

## Oracle Unified Directory Bundle Patch Readme

This document describes Bundle Patch 12.2.1.3.221009 for Oracle Unified Directory.

This document requires base installation of Oracle Unified Directory 12c (12.2.1.3.0). It includes the following sections:

- [Understanding Bundle Patches](#)
- [Bundle Patch Recommendation](#)
- [Bundle Patch Requirements](#)
- [Before Applying the Bundle Patch](#)
- [Using the Oracle Patch Mechanism \(Opatch\)](#)
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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.

- [Bundle Patch](#)
- [Interim Patch](#)
- [Patch Set](#)

## 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 13.9.4.2.7 or higher.
  1. Run `opatch version` to check if your Opatch version is earlier than 13.9.4.2.7. If so, download the latest 13.9.4.2.7 version or higher.  
See [Locating and Obtaining the Latest Version of OPatch](#) in *Patching with OPatch*.
  2. Access and log into My Oracle Support at the following location:  
<https://support.oracle.com/>
  3. In the Search Knowledge Base field, enter **2622426.1**. This is the ID of the document that describes how to get the correct OPatch.
  4. In the search results, click the link corresponding to document ID **2622426.1**.
  5. In the document, click the **Patch 28186730** link which will take you to the screen where you can obtain the OPatch 13.9.4.2.7 or higher.

- 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 (12.2.1.3.0), you must set the environment variable and stop all the Directory Server instances and domains.

 **Note:**

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

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

1. 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"
```

2. 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
```

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

- a. **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/OUd/bin/stop-ds
```

## Windows

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

### b. 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:

- i. 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
```

- ii. Stop the node manager.

#### Unix

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

#### Windows

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

- iii. Stop the Oracle WebLogic Administration Server.

#### Unix

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

#### Windows

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

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

#### Note:

This is optional only for configurations with DIP/OUDSM 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.

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

**Unix**

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

**Windows**

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

- ii. 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 13.9.4.2.7 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 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: 13.9.4.2.7
```

```
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 p34682244_122130_Generic.zip
```

## Windows

```
unzip -d PATCH_TOP p34682244_122130_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  
p34682244_122130_Generic.zip
```

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

### Unix

```
$ cd PATCH_TOP/34682244
```

### Windows

```
cd PATCH_TOP\34682244
```

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. Upgrade Oracle Unified Directory server instances that are associated with the `ORACLE_HOME` directory.

For example:

#### Unix

```
$ [ORACLE_HOME]/<OUD-Instance-Path>/OUD/bin/start-ds --upgrade
```

#### Windows

```
[ORACLE_HOME]/<OUD-Instance-Path>\OUD\bat\start-ds.bat --upgrade
```

The preceding step is executed to upgrade OUD instance according to the patched version of OUD in `ORACLE_HOME`. If `start-ds` is executed to start OUD instance without executing `start-ds --upgrade`, following message will be displayed: Instance needs to be upgraded. Please run the `start-ds` command with the option `--upgrade`

3. Start all the Directory Server instances depending upon the domain configuration.

#### Start Standalone Oracle Unified Directory Server

If you installed Oracle Unified Directory in a Standalone Oracle Unified Directory Server (Managed independently of WebLogic server) mode, start 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
```

### Start 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. Start 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

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

6. You may need to update `Config.ldif` file to remove PIN file.
  - a. The attributes `ds-cfg-key-store-pin-file`, `ds-cfg-trust-store-pin-file`, and `ds-cfg-key-pin-file` are not removed for an upgraded instance for backward compatibility. You will see a warning during upgrade process stating that those attributes are still populated. Use `dsconfig` to remove the value of the attributes after upgrade has been done successfully.
  - b. If a truststore configuration entry does not have its pin attribute populated then you will see a warning during upgrade and server startup. Use `dsconfig` to update the pin attribute with the password of the truststore to prevent those warnings.
  - c. While creating a new instance with SSL port disabled, the default configuration entry for any disabled keystore or truststore would still have attribute `ds-cfg-key-store-pin-file` populated. This can be ignored. Whenever you enable that keystore or truststore then you will have to reset the pin-file attribute. You need to provide the pin of the keystore or truststore by using the pin attribute only.

## 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.openserver.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.

 **Note:**

Before you remove the bundle patch, ensure that you shutdown Oracle Unified Directory, WebLogic Administration Server, and NodeManager. For more information, refer [Before Applying the Bundle Patch](#).

Run 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 34682244
```

**Windows**

```
[ORACLE_HOME]\OPatch\opatch.bat rollback -id 34682244
```

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
12.2.1.3.221009.2210090621
```

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  
12.2.1.3.220329.2203291213
```

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 Release.

- [Resolved Issues in OUD Bundle Patch 12.2.1.3.221009](#)
- [Resolved Issues in OUD Bundle Patch 12.2.1.3.220329](#)
- [Resolved Issues in OUD Bundle Patch 12.2.1.3.210929](#)
- [Resolved Issues in OUD Bundle Patch 12.2.1.3.210408](#)
- [Resolved Issues in OUD Bundle Patch 12.2.1.3.200827](#)
- [Resolved Issues in OUD Bundle Patch 12.2.1.3.200623](#)
- [Resolved Issues in OUD Bundle Patch 12.2.1.3.0 \(ID:191219.0108\)](#)
- [Resolved Issues in OUD Bundle Patch 12.2.1.3.0 \(ID:190522.0537\)](#)
- [Resolved Issues in OUD Bundle Patch 12.2.1.3.0 \(ID:180829.0419\)](#)
- [Resolved Issues in OUD Bundle Patch 12.2.1.3.0 \(ID:180626.0326\)](#)
- [Resolved Issues in OUD Bundle Patch 12.2.1.3.0 \(ID:180322.2306\)](#)

## Resolved Issues in OUD Bundle Patch 12.2.1.3.221009

The following table lists the issues resolved in OUD Bundle Patch 12.2.1.3.221009:

**Table 1-1 Issues Resolved in OUD Bundle Patch 12.2.1.3.221009**

Bug Number	Description
34143081	OUDSM IS NOT ALLOWING TO CREATE ATTRIBUTE WITH UNDERSCORE ('_') CHARACTER
34249006	"SIGNED " VERSION OF THE OIDPWDCN.DLL FOR ORACLE UNIFIED DIRECTORY
33806327	OID 12.2.1.4.211008 TAKES A LONG TIME TO DELETE A OBJECTCLASS=LDAPSUBENTRY ENTRY
33886328	OID REPLICATION GATEWAY ADMIN-BACEND.LDIF DISAPEARED
33434640	NULLPOINTEREXCEPTION DURING BINDOPERATION
33438452	USING LOG-CONNECTION-DETAILS ENABLED THROWS NULLPOINTER
33690183	HIGH RESPONSE TIME AND CONCURRENTMODIFICATIONEXCEPTION ON OUD PROXY SERVER
33359196	FORK JOIN WFE WITH LEFT-OUTER JOIN ISSUE
33690457	DELETED VALUES REAPPEAR IN MULTIVALUED ATTRIBUTE IN A REPLICATED OUD
33811580	DEFINED VIRTUAL ATTRIBUTES NOT INHERITED BY GROUP-DN

## Resolved Issues in OUD Bundle Patch 12.2.1.3.220329

The following table lists the issues resolved in OUD Bundle Patch 12.2.1.3.220329:

**Table 1-2 Issues Resolved in OUD Bundle Patch 12.2.1.3.220329**

Bug Number	Description
28311056	ADD CONFIGURABLE SEARCHCOUNTLIMIT PARAMETER IN OUD PROXY
31087872	FIX for BUG 31087872
32283362	OID DOES NOT RESPECT SIZE LIMITS WHEN USING PROXY AUTHORIZATION
32656018	--PROPERTIESFILEPATH" IS NOT WORKING WITH OUD STATUS COMMAND
32576057	OID 12C USER PASSWORD POLICY ATTRIBUTES NOT REMOVED FROM UNTRUSTED REPLICA

**Table 1-2 (Cont.) Issues Resolved in OUD Bundle Patch 12.2.1.3.220329**

<b>Bug Number</b>	<b>Description</b>
33377025	MODIFICATIONS RESULTS IN 2 PWDFailureTime attributes while replication works.
32577340	OU - Updates to schema not being written out to 99user.ldif
33276603	OU 12.2.1.4 Replication Gateway replicating incomplete tombstones from ODSEE 11
33277588	CREATE-PASSWORD-VALIDATOR --TYPE CHARACTER-SET displays an extra character when and excluded character is encountered
33517788	OU12C: ISMEMBEROF filter does not work as expected
33521773	AD extension down after applying the latest OUD BP 33448950 12.2.1.4.211008

## Resolved Issues in OUD Bundle Patch 12.2.1.3.210929

The following table lists the issues resolved in OUD Bundle Patch 12.2.1.3.210929:

**Table 1-3 Issues Resolved in OUD Bundle Patch 12.2.1.3.210929**

<b>Bug Number</b>	<b>Description</b>
32643974	OU 12C ACI not evaluated properly w/SASL external and OBJECTCLASS=GROUPOFURLS
33340220	OU 12CPS4 OCT'21 BP - DSREPLICATION enable failing with new LISTENADDRESS1 parameter
26965203	Binary attribute cannot be updated and added as new same name attribute
33055228	Replication NullPointerException caused by CONFLICTS-HISTORICAL-PURGE-DELAY and REPLICATION-PURGE-DELAY
32288501	OU Proxy- Load Balancing algorithm not detecting disabled backends
32488611	"LOG-CONNECTION-DETAILS" enabled throws "NullPointerException"
32440224	LAST-LOGIN-TIME for replicated servers located in different timezones



**Table 1-3 (Cont.) Issues Resolved in OUD Bundle Patch 12.2.1.3.210929**

Bug Number	Description
32477736	REPLICATION INITIALIZE FAILS ON BASE DN CONTAINING SLASH CHAR
32690984	CERTIFICATES GET CORRUPTED THROUGH THE REPLICATION GATEWAY:ODSEE-LOUD 12.2.1.4
32441706	LOUD12.2.1.4.0:PASSWORD POLICY ALLOWING TO RE-USE OLD PASSWORDS STORED IN PWDHIST
32968947	LOUD KERBEROS PTA /TMP FILE JAASXXXXXXXXXXXXXXXXXXXXX.CONF
32130922	LOUD 12C FORKJOIN LDAPSEARCH FAILS WITH COMPLEX FILTER
29530047	PASSWORD VISIBLE IN ACCESS LOG OF FOR DB WORKFLOWS
32038977	LOUD REPLICATION STOPPED WHILE BATCH DELETING WITH MANAGEDSAIT CONTROL
31661241	NEED TO DEFINE LISTEN-ADDRESS FOR REPLICATION SERVER

## Resolved Issues in OUD Bundle Patch 12.2.1.3.210408

The following table lists the issues resolved in OUD Bundle Patch 12.2.1.3.210408:

**Table 1-4 Issues Resolved in OUD Bundle Patch 12.2.1.3.210408**

Bug Number	Description
32562107	ODSEE-LOUD 12.2.1.4 CERTIFICATES GET CORRUPTED THROUGH THE REPLICATION GATEWAY
31851470	LOUD 12C: ISMEMBER SEARCH RECEIVES STACKOVERFLOWERROR
31745920	LOUD UNION PROXY SEARCHES RECEIVE A RESULT=4 WHEN PAGE-SIZE=0 FOR WFE
30513440	SUPPORT PASSWORD VALIDATORS AND GENERATORS IN SUBENTRY PASSWORD POLICY
32208265	CRYPTO MANAGER ORDERS CIPHERS ALPHABETICALLY (DIFFERENT THEN OTHER SSL HANDLERS)
32065140	REPLICATION IGNORES SCHEMA VIOLATION
31546491	CPU SPIKES AND UTILIZATION RESULTING IN TIMETHREAD ERROR

**Table 1-4 (Cont.) Issues Resolved in OUD Bundle Patch 12.2.1.3.210408**

Bug Number	Description
31878749	STACKING TRANSFORMATIONS MODIFY OPERATION FAILS
31931564	OU 12C - LOG-CONNECTION-DETAILS CONFIG INCORRECTLY SHOWING IN FILE BASED AUDIT LOGGER MENU
32019006	SUPPORTING PWDMINLENGTH IN PASSWORD POLICY AT SUBENTRY LEVEL
30666508	NPE WHEN EXECUTING LDAPSEARCH ON OUD PROXY WITH PAGESIZE SET IN LDAPSERVEREXTENSION
31666925	THE OUD-SETUP SCRIPT DOES NOT RECOGNIZE A EXABYTE FS
27028740	UNIT TEST FAILURES RELATED TO PASSWORD
26098635	CAN NOT SYNC THE USER ENTRY PASSWORD FROM OUD TO AD BY ODIP

## Resolved Issues in OUD Bundle Patch 12.2.1.3.200827

The following table lists the issues resolved in OUD Bundle Patch 12.2.1.3.200827:

**Table 1-5 Issues Resolved in OUD Bundle Patch 12.2.1.3.200827**

Bug Number	Description
28401694	ADD OPTION FOR ADDITIONAL BINDDN, CLIENTIP, AND PROTOCOL TO LOGGERS
29359582	STATUS COMMAND DOESN'T WORK WITH OUD 19C INSTALL
30403293	CANNOT UPGRADE 11G BECAUSE OF THE "DS-CFG-FETCH-AUTHENTICATED-USER" PROPERTY
30832284	OU 12C VIRTUAL ATTRIBUTE SUB CONTAINER PASSWORD POLICY INCONSISTENTLY APPLIED
30871004	OU 12.2.1.4 RETURN-BIND-ERROR-MESSAGES=TRUE NOT WORKING
30963266	OU 12C PASSWORD INVALID WHEN USING BRACE SPECIAL CHARACTER
31013245	ER OUD - S_CONN VALUES IN PROXY ACCESS LOGS SHOULD SHOW HOSTNAME OF DS SERVER
31239817	UNION WF DOES NOT SHOW OUTPUT IN DATA BROWSER TAB OF OUDSM

**Table 1-5 (Cont.) Issues Resolved in OUD Bundle Patch 12.2.1.3.200827**

Bug Number	Description
31246776	OULD12CPS4: COMPLEX QUERIES USING NONEXISTING GROUP MEMBERSHIP RETURN ALL USERS
31336975	UNABLE TO ADD OR MODIFY OBJECT CLASSES AND ATTRIBUTES TO OUD 12C PS4
31377876	REBUILD-INDEX DISABLES BACKEND WHEN USING MIXED DEFINED/NOTDEFINED ATTRIBUTES
31490532	OULD 12CPS4 JULY2020 BP - UPGRADE OF 12CPS3JULY'20 BP OUD DS INSTANCE TO 12CPS4JULY'20 BP IS FAILING

## Resolved Issues in OUD Bundle Patch 12.2.1.3.200623

The following table lists the issues resolved in OUD Bundle Patch 12.2.1.3.200623:

**Table 1-6 Issues Resolved in OUD Bundle Patch 12.2.1.3.200623**

Bug Number	Description
29971908	OULD 12C - DSREPLICATION STATUS IGNORES -I ADMINUID WHEN SPECIFIED VIA CLI
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	OULD 12C: DIGEST-MD5 SASL AUTH FAILS WITH LDAP 80 IF SEARCHING JOIN VIEW CONTEXT
30651541	OULD 12C - CUSTOM PASSWORD POLICY AND VALIDATOR IGNORED ON ACCOUNT CREATION
30440259	OULD INVALID PWDGRACEUSETIME ATTRIBUTE CREATED BY EUS.
30521914	AFTER INITIALIZATION THE RGW STATUS SHOWS AS "BAD DATA SET"
30534318	Fix for Bug 30534318
27137959	DSREPLICATION PURGE-HISTORICAL COMMAND TIMES OUT
29418242	(JE 7.0.7) ENVIRONMENT MUST BE CLOSED, CAUSED BY: COM.SLEEPYCAT.JE.THREADINTERRU

## Resolved Issues in OUD Bundle Patch 12.2.1.3.0 (ID:191219.0108)

The following table lists the issues resolved in OUD Bundle Patch 12.2.1.3.0 (ID:191219.0108):

**Table 1-7 Issues Resolved in 12.2.1.3.0 (ID:191219.0108)**

Bug Number	Description
30265103	OUD11G - BEFORE BP DS-RLIM-IDLE-TIME-LIMIT ATT. WAS IN SECS AFTER BP IS MS
22450210	GATEWAY: REPLICATION BROKEN MORE OFTEN THAN NOT
29682036	FORKJOIN WFE WITH LEFT-OUTER-JOIN DOES NOT WORK
28781040	FORKJOIN COMPLEX FILTER SPLITTED AS FILTER="(&)"
29885985	OUD ALLOWS ADDING USER INTO GROUP EVEN IF USER DOESN'T EXIST WHEN RI IS ENABLED
30386441	(JE 7.0.7) INTERRUPTEDEXCEPTION MAY CAUSE INCORRECT INTERNAL STATE
30094884	REGRESSION FOR BUG 29724794
29945677	ISMEMBEROF SUBSTRING SEARCH FILTER RETURNS NO ENTRIES
28135591	UNABLE TO SPECIFY A DENIED-CLIENT HOSTNAME THAT BEGINS WITH A NUMERIC VALUE
29661762	CUSTOM PASSWORD POLICIES REQUIRE A INDIVIDUAL "PASSWORDSTORAGESCHEME"
29848584	OUD 11G: HIGH CPU AND CAUSING LOSS OF SERVICE
29868285	OUDSM CRASHES WHEN ACCESSING CORE CONFIG, WITH LATEST BP 28569189
30645038	COUPLE OF NEWLY ADDED CORE-ENTRYCACHE TESTS FAILING IN FARM EXECUTION
30074000	Fix for Bug 30074000

## Resolved Issues in OUD Bundle Patch 12.2.1.3.0 (ID:190522.0537)

The following table lists the issues resolved in OUD Bundle Patch 12.2.1.3.0 (ID:190522.0537):

**Table 1-8 Issues Resolved in OUD Bundle Patch 12.2.1.3.0 (ID:190522.0537)**

<b>Bug Number</b>	<b>Description</b>
29376960	OULD12C: PROXY USING FORK JOIN HAVE QUERIES WITH RESULT=32
29026772	ISSUE WITH FORCE-CHANGE-ON-ADD AFTER APPLYING BUNDLE PATCH 11.1.2.3.181016
29143490	AFTER UPGRADE FROM OUD 11G TO OUD 12C PASSWORD VALIDATOR MANGELED
27911963	ODSM ORACLEJSP ERROR: JAVA.IO.FILENOTFOUNDEXCEPTION
29320825	PASSWORD REHASH NOT WORKING AFTER APPLYING PATCH 28817042
25633930	FMW_DIAG_IMPROVEMENT - HANDLING EMPTY CATCH BLOCKS IN ADMIN, BACKEND & CORE
28650524	UNEXPECTED ERROR DURING THE INITIALIZATION OF SUFFIX
28507697	RDBMS WFE CANNOT ACCESS TABLE FROM DIFFERENT SCHEMA
28564137	ODSM IS VERY SLOW WITH A LARGE NUMBER OF BACKENDS
28636130	IMPORT-LDIF REJECTS TOMBSTONE ENTRIES WITH PARENT NO FOUND ERROR
26773404	ACI ISSUE WITH PTA KERBEROS TO AD
28433125	SIMPLE COMPLEX SEARCH FILTER USING ISMEMBEROF INCORRECTLY RETURNS NO ENTRIES
27266700	USERCERTIFICATE ATTRIBUTE DISPLAYED AS BINARY IN ODSM
27601364	ACCOUNT STATUS NOTIFICATION ARE NOT LOGGED IN ERROR FILE

### Resolved Issues in OUD Bundle Patch 12.2.1.3.0 (ID:180829.0419)

The following table lists the issues resolved in OUD Bundle Patch 12.2.1.3.0 (ID:180829.0419):

**Table 1-9 Issues Resolved in OUD Bundle Patch 12.2.1.3.0 (ID:180829.0419)**

<b>Bug Number</b>	<b>Description</b>
27847613	CHANGING MULTIPLE-VALUES PASSWORD POLICY WITH 2 STORAGE SCHEME FAILS
28017604	OUD PROXY NON-RETRIEVABLE ATTRIBUTES FOR OPERATIONAL ATTRIBUTES NOT WORKING
28130109	BINDING AS SECONDARY PARTICIPANT USER FAILS AGAINST FORKJOIN CONFIGURATION
27745214	OUDSM 12C - EUS INFORMATION ARE NOT DISPLAYED
27804567	OAM NOT ABLE TO AUTHENTICATE TO OUD 12C PROXY USING RDBMS
27032565	APPENDING DATA VIA IMPORT-LDIF CAUSES ACI PRIVILEGE TO BE LOST
27752576	EUS WITH DB12CR2 OUD12C PROXY AND NOVELL NOT WORKING: ORA-28274
28052332	OUD 12C FORK JOIN SECONDARY PARTICIPANT ISSUE WITH LDAPSEARCH FILTER
27030137	DIAG - AUDIT LOG TO STORE MODIFIERSNAME AND MODIFYTIMESTAMP.
21839259	LDAPSEARCHES RESULT NOT AS EXPECTED WHEN USING MEMBER IN NUMERIC FORMAT
27940182	OUD 12C STATIC/VIRTUAL STATIC GROUP MEMBERSHIP CROSS REFERENCE AMONG SUFFIXES
20033750	ODSM: REPL MANAGER: AUTO REFRESH DOESN'T TAKE INTO ACCOUNT REPL GROUP SETTING

## Resolved Issues in OUD Bundle Patch 12.2.1.3.0 (ID:180626.0326)

The following table lists the issues resolved in OUD Bundle Patch 12.2.1.3.0 (ID:180626.0326)

**Table 1-10 Issues Resolved in OUD Bundle Patch 12.2.1.3.0 (ID:180626.0326)**

Bug Number	Description
28074093	ONE OFF BUILD FAILED FOR PLATFORM_VERSION IN 12C APRIL BP
27689317	LDAPSEARCH WITH DYNAMICALLY LINKED USER AS UNIQUE MEMBER DOES NOT DISPLAY DESCR
27782271	HIGHLY COMPLEX SEARCH FILTERS DO NOT RETURN RESULTS AND SLOW DOWN SERVER
27822171	PATCH 27782271 WORKS ONLY UPTO 100 NESTED FILTERS
27538880	OUD APRIL'18 BP ( 27491238) ISSUE
27460616	OUD RETURNS A ROOT DSE ENTRY OF A REMOTE LDAP SERVER AS ITS OWN ROOT DSE ENTRY
27768179	ROUTINE RESTART OF OUD SERVER MAKES OUD UNRESPONSIVE
27585207	ERROR WHEN CHECKING THE COMPATIBILITY OF THE DSEE CONSUMER
27309834	REBUILD-ALL INDEXES IN BETWEEN THE DELETE AND THE PURGE RESULT TOMBSTONES ISSUE
27195037	REPLICATION INFO MISSING ON ODSM REPLICATION TOPOLOGY TAB WHEN REPLICA OFFLINE
26828546	OUD   ORCLSOURCEMODIFYTIMESTAMP ATTRIBUTE ALLOWS DUPLICATE ENTRIES
27151076	REGRESSSION OF UPDATES ON SINGLE VALUED ATTRIBUTES ARE NOT REPLICATED PROPERLY
27147081	OUD USER RESOURCE LIMITS NOT ENFORCED ON SEARCHES USING PROXY-AUTH
27116703	OUD SERVER IN DIFFERENT LOCATIONS-REMOTE HOST CLOSED CONNECTION DURING HANDSHAKE
26969822	STOP-DS SLOW WHEN REPLICATION IS ENABLED

## Resolved Issues in OUD Bundle Patch 12.2.1.3.0 (ID:180322.2306)

The following table lists the issues resolved in OUD Bundle Patch 12.2.1.3.0 (ID:180322.2306):

**Table 1-11 Issues Resolved in OUD Bundle Patch 12.2.1.3.0 (ID:180322.2306)**

<b>Bug Number</b>	<b>Description</b>
27337656	OVD OBJECTCLASS MAPPER PLUGIN IN OUD
27027834	SUPPORT COMPLEX FILTER FOR TOKENIZE-ATTRIBUTE TRANSFORMATION
26616633	FMW_DIAG_IMPROVEMENT - HANDLING EMPTY CATCH BLOCKS IN WORKFLOWELEMENT
26579516	LDIF IMPORT VIA ODSM CONSOLE SHOWING INCORRECT STATUS
25556682	FMW_DIAG_IMPROVEMENT - HANDLING EMPTY CATCH BLOCKS IN REPLICATION
27337538	SAML XASP PLUGIN THROUGH OUD
26878832	ISMEMBEROF QUERY SLOW FOR COMPLEX SEARCHES INVOLVING STATIC GROUPS
27036003	ODE CORRECTION ON THE TRANSACTION OF BASE BUG 26828755
27337446	COORDINATORADAPTER THROUGH UNION WFE IN OUD
27337617	DYNAMICGROUPS PLUGIN THROUGH OUD
26557145	DEBUG WARNING LOG MESSAGE IS REQUIRED TO HELP DEBUGGING
26389404	REPLICATION EXIT WITHOUT WRITING ANY LOG IN DEBUG LOG WHEN ENTRYUUID NOT FOUND
26051378	PWDRESET FLAG DOES NOT SYNC PROPERLY BETWEEN REPLICATED OUD SERVERS
25659967	OUD DELETED REFERENCE ENTRIES ARE NOT REPLICATING TO OTHER SERVERS
24912151	REPLICATION OUT OF SYNC AT ATTRIBUTE LEVEL AFTER STRESS TEST
26651161	DPS2OUD FAILS WITH ERROR "FATAL ERROR DURING THE PROCESSING OF THE DPS CONFIG"
25543336	OUD PROXY DOESN'T RETURN AD ENTRIES WITH DUPLICATE DSCOREPROPAGATIONDATA
26397668	OUD SEARCH BEHAVIOR WITH WHITESPACE AND WILDCARD (*) IN THE SEARCH FILTER
25524876	USERCERTIFICATE;BINARY ATTRIBUTE IS NOT SHOWED RIGHT



**Table 1-11 (Cont.) Issues Resolved in OUD Bundle Patch 12.2.1.3.0 (ID:180322.2306)**

Bug Number	Description
27421407	LDAPSEARCH RESULTS IN DIFFERENT ATTRIBUTES RETURNED BY LDAPSEARCH WRT OVD
27638073	UNION LDAPSEARCH WITH SEARCHFIRSTMATCH TRUE AUTOTUNESEARCHOPTION TRUE FAILS
27621150	OBJECTCLASS MAPPER TRANSFO:FILTER-ATTRIBUTE NOT APPLIED FOR LDAPSEARCH,COMPARE
27567476	LDAPSEARCH WITH DYNAMIC GROUPS PLUGIN CHANGES CASE OF O IN OUD OVD RETAINS IT
27499608	LDAPSEARCH ISSUES WITH DYNAMIC GROUPS PLUGIN
27716604	OUD 12C APR'18 BP - DIFS OBSERVED IN DYNAMIC GROUPS PLUGIN TESTING.
27456961	LDAPSEARCH WITH ANONYMOUS ACCESS NEEDS TO DISPLAY NO ENTRY WITH SAML XASP PLUGIN
27428553	LDAPSEARCH IN OUD DOES NOT RETURN RESULTS WITHOUT OBJECTCLASS IN FILTER
27537121	LDAPSEARCH WITH FETCH-BOTH-STATIC-DYNAMIC DOES NOT WORK FOR DYNAMIC GRP PLUGIN
27622404	TOKENIZE ATTRIBUTE TRANSFORMATION - LDAPSEARCH RETURNS INVALID RESULTS
27451993	LDAPSEARCH RETURNS ALL ATTRIBUTES REGARDLESS OF ATTRIBUTE NAME IN SEARCH CRITERI

## Known Issues and Workarounds

For known issues and workarounds, log in to [My Oracle Support](#), and then search for 2568304.1, which is the ID of the document, *Oracle Fusion Middleware 12.2.1.3.0 Known Issues*.

For Known Issues specific to Oracle Unified Directory Bundle Patches, search for Doc ID 2378916.1 in [My Oracle Support](#).

For information about OPatch issues, log in to [My Oracle Support](#) and use the OPatch version provided with the product.

# Documentation Updates

This section describes documentation updates for this release.

## Note:

Refer [Admin REST APIs for Oracle Unified Directory](#).

## OUDSM Auto Redeployment Instructions

The `oudsm.ear` file is shipped along with the OUD bundle patch.

```
(bpatchnumber/files/oracle.idm.oud.odsm/12.2.1.3.0/  
oracle.idm.oud.odsm.symbol/odsm/oudsm.ear)
```

A new `oudsm.ear` file is included with OUD Bundle Patch 12.2.1.3.221009 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.

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Oracle Fusion Middleware Oracle Unified Directory Bundle Patch Readme, 12.2.1.3.221009  
F70495-01

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