Oracle® Access Management

Webgate Release Notes

Bundle Patch 12c (12.2.1.4.230106)

F75603-01

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Oracle Access Management Webgate Bundle Patch Readme

This document describes the bug fixes that are included with Bundle Patch 12.2.1.4.230106.

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).



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	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.
	This bundle patch must be applied to Access Manager 12.2.1.4.0 WebGates.
	See Also: Before Installing this WebGate Bundle Patch
Patch Set	All of the fixes in the patch set have been tested and are certified to work with one another on the specified platforms.
	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.

WebGate Bundle Patch Requirements

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

- WebGate Bundle Patch 12.2.1.4.230106
- Bundle Patch Recommendations

WebGate Bundle Patch 12.2.1.4.230106

Oracle Access Manager 12c Release (12.2.1.4.0) WebGates are the required base for WebGate Bundle Patch 12.2.1.4.230106



This patch is for customers moving to DB19c. Customers who do not want to migrate to DB19c must request one-off fixes for WebGate bugs.

✓ 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.



This bundle patch is for DB19c customers.

If you have	Perform Following Steps
12.2.1.4.0 Webgates	Apply the WebGate bundle patch:
	 Confirm that an 12.2.1.4.0 WebGate is installed, as described in the Oracle Fusion Middleware Installation Guide for Oracle Identity Management. 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 Properties All.
	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.
- 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.

- 5. Following pre-requisites are needed for Oracle HTTP Server(OHS) and Oracle Traffic Director(OTD) WebGates:
 - Download DB Client Installer patch: 34761383 and install DB Client by following the instruction in the readme.txt of 34761383.
 - b. Apply OSS Bundle Patch:34957122.
 - c. Apply OHS Bundle Patch:34889693 or OTD Bundle Patch:34380114 according to middleware home.
- Minimum OS version required for WebGate is OEL 7.

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.



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.



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/



Use <code>opatch -version</code> 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 p34955202 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 <code>ORACLE_HOME</code> using your preferred method before any patch operation. You can use any method (zip, cp -r, tar, and cpio) to compress the <code>ORACLE_HOME</code>.

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 <code>ORACLE_HOME</code>. 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:

- 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
- 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/34955202
```

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.



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.



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.

Rollback is not supported for Oracle HTTP Server(OHS) and Oracle Traffic Director(OTD) WebGates.

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:

- 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/34955202
```

- 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 34955202
or
opatch rollback -id 34955202 -jdk PathtoJDK8
```

Start the WebGate Web server.

Resolved Issues



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

- Resolved Issues in 12.2.1.4.230106
- Resolved Issues in 12.2.1.4.210816
- Resolved Issues in 12.2.1.4.200811

Resolved Issues in 12.2.1.4.230106

Table 1-2 Resolved Issues in 12.2.1.4.230106

Base Bug No	Description
34856084	IHS SERVER FAILED TO START AFTER APPLYING WEBGATE PATCH 34848733
34256602	WEBGATE.INI FILE IS MISSING THE '1' AFTER THE INSTALLATION
33488626	WEBGATE HTTP 200 RESPONSE DOESN'T INCLUDE SECURITY DIRECTIVES FROM HTTPD.CONF



Security headers configured in Webgate userdefined parameters like X-Frame-Options, Content-Security-Policy, and so on can also be set on Webgate requests like obrar.cgi. You can disable this feature by setting **s**etXResponsesFo rWG=false in Webgate's userdefined parameters.

34236162	JWT SIGNATURE VERIFICATION FAILING ON AIX DUE TO NZ API ZTPK_VERIFY RETRUNING FAILURE
34494730	OAP VIA REST WEBGATE LOGGING DOES NOT LOG UNENCRYPTED MESSAGES
34036914	WEBGATE OAP OVER HTTP SHOULD PRESERVE ECID OF OHS REQUESTS FROM END-USERS



Table 1-2 (Cont.) Resolved Issues in 12.2.1.4.230106

Base Bug No	Description
33397046	CWG HANGS ON APACHE PREFORK MPM AWS TO OCI AFTER ONE HOUR
33398391	STRESS:FA:OAM:FMW12C: CORE DUMPS SEEN IN OHS FROM OBHTTPREQUESTHANDLER::HANDLEMESSAGE DURING LOGON_STORM TEST
33245317	LOGOUT CALLBACK NOT WORKING PROPERLY FOR IDCS WEBGATE
33088004	OHS12C WEBGATE ON CONFIGURING IN 2WAY SSL WITH OAM FIRST ACCESS GIVE ACCESS SERVER ISSUE
32074849	NEED TO SUPPORT 2-WAY SSL FOR OAP OVER REST OR HTTP
32801155	OHS 12.2.1.3.200813 (BP05) CAUSES 20 ERROR PER HOUR AFTER BEING APPLIED
32078823	WEBGATE 12C MEMORY LEAK ISSUE
32843839	NEED CASE INSENSITIVE FILTER IN CLOUD.POLICY
31918824	DELAYS WHEN LOADING RESOURCES IF ONE OR MORE NODES HAVE IPTABLES DROP

Resolved Issues in 12.2.1.4.210816

Table 1-3 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 1-4 Resolved Issues in 12.2.1.4.200811

Description
OHS/WEBGATE THROWING AH00027: NO AUTHENTICATION DONE
WEBGATE : CHROME VERSION 80+ AND SAMESITE=NONE ISSUE (OTHER BROWSERS TO FOLLOW)
DIAGNOSTIC IMPROVEMENT FOR BUG#30806559 - HMAC FLOWS NEED MORE LOGGING
Fix for Bug 28200446
Fix for Bug 30884653
URL IS GIVING ACCESS MANAGER ERROR
ENHANCED THE WEBGATE LOGGING WHEN CONNECTION ISSUES ARE SEEN
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



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 12.2.1.4.230106 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 12.2.1.4.230106 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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