

**Oracle® Communications  
Offline Mediation Controller**

Patch Set Installation Guide

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# Preface

This guide provides general information on how to install Oracle Communications Offline Mediation Controller 12.0 patch sets.

## Audience

This guide is intended for system administrators and developers who install and configure Offline Mediation Controller.

This guide assumes that you:

- Have a working knowledge of the UNIX operating system
- Understand your network configuration and the equipment from which Offline Mediation Controller collects data

## Downloading Oracle Communications Documentation

Product documentation is located on Oracle Help Center:

<http://docs.oracle.com>

Additional Oracle Communications documentation is available from the Oracle software delivery Web site:

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## Document Revision History

The following table lists the revision history for this book.

<b>Version</b>	<b>Date</b>	<b>Description</b>
F10053-01	September 2018	Initial release.
F10053-02	September 2019	Documentation updates for Offline Mediation Controller 12.0 Patch Set 2. <ul style="list-style-type: none"><li>■ Updated the following section: <a href="#">Installing the Patch Set</a></li></ul>

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# Installing Offline Mediation Controller 12.0 Patch Sets

This chapter describes how to install and uninstall Oracle Communications Offline Mediation Controller 12.0 patch sets.

## Offline Mediation Controller 12.0 Patch Set Installation Overview

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**Important:** Be sure to test the patch on a non-production system before you deploy it on a production system.

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Offline Mediation Controller 12.0 Patch Set includes changes to the following:

- Offline Mediation Controller Administration Server
- Offline Mediation Controller Administration Client
- Offline Mediation Controller Node Manager

Offline Mediation Controller 12.0 patch sets contain bug fixes and enhancements. See *Offline Mediation Controller 12.0 Patch Set Release Notes* for more information.

## Installing the Patch Set

Perform the following tasks on your Offline Mediation Controller system to install Offline Mediation Controller 12.0 patch sets:

1. [Shutting Down Offline Mediation Controller](#)
2. [Backing Up the Current Installation](#)
3. [Installing Oracle Unified Directory 12c Release 2](#)
4. [Installing the Patch](#)

## Shutting Down Offline Mediation Controller

To shut down Offline Mediation Controller:

1. Ensure that no users are logged in.  
Users include customers, client applications, and so on.
2. Stop all Offline Mediation Controller components. For more information, see the discussion on starting and stopping Offline Mediation Controller in *Offline Mediation Controller System Administrator's Guide*.

## Backing Up the Current Installation

To prevent any data loss and minimize the impact of software or hardware failure during the patch installation, back up your existing installation.

Before installing the patch, make a complete offline backup of the following:

- The Offline Mediation Controller installation directory and its content: *OMC\_home*. In particular, make sure you back up all customized files, including the **UDCEnvironment** file and schema files.
- The Oracle Inventory (**oraInventory**) directory. Open the **/etc/oraInst.loc** (Linux) file or the **/var/opt/oracle/OraInst.loc** (Solaris) file to find the default location of the **oraInventory** directory.

## Installing Oracle Unified Directory 12c Release 2

Install the latest version of Oracle Unified Directory 12c Release 2 on the system on which Administration Server is installed.

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**Important:** You can also use Oracle Unified Directory 11g Release 1 (11.1.2.3.0).

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See the Oracle Unified Directory 12c Release 2 documentation for more information about installing or upgrading to Oracle Unified Directory 12c Release 2.

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**Note:** If you are upgrading from Oracle Unified Directory 11g Release 1 to Oracle Unified Directory 12c Release 2, set the Java options for running Oracle Unified Directory 12c Release 2 to the latest version of JRE. See the Oracle Unified Directory 12c Release 2 documentation for more information about configuring the Java options.

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## Installing the Patch

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**Note:** Install the Offline Mediation Controller 12.0 patch set on the same system on which you have installed Offline Mediation Controller 12.0.

If you installed individual Offline Mediation Controller components, install the patch on each instance of the installed component.

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To install the patch:

1. Create a temporary directory (*temp\_dir*).
2. Go to the My Oracle Support Web site:  
<https://support.oracle.com>
3. Sign in with your user name and password.
4. Click the **Patches & Updates** tab.
5. From the list, select **Patch Name or Number**.
6. In the text field, enter *PatchNumber* and click **Search**.

where *PatchNumber* is:

- **28636067** for Offline Mediation Controller 12.0 Patch Set 1.
- **30094574** for Offline Mediation Controller 12.0 Patch Set 2.

The Patch Search Results page appears.

7. Click the patch name.

The patch details appear.

8. From the **Platform** list, select the platform and click **Download**.

The File Download dialog box appears.

9. Download the **pPatchNumber\_1200v0\_Generic.zip** software pack to *temp\_dir*.

where *v* is the Offline Mediation Controller patch set version. For example, 1 is the version for Offline Mediation Controller 12.0 Patch Set 1 and 2 is the version for Offline Mediation Controller 12.0 Patch Set 2.

10. Unzip the **pPatchNumber\_1200v0\_Generic.zip** file.

The zip archive includes the **ocomc-12.0.0.v.0\_generic.jar** installer.

11. Ensure that Administration Server and Node Manager are not running.

12. Go to the *temp\_dir* directory, and run one of the following commands:

- To start the GUI installer:

```
Java_home/bin/java -jar ocomc-12.0.0.v.0_generic.jar
```

where:

- *Java\_home* is the directory in which you installed the latest supported Java version.
- *v* is the Offline Mediation Controller patch set version. For example, 1 is the version for Offline Mediation Controller 12.0 Patch Set 1 and 2 is the version for Offline Mediation Controller 12.0 Patch Set 2

- To start the GUI installer and install Offline Mediation Controller using the **oraInventory** directory in a different location:

```
Java_home/bin/java -jar ocomc-12.0.0.v.0_generic.jar -invPtrLoc  
FilePath/oraInst.loc
```

where *FilePath* is the path to the directory in which the **oraInst.loc** file is located.

- To start the GUI installer and create logs for debugging:

```
Java_home/bin/java -jar ocomc-12.0.0.v.0_generic.jar -debug -logLevel  
FINEST
```

- To start the GUI installer and create a silent installer response file during the installation:

```
Java_home/bin/java -jar ocomc-12.0.0.v.0_generic.jar -record  
-destinationFile path
```

where *path* is the absolute path to the response file.

The Welcome screen appears.

13. Click **Next**.

The Installation Location screen appears.

14. Enter the full path or browse to the directory in which you installed install Offline Mediation Controller 12.0.

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**Note:** Optionally, click **Browse** and navigate to the directory where Offline Mediation Controller is installed.

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The OCOMC Configuration screen appears.

15. Enter the following information to specify Offline Mediation Controller configuration details:
  - In the Wallet Configuration section, do the following to enter the details for the Oracle Communications Offline Mediation Controller wallet:
    - a. In the **Wallet Path** field, enter the full path or browse to the directory in which the Offline Mediation wallet is stored.
    - b. In the **Wallet password** field, enter the Offline Mediation wallet password.

The Installation Summary screen appears.

16. Review your selections, and click **Install**.

The Installation Progress screen appears, and the installation begins.

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**Important:** After the installation begins, you cannot stop or cancel the installation.

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When the installation is done, click **Next**, the Installation Complete screen appears.

The installer checks for all required software and displays errors if it detects any missing or unavailable components or if any connectivity issues occur.

17. Click **Finish** to complete the installation.

## Post-Installation Tasks

After installing the Offline Mediation Controller 12.0 patch set, perform the following post-installation tasks:

1. [Restoring Customizations](#)
2. [Adding Offline Mediation Controller Service to System Startup](#)
3. [Configuring Offline Mediation Controller to Work with Oracle Unified Directory 12c Release 2](#)

### Restoring Customizations

Restore any customizations you made, including the **UDCEnvironment** file and schema files, unless you have already incorporated them.

### Adding Offline Mediation Controller Service to System Startup

After installing Offline Mediation Controller, run the **configure** script to add the Offline Mediation Controller service to the system startup scripts in the **/etc/init.d/** directory.

To add the Offline Mediation Controller service to the system startup scripts:

1. Log on as root to the system on which Offline Mediation Controller is installed.
2. Set the `JAVA_HOME` environment variable to the latest version of JRE certified with Offline Mediation Controller. For the latest version of Java certified with Offline Mediation Controller, see the discussion about Offline Mediation Controller system requirements in *Offline Mediation Controller Installation Guide*.

For example, in C shell, do the following:

- a. Open the `.cshrc` file in a text editor.
- b. Add or modify the following entries:

```
setenv JAVA_HOME JRE_home
setenv PATH ${JAVA_HOME}:${PATH}
```

- c. Save and close the file.
- d. Update the environment by running the following command:

```
source .cshrc
```

3. Go to the `OMC_home/bin` directory.
4. Run the following command:

```
./configure OMC_home
```

The configurations required to run Offline Mediation Controller are performed.

5. Start all Offline Mediation Controller processes.

## Configuring Offline Mediation Controller to Work with Oracle Unified Directory 12c Release 2

If you are using Oracle Unified Directory 12c Release 2, you must perform this step.

To configure Offline Mediation Controller to work with Oracle Unified Directory 11g Release 2:

1. Stop all Offline Mediation Controller processes.  
See the discussion about starting and stopping Offline Mediation Controller in *Offline Mediation Controller System Administrator's Guide* for more information.
2. If an Oracle Unified Directory 12c Release 2 instance for Offline Mediation Controller does not already exist, create an Oracle Unified Directory 12c Release 2 instance.

See the discussion about creating an Oracle Unified Directory instance for Offline Mediation Controller in *Offline Mediation Controller Installation Guide* for more information.

3. On the system on which Administration Server is installed, go to the `OMC_home/bin` directory.
4. Create the `populateDirTemp.ldif` file if it does not already exist and add the following text:

```
dn: uid=Admin,ou=People,dc=ocomcexample.com
changetype: modify
replace: userpassword
userpassword: adminpassword
```

where *adminpassword* is the password for the Administration Client administrator user.

5. Save and close the file.
6. Run the following command:

```
oudConfig -i oud_instance_path -h oud_host -p oud_admin_port -d "oud_binddn" -w  
oud_admin_password -b "dc=ocomcexample.com" -l oud_ldapport
```

where:

- *oud\_instance\_path* is the path to the directory where the Oracle Unified Directory instance is installed.
- *oud\_host* is the IP address or the host name of the system on which Oracle Unified Directory is installed.
- *oud\_admin\_port* is the port used for administration traffic with Oracle Unified Directory. The default is **4444**.
- *oud\_binddn* is the root user distinguished name (DN). The default is **"cn=Directory Manager"**.
- *oud\_admin\_password* is the root user bind password for Oracle Unified Directory.
- *oud\_ldapport* is the port used by LDAP to send and receive data. The default is **1389**.

For example:

```
./oudConfig -i /Oracle_home/Oracle/Middleware/asinst_1/OU  
            -h oud1.example.com  
            -p 4444  
            -d "cn=Directory Manager"  
            -w Welcome1@  
            -b "dc=ocomcexample.com"  
            -l 1389
```

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**Important:** The **oudConfig** script removes all the existing user accounts in your Oracle Unified Directory instance and creates an **Admin** user based on information provided in the **populateDirTemp.ldif** file.

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7. Do the following if you have created a new Oracle Unified Directory instance in step 2:
  - a. Open the *OMC\_home/web/htdocs/AdminServerImpl.properties* file in a text editor.
  - b. Search the file for the following line:

```
com.nt.udc.admin.server.AdminServerImpl.ldapURL ldap://ldap_oud_host:ldap_oud_port
```

where:

*ldap\_oud\_host* is the IP address or the host name of the system on which Oracle Unified Directory is installed.

*ldap\_oud\_port* is the LDAP port number for Oracle Unified Directory.

- c. Replace **ldap://ldap\_oud\_host:ldap\_oud\_port** with the LDAP URL and port number for the Oracle Unified Directory instance.

For example:

```
com.nt.udc.admin.server.AdminServerImpl.ldapURL
ldap://oud1.example.com:1389
```

- d. Save and close the file.
8. Start all Offline Mediation Controller processes.

## Installing Cartridge Packs

To install the required cartridge packs to use with Offline Mediation Controller 12.0 patch set:

1. Stop all node managers, administration servers, and Administration clients on the system where you are installing the cartridge kit.
2. If you are installing the ECE cartridge pack, ensure that you installed the latest ECE software compatible with the Offline Mediation Controller 12.0 patch set. For the compatible ECE software, see *BRM Compatibility Matrix*.

For example, you can use ECE 12.0 Patch Set 1 cartridge pack only with Offline Mediation Controller 12.0 Patch Set 1.

3. Create a temporary directory (*temp\_dir*).
4. Go to the My Oracle Support Web site:  
<https://support.oracle.com>
5. Sign in with your user name and password.
6. Click the **Patches & Updates** tab.
7. From the list, select **Patch Name or Number**.
8. In the text field, enter *PatchNumber* and click **Search**.

where *PatchNumber* is:

- **28636067** for Offline Mediation Controller 12.0 Patch Set 1.
- **30094574** for Offline Mediation Controller 12.0 Patch Set 2.

The Patch Search Results page appears.

9. Click the patch name.  
The patch details appear.
10. From the **Platform** list, select the platform and click **Download**.  
The File Download dialog box appears.
11. Download the **pPatchNumber\_1200v0\_Generic.zip** software pack to *temp\_dir*.  
where *v* is the Offline Mediation Controller patch set version. For example, 1 is the version for Offline Mediation Controller 12.0 Patch Set 1 and 2 is the version for Offline Mediation Controller 12.0 Patch Set 2.
12. Unzip the **pPatchNumber\_1200v0\_Generic.zip** file.
13. Move the required cartridge pack jar files to the *OMC\_home/cartridges* directory.

For the list of cartridge packs and JAR files, see *Offline Mediation Controller Cartridge Packs Guide*.

14. Start all node managers, administration servers, and Administration clients.
15. Verify that the cartridge pack has been properly installed by viewing **Version Info** from the **Help** menu in Administration Client.

## Verifying the Offline Mediation Controller Installation

To verify the installation of Offline Mediation Controller if the components are installed on separate systems:

1. Log on to the system on which Offline Mediation Controller is installed.
2. Go to the `OMC_home/bin` directory.
3. Run the following command:

```
./daemon_name
```

where *daemon\_name* is the daemon you want to start:

Component	Daemon Name
Administration Server	adminsvr
Node Manager	nodemgr

4. Start Administration Client by doing the following:

```
./gui
```

The Welcome to Oracle Communications Offline Mediation Controller dialog box appears.

5. In the **IP Address** field, enter the IP address or the host name of Administration Server to which you want to connect.
6. In the **Port** field, accept the default port number.  
If the system to which you want to connect resides on a UDP port other than the default, change the port number.
7. Enter your user ID and password.

If you are the Offline Mediation Controller system administrator, in the **User ID** field, enter **admin**; in the **Password** field, enter the password for the Offline Mediation Controller administrator user.

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**Note:** Oracle recommends that you change your password at regular intervals to ensure security.

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8. Click **Connect**.

The Administration Client window appears.

To verify the installation of Offline Mediation Controller if the components are installed on the same Linux or Solaris system:

1. Log on to the system on which Offline Mediation Controller is installed.

2. Go to the `OMC_home/bin/` directory.

3. Run the following command:

```
./ProcessControl start
```

**ProcessControl** starts the specified servers on the specified ports.

See the discussion about the **ProcessControl** script in *Offline Mediation Controller System Administrator's Guide*.

4. Run the following command:

```
./gui
```

The Welcome to Oracle Communications Offline Mediation Controller dialog box appears.

5. In the **IP Address** field, enter the IP address or the host name of Administration Server to which you want to connect.

6. In the **Port** field, accept the default port number.

If the system to which you want to connect resides on a UDP port other than the default, change the port number.

7. Enter your user ID and password.

If you are the Offline Mediation Controller system administrator, in the **User ID** field, enter **admin**; in the **Password** field, enter the password for the Offline Mediation Controller administrator user.

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**Note:** Oracle recommends that you change your password at regular intervals to ensure security.

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8. Click **Connect**.

The Administration Client window appears.

## Restoring the Previous Installation

If your patch set installation is not successful, restore your system to the previous installation.

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**Note:** The Offline Mediation Controller 12.0 patch set installer does not support uninstallation. As a workaround, restore the previous installation by replacing the Offline Mediation Controller 12.0 patch set directories with the directories that you backed up before installing the patch.

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To restore the previous Offline Mediation Controller 12.0 installation:

1. Ensure that no users are logged in.

Users include customers, client applications, and so on.

2. Stop all Offline Mediation Controller components. For more information, see the discussion on starting and stopping Offline Mediation Controller in *Offline Mediation Controller System Administrator's Guide*.

3. Restore the Offline Mediation Controller installation directory. Use the *OMC\_home* directory that you backed up before you installed the Offline Mediation Controller 12.0 patch set to replace the *OMC\_home* directory.
4. Restore the **oraInventory** directory. Use the **oraInventory** directory that you backed up before you installed Offline Mediation Controller 12.0 patch set to replace the **oraInventory** directory.
5. Restart Administration Server and Node Manager.