

Oracle Access Management Webgate Bundle Patch Readme

This document describes the bug fixes that are included with Bundle Patch 12.2.1.4.210816.

The Bundle Patch requires a base installation of Oracle Access Management Webgate 12c (12.2.1.4.0). This document supersedes the documentation that accompanies Oracle Access Management 12c (12.2.1.4.0), and earlier documents if any. This document contains the following sections:

- [New Features and Enhancements in OAM Bundle Patch 12.2.1.4.210816](#)
- [Understanding the Webgate Bundle Patch](#)
- [WebGate Bundle Patch Requirements](#)
- [Before Installing this WebGate Bundle Patch](#)
- [Installing and Removing the Webgate Bundle Patch](#)
- [Resolved Issues](#)
- [Known Issues](#)
- [Documentation](#)
- [Documentation Accessibility](#)

New Features and Enhancements in OAM Bundle Patch 12.2.1.4.210816

Oracle Access Management 12.2.1.4.210816 BP includes the following new features and enhancements:

- **Two-way SSL for OAP over REST Communication.**

You can enable mutual authentication for OAP over REST between WebGate and OAM Server, therefore ensuring that the Server communicates with authentic clients.

For details, see [Enabling two-way SSL for OAP over REST](#)

Understanding the Webgate Bundle Patch

Describes Bundle Patches and explains differences between Bundle Patches, patch set exceptions (also known as one-offs), and patch sets.

Topics

- [WebGate Bundle Patch Introduction](#)

WebGate Bundle Patch Introduction

A bundle patch is an official Oracle patch for Oracle Access Management 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.

Bundle patches are released on a regular basis and are available on My Oracle Support (formerly Oracle MetaLink).

Note:

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

Table 1-1 Bundle Patches versus Patch Sets

Mechanism	Description
Bundle Patch	<p>A bundle patch is an official Oracle patch mechanism for Access Manager components on baseline platforms. Each bundle patch includes the libraries and files that have been rebuilt to implement one or more fixes.</p> <p>This bundle patch must be applied to Access Manager 12.2.1.4.0 WebGates.</p> <p>See Also: Before Installing this WebGate Bundle Patch</p>
Patch Set	<p>All of the fixes in the patch set have been tested and are certified to work with one another on the specified platforms.</p> <p>Each patch set provides 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.</p>

WebGate Bundle Patch Requirements

Requirements for this WebGate release are discussed in the following topics:

- [WebGate Bundle Patch 12.2.1.4.210816](#)
- [Bundle Patch Recommendations](#)

WebGate Bundle Patch 12.2.1.4.210816

Oracle Access Manager 12c Release (12.2.1.4.0) WebGates are the required base for WebGate Bundle Patch 12.2.1.4.210816



See Also:

[Certification Documentation](#) for details about certification, installers, and downloads.

Bundle Patch Recommendations

Oracle recommends that you apply the WebGate bundle patch to all installed WebGates for which a bundle patch is provided.

Oracle also recommends that OAM Server components be at the same (or higher) bundle patch level as the installed 12c WebGate.

If you have ...	Perform Following Steps...
12.2.1.4.0 Webgates	Apply the WebGate bundle patch: <ul style="list-style-type: none">• Confirm that an 12.2.1.4.0 WebGate is installed, as described in the <i>Oracle Fusion Middleware Installation Guide for Oracle Identity Management</i>.• Confirm that the installed WebGate bundle patch level, if any, is lower than the bundle patch you intend to apply.• Prepare for the WebGate bundle patch installation, as described in Preparing All Environments and Downloading the Bundle Patch• Apply the bundle patch as described in Installing a WebGate Bundle Patch on Any Platform

Before Installing this WebGate Bundle Patch

Before installing this bundle patch, Oracle recommends that you review this section and follow these instructions carefully:

1. Ensure that your system configuration is at the appropriate level:
 - Access Manager 12.2.1.4.0
 - Supported Operating System
 - Supported Web server release and type
2. Confirm that any currently installed bundle patch level is lower than the one you intend to install.
3. There is no need to remove an earlier bundle patch before installing a later one.
4. Windows 64-bit OS: See [Preparing 64-Bit Oracle HTTP Server 12c WebGates on Windows 64-Bit Platforms](#)

Note:

If your system configuration does not meet support requirements, or if you are not certain that your system configuration meets these requirements, Oracle recommends that you log an Service Request to get assistance with this bundle patch. Oracle Support will make a determination about whether you should apply this bundle patch or not.

Installing and Removing the Webgate Bundle Patch

This section contains the following topics to guide you, as you prepare and install the WebGate files (or as you remove a WebGate, should you need to revert to your original installation):

- [Preparing All Environments and Downloading the Bundle Patch](#)
- [Preparing 64-Bit Oracle HTTP Server 12c WebGates on Windows 64-Bit Platforms](#)
- [Installing a WebGate Bundle Patch on Any Platform](#)
- [Failure During WebGate Bundle Patch Installation](#)
- [Rolling Back a WebGate Bundle Patch on Any System](#)

Preparing All Environments and Downloading the Bundle Patch

This section introduces the Oracle patch mechanism (Opatch) and requirements that must be met before applying the bundle patch. Opatch is a Java-based utility that runs on all supported operating systems and requires installation of the Oracle Universal Installer.

Note:

Oracle recommends that you have the latest version of Opatch 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.

Perform steps in the following procedure to prepare your environment and download the bundle patch. Due to formatting constraints in this document, some sample text lines wrap around. These line wraps should be ignored.

Note:

Ignore line wrapping in syntax examples and ignore steps that do not apply to your environment or intended Opatch use.

Unless explicitly identified as relevant to only a specific condition, all steps apply to all Opatch environments. Steps that relate to only a specific condition are identified with a **bold condition**.

To prepare your environment and download the bundle patch:

1. Download the latest Opatch version.
 - Log in to My Oracle Support: <https://support.oracle.com/>

 **Note:**

Use `opatch -version` to check if your Opatch version is the latest. If it is an earlier version of Opatch, download the latest version.

2. Confirm and add required executables to your system PATH:

- Check your `$ORACLE_HOME` to confirm that it is pointing to the right Webgate`$ORACLE_HOME`.
- Confirm the required executables are in your system PATH, and add these if needed:

```
which opatch
```

```
which unzip
```

To add the required executables to your system path, you need to add the path of Opatch in PATH variable using the following:

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

3. Verify the OUI Inventory using one of the following commands:

```
opatch lsinventory
```

or

```
opatch lsinventory -jdk [Path to jdk8]
```

If an error occurs, contact Oracle Support and work to validate and verify the inventory setup before proceeding.

4. On the machine that will host the bundle patch files, create a directory to store the unzipped patch (referenced later as `PATCH_TOP`). For example:

```
Linux: /home/12.2.1.4.0/tmp
```

```
Windows: C:\12.2.1.4.0\tmp
```

5. Retrieve the Bundle Patch:

- From My Oracle Support, click the Patches & Updates link.
- Enter the Patch ID or Number, then click Search to display a Patch Search Results table.
- Using the Release and Platform columns, find the desired patch, then click the associated Patch ID.
- Download: In the page that appears, click the Download button to retrieve the packages.

6. Unzip the patch zip file into the `PATCH_TOP` directory you created earlier. For example:

```
unzip -d PATCH_TOP p33235067_122140_platform.zip
```

7. Proceed as needed for your environment:

[Preparing 64-Bit Oracle HTTP Server 12c WebGates on Windows 64-Bit Platforms](#)
[Installing a WebGate Bundle Patch on Any Platform](#)

Preparing 64-Bit Oracle HTTP Server 12c WebGates on Windows 64-Bit Platforms

If you are using Windows 64-bit operating systems, you must install updated Microsoft Visual C++ 2012 libraries on the machine hosting the Oracle HTTP Server 12c WebGate for Oracle Access Manager.

To install Microsoft Visual C++ 2012 Redistributable Package (x64)

Install the Microsoft Visual C++ 2012 Redistributable Package (x64) for x64 systems, which can be downloaded from the following web site:

<https://www.microsoft.com/en-us/download/details.aspx?id=30679>

Proceed to [Installing a WebGate Bundle Patch on Any Platform](#)

Installing a WebGate Bundle Patch on Any Platform

This section describes how to install WebGate bundle patches on any platform using Oracle patch (Opatch). While individual command syntax might differ depending on your platform, the overall procedure is the same for all platforms.

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.

When Opatch starts, it validates the patch to ensure there are no conflicts with the software already installed in your 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 installation because the new patch contains all the fixes from the existing patch in the ORACLE_HOME. The subset patch is automatically rolled back before installation of the new patch begins.

See Also:

- [Oracle Universal Installer and OPatch User's Guide:](#)

To install a Webgate bundle patch on any platform:

1. Before applying the bundle patch stop the node manager and OHS component.
2. Complete all activities in [Preparing All Environments and Downloading the Bundle Patch](#)

3. Finish preparing your deployment using one of the following topics, as needed:
[Preparing 64-Bit Oracle HTTP Server 12c WebGates on Windows 64-Bit Platforms](#)
4. Log in as the same user who installed the base WebGate and:
 - Turn off the Web server associated with the protected application.
 - Back up your `ORACLE_HOME`.
 - Move the backup directory to another location and record this so you can locate it later, if needed.
5. Set your current directory to the directory where the patch is located. For example:

```
cd PATCH_TOP/33235067
```
6. Use one of the following Opatch commands to apply the patch to your `ORACLE_HOME`:

```
opatch apply
```

or

```
opatch apply -jdk [Path to jdk8]
```
7. Restart the Web server.

Failure During WebGate Bundle Patch Installation

If there is a failure during your WebGate installation, your original WebGate installation is restored automatically.

Note:

You can check the window to see if you can discern the problem, then correct the problem and restart the bundle patch installation.

Rolling Back a WebGate Bundle Patch on Any System

The steps to remove a WebGate bundle patch from all systems are provided in the following procedure, if needed. While individual command syntax might differ depending on your platform, the overall procedure is the same.

Note:

If you see "Patch not present in the Oracle Home, Rollback cannot proceed", enter `opatch rollback -help` to get more information. If the patch was applied using `-no_inventoryoption`, use `-ph` option.

After the WebGate bundle patch is removed, the system is restored to the state it was in immediately before the bundle patch installation.

To roll back a WebGate bundle patch on any system:

1. Perform all steps in [Preparing All Environments and Downloading the Bundle Patch](#) to verify the inventory, set any environment variables, shut down any services running from the ORACLE_HOME or host machine.
2. Stop the WebGate Web server, and change to the directory where the patch was unzipped. For example:

```
cd PATCH_TOP/33235067
```

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, if needed.
4. Run `opatch` to roll back the patch. For example:

```
opatch rollback -id 33235067  
or
```

```
opatch rollback -id 33235067 -jdk PathtoJDK8
```

5. Start the WebGate Web server.

Resolved Issues

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

- [Resolved Issues in 12.2.1.4.210816](#)
- [Resolved Issues in 12.2.1.4.200811](#)

Resolved Issues in 12.2.1.4.210816

Table 1-2 Resolved Issues in 12.2.1.4.210816

Base Bug No	Description
28793688	WEBGATE CHANGES REQUIRED FOR BUG 28562000
31115416	FRC AND EPM WORKSPACE ERROR THE REQUESTED URL CONTAINS ILLEGAL CHARACTERS.
31861763	END_URL SET TO VALUE OF LOGOUT TARGET URL INSTEAD OF USING AS QUERY PARAM NAME
32107421	DIAG: NEW 12.2.1.4.0 WEBGATE LOG SHOWS "ERROR PERFORMING LIBCURL OPERATION"

Resolved Issues in 12.2.1.4.200811

Table 1-3 Resolved Issues in 12.2.1.4.200811

Base Bug Number	Description
31316696	OHS/WEBGATE THROWING AH00027: NO AUTHENTICATION DONE
31062117	WEBGATE : CHROME VERSION 80+ AND SAMESITE=NONE ISSUE (OTHER BROWSERS TO FOLLOW)
31134868	DIAGNOSTIC IMPROVEMENT FOR BUG#30806559 - HMAC FLOWS NEED MORE LOGGING
28200446	Fix for Bug 28200446
30884653	Fix for Bug 30884653
29213867	URL IS GIVING ACCESS MANAGER ERROR
25429284	ENHANCED THE WEBGATE LOGGING WHEN CONNECTION ISSUES ARE SEEN
29204353	OHS FAILS TO START AFTER UPGRADE FOR 11G WEBGATE

Known Issues

Known issues and their workarounds in Oracle Access Management Release 12.2.1.4.0 are described in the Oracle Access Management 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>

Note:

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

Documentation

This section describes the documentation that is available to support the latest bundle patch and the original release. This section provides the following topics:

- [Oracle Access Manager Manuals and Release Notes](#)
- [Patch Set Notes and Bundle Patch Notes](#)
- [Certification Documentation](#)

Oracle Access Manager Manuals and Release Notes

You can find release notes and manuals on Oracle Technology Network (OTN). If you already have a user name and password for OTN, you can go directly to the documentation section of the OTN Web site at:

<http://www.oracle.com/technetwork/indexes/documentation/index.html>

Oracle Access Manager 12c documentation link:

<https://docs.oracle.com/en/middleware/idm/access-manager/12.2.1.4/index.html>

Patch Set Notes and Bundle Patch Notes

You can download notes with software patches and bundle patches from My Oracle Support (formerly MetaLink) at:

<http://support.oracle.com>

This document, Oracle Access Manager WebGate Release Notes Bundle Patch 12.2.1.4.210816 for All Server Platforms, provides the following information for this specific bundle patch release:

- General information about bundle patches.
- General WebGate bundle patch requirements and installation details.
- Details about what is included in the Webgate bundle patch.

The Oracle Access Manager WebGate Release Notes Bundle Patch 12.2.1.4.210816 for All Server Platforms is available in HTML format, as readme.htm, that you can view without downloading the zip file.

Certification Documentation

Certification Matrix	http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html
Oracle Fusion Middleware Requirements	http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-requirements-100147.html
Oracle Fusion Middleware Downloads	http://www.oracle.com/technetwork/middleware/downloads/index-087510.html

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Oracle Access Management Webgate Release Notes, Bundle Patch 12c (12.2.1.4.210816)

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