING SEARCH FILTER RETURNS NO ENTRIES
30094884	REGRESSION FOR BUG 29724794
29418242	(JE 7.0.7) ENVIRONMENT MUST BE CLOSED, CAUSED BY: COM.SLEEPYCAT.JE.THREADINTERRU

Known Issues and Workarounds

This section describes about the known issues in the current release.

Known issues and their workarounds in Oracle Unified Directory Release 12c (12.2.1.4.0) are described in the Oracle Unified Directory 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/idmrn/index.html>

For issues documented after the release of this OUD Bundle Patch Release (12.2.1.4.200526), refer to My Oracle Support Document 2602696.1 at <https://support.oracle.com>

For information about OPatch issues, see My Oracle Support and use the OPatch version provided with the product.

Documentation Updates

This section describes documentation updates for this release.

Note:

See SCIM REST API for Oracle Unified Directory and REST API for Oracle Unified Directory Data Management at the following URL: <https://docs.oracle.com/en/middleware/idm/unified-directory/12.2.1.4/oudsr/index.html> and <https://docs.oracle.com/en/middleware/idm/unified-directory/12.2.1.4/ouddr/index.html>

OUDSM Auto Redeployment Instructions

The `oudsm.ear` file is shipped along with the OUD Bundle Patch 12.2.1.4.200526 at:

```
bppatchnumber/files/oracle.idm.oud.odsm/12.2.1.4.0/  
oracle.idm.oud.odsm.symbol/odsm/oudsm.ear
```

It would be patched at the following location:

```
ORACLE_HOME/oud/odsm/oudsm.ear
```

When you restart the Server for the first time after applying the patch, it will automatically redeploy the new `oudsm.ear` file. Therefore, you might experience a slower restart of the Server. You must look at the logs related to `oudsm.ear` file deployment.

If for any reason the `oudsm.ear` file deployment fails during the first restart of the Server, then you manually need to redeploy the file.

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.

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.

Oracle® Fusion Middleware Oracle Unified Directory Bundle Patch Readme, 12c (12.2.1.4.200526)
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