Oracle® Fusion Middleware

Oracle Access Management Bundle Patch Readme

OAM Bundle Patch 12.2.1.4.191223 Generic for all Server Platforms

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Oracle Access Management Bundle Patch Readme

This document describes OAM Bundle Patch 12.2.1.4.191223.

This document requires a base installation of Oracle Access Management 12c Patch Set 4 (12.2.1.4.0). This supersedes the documentation that accompanies Oracle Access Management 12c Patch Set 4 (12.2.1.4.0), it contains the following sections:

- Understanding Bundle Patches
- Recommendations
- Bundle Patch Requirements
- Applying the Bundle Patch
- · Removing the Bundle Patch
- Resolved Issues
- Known Issues and Workarounds

Understanding Bundle Patches

Describes Bundle Patches and explains differences between Bundle Patches, interim patches, and patch sets.

- Bundle Patch
- Patch Set

Bundle Patch

A bundle patch is an official Oracle patch for Oracle Fusion Middleware components on baseline platforms. 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.

Each Bundle Patch is cumulative: the latest Bundle Patch includes all fixes in earlier Bundle Patches for the same release and platform. Fixes delivered in Bundle Patches are rolled into the next release.

Patch Set

A patch set is a mechanism for delivering fully tested and integrated product fixes that can be applied to installed components of the same release. Patch sets include all of the fixes available in previous Bundle Patches for the release. A patch set can also 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 the patch set have been tested and are 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 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 under this new section

Bundle Patch Requirements

To remain in an Oracle-supported state, apply the Bundle Patch to all installed components for which packages are provided. Oracle recommends that you:

- 1. Apply the latest Bundle Patch to all installed components in the bundle.
- 2. Keep OAM Server components at the same (or higher) Bundle Patch level as installed WebGates of the same release.

Applying the Bundle Patch



The following topics helps you, as you prepare and install the Bundle Patch files (or as you remove a Bundle Patch should you need to revert to your original installation):

- Using the Oracle Patch Mechansim (Opatch)
- Applying the OAM Bundle Patch
- Recovering From a Failed Bundle Patch Application



Oracle recommends that you always install the latest Bundle Patch.

Using the Oracle Patch Mechanism (Opatch)

The Oracle patch mechanism (Opatch) is a Java-based utility that runs on all supported operating systems. Opatch requires installation of the Oracle Universal Installer.

Note:

Oracle recommends that you have the latest version of Opatch (version 13.9.4.2 or higher) from My Oracle Support. Opatch requires access to a valid Oracle Universal Installer (OUI) Inventory to apply patches.

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: <code>\$ORACLE_HOME/OPatch/opatch</code>

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 needs to be running. The Machine Name & Listen Address can be blank on a default install.

See Also:

Oracle Universal Installer and Opatch User's Guide



Perform the steps in the following procedure to prepare your environment and download Opatch:

- Log in to My Oracle Support: https://support.oracle.com/
- Download the required Opatch version.
- Use opatch -version to check if your Opatch version is earlier than 13.9.4.2.1. If so, download the latest 13.9.4.2.1 version.
- Confirm if the required executables opatch and unzip are available in your system by running the following commands:

Run which opatch — to get path of opatch

Run which unzip— to get path of unzip

Check if the path of excecutables is in the environment variable "PATH", if not add the paths to the system PATH.

Verify the OUI Inventory using the following command:

opatch lsinventory

Windows 64-bit: opatch lsinventory -jdk c:\jdk180

If an error occurs, contact Oracle Support to validate and verify the inventory setup before proceeding. If the <code>ORACLE_HOME</code> does not appear, it might be missing from the Central Inventory, or the Central Inventory itself could be missing or corrupted.

Review information in the next topic Applying the OAM Bundle Patch

Applying the OAM Bundle Patch

Use information and steps here to apply the Bundle Patch from any platform using Oracle patch (Opatch). While individual command syntax might differ depending on your platform, the overall procedure is platform agnostic.

The files in each Bundle Patch are installed into the destination \$ORACLE_HOME. This enables you to remove (roll back) the Bundle Patch even if you have deleted the original Bundle Patch files from the temporary directory you created.



Oracle recommends that you back up the \$ORACLE_HOME using your preferred method before any patch operation. You can use any method (zip, cp -r, tar, and cpio) to compress the \$ORACLE HOME.

Formatting constraints in this document might force some sample text lines to wrap around. These line wraps should be ignored.

To apply the OAM Bundle Patch

Opatch is accessible at <code>\$ORACLE_HOME/OPatch/opatch</code>. Before beginning the procedure to apply the Bundle Patch be sure to:



Set ORACLE_HOME

For example:

export ORACLE_HOME=/opt/oracle/mwhome

• Run export PATH=<<Path of Opatch directory>>:\$PATH to ensure that the Opatch executables appear in the system PATH. For example:

export PATH=\$Oracle_HOME/OPatch:\$PATH

- 1. Download the OAM patch p30694978_122140_Generic.zip
- 2. Unzip the patch zip file into the PATCH TOP.

\$ unzip -d PATCH_TOP p30694978_122140_Generic.zip



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: To unzip using 7-Zip, run the following command.

"c:\Program Files\7-Zip\7z.exe" x p30694978_122140_Generic.zip

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

\$ cd PATCH TOP/30694978

- 4. Log in as the same user who installed the base product and:
 - Stop the AdminServer and all OAM Servers to which you will apply this Bundle Patch.

Any application that uses this OAM Server and any OAM-protected servers will not be accessible during this period.

- Back up your \$ORACLE_HOME: MW_HOME.
- Move the backup directory to another location and record this so you can locate it later, if needed.
- 5. Run the appropriate Opatch command as an administrator to ensure the required permissions are granted to update the central inventory and apply the patch to your \$ORACLE_HOME. For example:

opatch apply

Windows 64-bit: opatch apply -jdk c:\path\to\jdk180

Note:

Opatch operates on one instance at a time. If you have multiple instances, you must repeat these steps for each instance.

6. Start all Servers (AdminServer and all OAM Servers).

Recovering From a Failed Bundle Patch Application

If the AdminServer does not start successfully, the Bundle Patch application has failed.

To recover from a failed Bundle Patch application

- 1. Confirm that there are no configuration issues with your patch application.
- Confirm that you can start the AdminServer successfully.
- 3. Shut down the AdminServer and roll back the patch as described in Removing the Bundle Patch then perform patch application again.

Removing the Bundle Patch

If you want to rollback a Bundle Patch after it has been applied, perform the following steps. While individual command syntax might differ depending on your platform, the overall procedure is the same. After the Bundle Patch is removed, the system is restored to the state it was in immediately before patching.

Note:

- Removing a Bundle Patch overrides any manual configuration changes that were made after applying the Bundle Patch. These changes must be re-applied manually after removing the patch.
- Use Opatch 13.9.4.2.1 for rollback. If older versions of the Opatch is used for rollback, the following fail message is displayed:

```
C:\Users\<username>\Downloads\p30694978_122140_Generic\30694
978
>c:\Oracle\oam12214\OPatch\opatch rollback -id 30694978
Oracle Interim Patch Installer version 13.9.2.0.0
Copyright (c) 2020, Oracle Corporation. All rights reserved.
.....
The following actions have failed:
Malformed \uxxxx encoding.
Malformed \uxxxx encoding.
```

Follow these instructions to remove the Bundle Patch on any system.

To remove a Bundle Patch on any system



- Perform steps in Applying the OAM Bundle Patch to set environment variables, verify the inventory, and shut down any services running from the ORACLE_HOME or host machine.
- Change to the directory where the patch was unzipped. For example:cd PATCH_TOP/30694978
- 3. Back up the ORACLE_HOME directory that includes the Bundle Patch and move the backup to another location so you can locate it later.
- 4. Run Opatch to roll back the patch. For example:

opatch rollback -id 30694978

- Start the servers (AdminServer and all OAM Servers) based on the mode you are using.
- 6. Re-apply the Bundle Patch, if needed, as described in Applying the Bundle Patch.

Resolved Issues

This chapter describes resolved issues in this Bundle Patch.

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

Resolved Issues in OAM Bundle Patch 12.2.1.4.191223

Resolved Issues in OAM Bundle Patch 12.2.1.4.191223

Applying this bundle patch resolves the issues listed in the following table:

Table 1-1 Resolved Issues in OAM Bundle Patch 12.2.1.4.191223

Base Bug Number	Description of the Problem
26679791	FIX FOR BUG 25898731 IS FAILING IN OAM 11.1.2.3.171017BP 26540179
30389257	TWO FACTOR AUTHENTICATION ENTRY TEXTBOX DOES NOT GAIN FOCUS
30311080	OIGOAMINTEGRATION.SH - CONFIGURESSOINTEGRATION THROWS UNMARSHAL EXCEPTION IN FRESH 12CPS4 ENV
30156706	OAM ADMIN SERVER START FAILS DUE TO FAIL TO CREATE OAM-CONFIG.XML FROM DBSTORE
29771448	% CHAR IN PASSWORD USED TO GENERATE OAUTH ACCESS TOKEN IS TRANSLATED TO ASCII
30144617	ISSUE ON CHANGE IN BEHAVIOR IN RETURNING ERRORCODE AFTER APPLYING PATCH 29918603
29482858	OAM 11G ASDK INTERMITTENTLY THROWING ERROR WHILE CREATING OBSSOCOOKIE
29541818	ER TO ADDRESSING ADDITIONAL USE CASES OF OAUTH AND JSON IN OAM 12C



Table 1-1 (Cont.) Resolved Issues in OAM Bundle Patch 12.2.1.4.191223

Base Bug Number	Description of the Problem
29837657	OAM DOES SUBTREE SEARCH TO VALIDATE IDSTORE CREATION
29290091	WRONG SELECT IN ADMIN STARTUP LOGS
30156607	DIAG: ADD MORE LOGS IN AMKEYSTORE VALIDATION FLOW TO IDENTIFY CONFIG THAT CAUSES TO FAIL TO START ADMIN SERVER
30243111	DIAG: REQUIRE LOGS IN DEFAULT KEYSTORE BOOTSTRAPPING FLOW TO IDENTIFY CONFIG MISSING/CORRUPTION ISSUE
30180492	OCI FEDERATION WITH ORACLE ACCESS MANAGER IS NOT WORKING AS EXPECTED
30363797	OAM11GR2PS3 : WNA_DCC MODULE IS FAILING WITH SECURITY BUG FIX :25963019
29649734	12.2.1.3.180904 (BP04) ACCESS SERVER RETURNS JSON KEY AND NOT P7B LIKE DOCUMENT
30062772	FEDERATION BP18 CAUSES LOGOUT END_URL TO BE CONVERTED TO LOWER CASE IN FED LOGOU
30176378	ERRORS IN OAM SERVER LOGS AFTER RUNNING WLST COMMAND DISABLESKIPAUTHNRULEEVAL()
30267123	UNABLE TO LOGIN FROM MULTIPLE TABS AFTER LOGGING IN FROM A TAB.

Known Issues and Workarounds

For known issues and workarounds refer to My Oracle Support Document 2602696.1 at https://support.oracle.com

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