

Oracle® Database Appliance

Licensing Information User Manual

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Preface

This document, which is part of the Program Documentation under the terms of your Oracle licensing agreement, is intended to help you understand the features, functionality, and options available for Oracle Programs.

If you have a question about your licensing needs, then contact your Oracle sales representative or the License Management Services representative. You can also refer to the resources listed in for more information.

See Also:

<http://www.oracle.com/us/corporate/license-management-services/index.html>

Audience

This book is intended for all purchasers of Oracle Database Appliance.

Related Documents

For more information, see these Oracle resources.

- *Oracle Database Appliance Getting Started Guide* for information about deploying Oracle Database Appliance.
- *Oracle Database Appliance Administration and Reference Guide* for information about managing Oracle Database Appliance.
- The Software Investment Guide, available at the following URL:
<http://www.oracle.com/us/corporate/%20pricing/sig-070616.pdf>

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

monospace

Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Oracle Database Appliance Licensing Overview

This chapter provides an overview of the licensing process for each hardware platform.

When you add your hardware Support Identifier (SI) for Oracle Database Appliance to your My Oracle Support account, you establish a license for all the cores on your system. The platform can be deployed with bare metal or virtualization. Both platforms types offer capacity-on-demand licensing. With bare-metal, you disable cores that will not be used by the Oracle Database by adding your hardware Support Identifier (SI) for Oracle Database Appliance to your My Oracle Support account and creating a key. If you deploy Oracle Database Appliance Virtualized Platform, then all the cores will be enabled, but capacity-on-demand licensing is established by assigning specific cores to the virtual machine where you run Oracle Database and related software (ODA_BASE).

- Chapter two explains how to obtain a licensing key and record your initial license requirements with My Oracle Support. It also explains how to change the licensed core count, if required, at a later time.

Note that chapter two is only appropriate for bare metal installations where your license covers the cores that you are using for Oracle Database.

- Chapter three contains information about the third-party products that are included with Oracle Database Appliance.

“Task 3: Install the ODA_BASE Template” Chapter 4 of *Oracle Database Appliance Getting Started Guide* for an example of setting the initial licensed core count on Oracle Database Appliance Virtualized Platform.

See Also:

[Oracle Database Appliance Getting Started Guide](#)

CPUs and Core Count

Each Oracle Database Appliance includes two nodes. Review this section for information about core license options for your Oracle Database Appliance hardware.

Oracle Database Appliance X5-2 nodes each contain 2 CPUs and each CPU has 18 cores. When you deploy Oracle Database Appliance X5-2, all 72 cores (36 cores in each server) are active with hyper-threading enabled by default.

Oracle Database Appliance X4-2 nodes each contain 2 CPUs and each CPU has 12 cores. When you deploy Oracle Database Appliance X4-2, all 48 cores (24 cores in each server) are active with hyper-threading enabled by default.

Oracle Database Appliance X3-2 nodes each contain two CPUs and each CPU has eight cores. When you deploy Oracle Database Appliance X3-2, all 32 cores (16 cores in each server) are active with hyper-threading enabled by default.

Oracle Database Appliance V1 nodes each contain two CPUs, and each CPU has six cores. When you deploy Oracle Database Appliance, all 24 cores (12 cores in each server) are active with hyper-threading enabled by default.

Oracle Database Appliance bare metal licensing is determined by the number of enabled cores that you have on your system. The capacity-on-demand licensing feature enables you to change the enabled core count as your system resource needs change.

Initially set the number of licensed cores to the level currently required by your applications. Each server node has the same number of active cores. Later, increase the licensed core count as your applications require more capacity. Change the number of licensed cores by obtaining and applying a core key to configure your appliance, using the tables for your Oracle Database Appliance platform.

Oracle Database Appliance X5-2 Licensed Core Licensing Options

Table 1-1 Table 1-1 Bare Metal License Options for Oracle Database Appliance X5-2

Licensed Cores for Each Node	Active Cores for Oracle RAC and Oracle Enterprise Edition	Active Cores for Oracle RAC One Node
2	4	2
4	8	4
6	12	6
8	16	8
10	20	10
12	24	12
14	28	14
16	32	16
18	36	18
20	40	20
22	44	22
24	48	24
26	52	26
28	56	28
30	60	30
32	64	32

Table 1-1 (Cont.) Table 1-1 Bare Metal License Options for Oracle Database Appliance X5-2

Licensed Cores for Each Node	Active Cores for Oracle RAC and Oracle Enterprise Edition	Active Cores for Oracle RAC One Node
34	68	34
36	72	36

Oracle Database Appliance X4-2 Licensed Core Licensing Options**Table 1-2 Bare Metal License Options for Oracle Database Appliance X4-2**

Licensed Cores for Each Node	Active Cores for Oracle RAC and Oracle Enterprise Edition	Active Cores for Oracle RAC One Node
2	4	2
4	8	4
6	12	6
8	16	8
10	20	10
12	24	12
14	28	14
16	32	16
18	36	18
20	40	20
22	44	22
24	48	24

Oracle Database Appliance X3-2 licensed core licensing options

The information presented in the following table applies when you are running Oracle Appliance Manager release 2.10 or later. Otherwise, you can only allocate each server with a granularity of 4 cores.

Table 1-3 Bare Metal License Options for Oracle Database Appliance X3-2

Licensed Cores for Each Node	Active Cores for Oracle RAC and Oracle Enterprise Edition	Active Cores for Oracle RAC One Node
2	4	2

Table 1-3 (Cont.) Bare Metal License Options for Oracle Database Appliance X3-2

Licensed Cores for Each Node	Active Cores for Oracle RAC and Oracle Enterprise Edition	Active Cores for Oracle RAC One Node
4	8	4
6	12	6
8	16	8
10	20	10
12	24	12
14	28	14
16	32	16

Oracle Database Appliance V1 Licensed Core Licensing Options

Table 1-4 Bare Metal License Options for Oracle Database Appliance

Table 1-4 Bare Metal License Options for Oracle Database Appliance V1

Licensed Cores for Each Node	Active Cores for Oracle RAC and Oracle Enterprise Edition	Active Cores for Oracle RAC One Node
2	4	2
4	8	4
6	12	6
8	16	8
10	20	10
12	24	12

Note:

Find details about managing capacity-on-demand licensing for Oracle Database Appliance Virtualized Platform in the "Resizing ODA_BASE" section of Chapter 3 in *Oracle Database Appliance Administration and Reference Guide*.

See Also:

[Oracle Database Appliance Administration and Reference Guide](#)

Capacity-On-Demand Licensing Information

This chapter provides capacity-on-demand licensing information for Oracle Database Appliance bare metal installations. It contains a separate section for each of the Oracle Database Appliance Models.

Each section contains the following topics:

- An overview of the system capacity and default licensing settings for bare metal deployments.
- A set of rules and restrictions to follow when you initially set CPU or subsequently change core counts for bare metal deployments.
- Step-by-step instructions to set initial CPU counts or subsequently change them on bare metal deployments.

Capacity-On-Demand Licensing for Oracle Database Appliance X5-2

This section explains capacity-on-demand licensing for Oracle Database Appliance X5-2.

Oracle Database Appliance X5-2 consists of two servers. Each server has 36 CPU cores. By default, Oracle Database Appliance ships with all cores enabled on both servers:

- 36 CPU cores enabled on each of the two servers
- 72 enabled CPU cores

You can use the default CPU core count of 2 for each server, or you can change the CPU core count by following the procedure in "Setting the CPU Core Count on Oracle Database Appliance X5-2 Bare Metal Deployments". For example, if you change the CPU core count to 18 for each server, then:

- 18 CPU cores are enabled on each of the two servers
- You have a total of 36 enabled CPU cores

Rules and Restrictions for Setting CPU Core Count on Oracle Database Appliance X5-2 Bare Metal Deployments

Review the following rules and restrictions before changing the CPU core count:

- You can change the CPU core count to a value that is a multiple of two between 2 and 36 for each server.
- If you change the CPU core count, then you can subsequently only increase the CPU core count.

For example, if you change the CPU core count to 28, then you can subsequently change the CPU core count to 30, 32, 34, or 36. If you later change the CPU core count to 34, then you can subsequently change the CPU core count to 36.

- If your desired CPU core count is 36 for each server, then use the default configuration. There is no need to follow the procedure in "Setting the CPU Core Count on Oracle Database Appliance X5-2 Bare Metal Deployments" to set the CPU core count to 36.

Note: If you mistakenly followed the procedure to set your CPU core count to 36, thereby preventing you from subsequently increasing your CPU core count, and the error is caught immediately, then contact Oracle Support.

Setting the CPU Core Count on Oracle Database Appliance X5-2 Bare Metal Deployments

This section describes how to set the CPU core count on Oracle Database Appliance X5-2 bare metal deployments.

To set the CPU core count:

1. Log in to the My Oracle Support:
<https://myoraclesupport.com>
2. Click the **Settings** tab and select **Assets** from the submenu.
3. Search for the serial number of the appliance in the asset list. If you cannot locate the serial number, then contact Oracle Support.
4. Select the appliance's serial number
5. Select **Manage Key** from the available actions.
6. In the Manage Cores Configuration Key dialog, you can view the serial number of the appliance. If a key was previously generated, then you can view the current configuration.
7. In the **Cores Per Server** menu, select the desired number of enabled CPU cores that you want for each server. The value that you select applies to both servers on the appliance. Initially, you can select 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, or 36. Subsequently, you can only select a number that is greater than the current value.
8. Click **Generate Key** to generate the key.
9. Click **Copy Key to Clipboard** to copy the key to the clipboard.
10. Paste the key into an empty text file and save the file to a location on the Oracle Database Appliance.
11. Log in to one of the Oracle Database Appliance servers as `root`.
12. Run the following command to restart the server to complete the reconfiguration, where `key_file_location` is the full path name of the text file that you created in Step 7:
`/opt/oracle/oak/bin/oakcli apply core_configuration_key key_file_location`

For example:

```
/opt/oracle/oak/bin/oakcli apply core_configuration_key /home/  
myfile.txt
```

After the system restarts, Oracle Database Appliance is reconfigured. Both servers run with the specified CPU core count. You must always assign cores on Oracle Database Appliance X5-2 bare-metal deployments in multiples of two, with a minimum of two cores.

Capacity-On-Demand Licensing for Oracle Database Appliance X4-2

This section describes capacity-on-demand licensing for Oracle Database Appliance X4-2.

Oracle Database Appliance X4-2 consists of two servers. Each server has 24 CPU cores. By default, Oracle Database Appliance is shipped with all cores enabled on both servers:

- 24 CPU cores enabled on each of the two servers
- 48 enabled CPU cores

You can use the default CPU core count of 24 for each server, or you can change the CPU core count by following the procedure in "Setting the CPU Core Count on Oracle Database Appliance X4-2 Bare Metal Deployments." For example, if you change the CPU core count to 16 for each server, then your server is configured as follows:

- 16 CPU cores enabled on each of the two servers
- 32 enabled CPU cores

Rules and Restrictions for Setting CPU Core Count on Oracle Database Appliance X4-2 Bare Metal Deployments

Review the following rules and restrictions before changing the CPU core count: .

- You can change the CPU core count to a value that is a multiple of two between 2 and 24 for each server.
- If you change the CPU core count, then you can subsequently only increase the CPU core count.

For example, if you change the CPU core count to 16, then you can subsequently change the CPU core count to 18, 20, 22, or 24. If you later change the CPU core count to 22, then you can subsequently change the CPU core count to 24.

- If your desired CPU core count is 24 for each server, then use the default configuration. Do not follow the procedure in "Setting the CPU Core Count on Oracle Database Appliance X4-2 Bare Metal Deployments" to set the CPU core count to 24. Using the default configuration enables you to change the CPU core count to a number that is less than 16.

Note: If you mistakenly followed the procedure to set your CPU core count to 24, thereby preventing you from subsequently increasing your CPU core count, and the error is caught immediately, then contact Oracle Support.

Setting the CPU Core Count on Oracle Database Appliance X4-2 Bare Metal Deployments

This section describes how to set the CPU core count on Oracle Database Appliance X4-2 bare metal deployments.

To set the CPU core count:

1. Log in to the My Oracle Support:
<https://myoraclesupport.com>
2. Click the **Settings** tab, and select **Assets** from the submenu.

(Optional) Enter the result of the step here.
3. Search for the serial number of the appliance in the asset list. If you cannot locate the serial number, then contact Oracle Support.
4. Select the serial number of the appliance.
5. Select **Manage Key** from the available actions.
6. In the Manage Cores Configuration Key dialog box, you can view the serial number of the appliance. If a key was previously generated, then you can view the current configuration.
7. In the **Cores Per Server** list, select the desired number of enabled CPU cores for each server. The value you select will apply to both servers on the appliance. Initially, you can select 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, or 24. Subsequently, you can only select a number that is greater than the current number.
8. Click **Generate Key** to generate the key.
9. Click **Copy Key to Clipboard** to copy the key to the clipboard.
10. Paste the key into an empty text file and save the file to a location on the Oracle Database Appliance.
11. Log in to one of the servers on Oracle Database Appliance as `root`.
12. Run the command in this step to reboot the server to complete the reconfiguration where `key_file_location` is the full path name of the text file that you created in Step 7.:

```
/opt/oracle/oak/bin/oakcli apply core_configuration_key  
key_file_location
```

For Example:

```
/opt/oracle/oak/bin/oakcli apply core_configuration_key /home/  
myfile.txt
```

After the system restarts, Oracle Database Appliance is reconfigured. Both servers run with the specified CPU core count. You must always assign cores on Oracle Database Appliance X4-2 bare metal deployments in multiples of two, with a minimum of two cores.

Capacity-On-Demand Licensing for Oracle Database Appliance X3-2

This section describes capacity-on-demand licensing for Oracle Database Appliance X3-2.

Oracle Database Appliance X3-2 consists of two servers. Each server has 16 CPU cores. By default, Oracle Database Appliance ships with all cores enabled on both servers:

- 16 CPU cores enabled on each of the two servers
- 32 enabled CPU cores

Rules and Restrictions for Setting CPU Core Count on Oracle Database Appliance X3-2 Bare Metal Deployments

Review the following rules and restrictions before changing the CPU core count:

- If you are running Oracle Appliance Manager 2.8 or lower, then you can change the CPU core count to 4, 8, 12, or 16 for each server.
- You can change the CPU core count to 2, 4, 6, 8, 10, 12, 14, or 16 for each server if you are running Oracle Appliance Manager 2.10 or higher.
- If you change the CPU core count, then you can subsequently only increase the CPU core count.

For example, if you change the CPU core count to 8, then you can subsequently change the CPU core count to 12 or 16. If you later change the CPU core count to 12, then you can subsequently change the CPU core count to 16.

- If your desired CPU core count is 16 for each server, then use the default configuration. Do not follow the procedure described in "Setting the CPU Core Count on Oracle Database Appliance X3-2 Bare Metal Deployments" to set the CPU core count to 16. Using the default configuration enables you to change the CPU core count at a later time to a number less than 16.

Note: If you mistakenly followed the procedure to set your CPU core count to 16, thereby preventing you from subsequently increasing your CPU core count, and the error is caught immediately, then contact Oracle Support to remedy the situation.

Setting the CPU Core Count on Oracle Database Appliance X3-2 Bare Metal Deployments

This section describes how to set the CPU core count on Oracle Database Appliance X3-2 bare metal deployments.

To set the CPU core count:

1. Log in to My Oracle Support at:
<https://myoraclesupport.com>
2. Click the **Settings** tab, and select **Assets** from the submenu.
3. Search for the serial number of the appliance in the asset list. If you cannot locate the serial number, then contact Oracle Support.

4. Select the serial number of the appliance.
5. Select **Manage Key** from the available actions.
6. In the Manage Cores Configuration Key dialog box, you can view the serial number of the appliance. If a key was previously generated, then you can view the current configuration.
7. In the **Cores Per Server** drop-down list, select the desired number of enabled CPU cores for each server. The value you select will apply to both servers on the appliance. Initially, you can select 4, 8, 12, or 16. Subsequently, you can only select a number that is greater than the current number.
8. Click **Generate Key** to generate the key.
9. Click **Copy Key to Clipboard** to copy the key to the clipboard.
10. Paste the key into an empty text file and save the file to a location on the Oracle Database Appliance.
11. Log in to one of the servers on Oracle Database Appliance as `root`.
12. Run the following command to reboot the server to complete the reconfiguration where *key_file_location* is the full path name of the text file that you created in Step 7:

```
/opt/oracle/oak/bin/oakcli apply core_configuration_key /home/  
myfile.txt
```

After the system restarts, Oracle Database Appliance is reconfigured, and both servers to run with the specified CPU core count. Always assign cores to Oracle Database Appliance X3-2 bare metal deployments in multiples of four, with a minimum of four cores.

Capacity-On-Demand Licensing for Oracle Database Appliance V1

This topic describes capacity-on-demand licensing for Oracle Database Appliance V1

Oracle Database Appliance V1 consists of two servers and each server has 12 CPU cores. By default, Oracle Database Appliance ships with all cores enabled on both servers, that is:

- 12 CPU cores are enabled on each of the two servers
- You have a total of 24 enabled CPU cores

You can use the default CPU core count of 12 for each server, or you can change the CPU core count. To change the by following the procedure in "Setting the CPU Core Count on Oracle Database Appliance Bare Metal Deployments." For example, if you change the CPU core count to 8 for each server, then

- 8 CPU cores are enabled on each of the two servers
- You have a total of 16 enabled CPU cores

Rules and Restrictions for Setting CPU Core Count on Oracle Database Appliance Bare Metal Deployments

Review the following rules and restrictions before changing the CPU core count:

- You can change the CPU core count to 2, 4, 6, 8, 10, or 12 for each server.
- If you change the CPU core count, then you can subsequently only increase the CPU core count. Use the procedure for your Oracle Database hardware (X3-2, X4-2, or X5-2).

For example, if you change the CPU core count to 6, then you can subsequently change the CPU core count to 8, 10, or 12. If you later change the CPU core count to 8, then you can subsequently change the CPU core count to 10 or 12.

- If your desired CPU core count is 12 for each server, then use the default configuration. Do not follow the procedure in "Setting the CPU Core Count on Oracle Database Appliance Bare Metal Deployments" to set the CPU core count to 12. Using the default configuration enables you to later change the CPU core count to a number less than 12, if desired.

Note: If you mistakenly followed the procedure to set your CPU core count to 12, thereby preventing you from subsequently increasing your CPU core count, and the error is caught immediately, then contact Oracle Support.

Setting the CPU Core Count on Oracle Database Appliance V1 Bare Metal Deployments

This topic describes how to set the CPU core count on Oracle Database Appliance V1 Bare Metal Deployments.

To set the CPU core count:

1. Log in to My Oracle Support at: <https://myoraclesupport.com>.
2. Click the **Settings** tab and select **Assets** from the submenu.
3. Search for the serial number of the appliance in the asset list. If you cannot locate the serial number, then contact Oracle Support.
4. Select the serial number of the appliance.
5. Select **Manage Key** from the available actions.
6. In the Manage Cores Configuration Key dialog box, you can view the serial number of the appliance. If a key was previously generated, then you can view the current configuration.
7. In the Cores Per Server list, select the desired number of enabled CPU cores for each server. The value that you select applies to both servers on the appliance. Initially, you can select 2, 4, 6, 8, 10, or 12. Subsequently, you can only select a number that is greater than the current number.
8. Click **Generate Key** to generate the key.
9. Click **Copy Key** to Clipboard to copy the key to the clipboard.
10. Paste the key into an empty text file and save the file to a location on the Oracle Database Appliance.
11. Log in to one of the servers on Oracle Database Appliance as `root`.

12. Run the following command to restart the server to complete the reconfiguration, where *key_file_location* is the full path name of the text file that you created in Step 7:

```
/opt/oracle/oak/bin/oakcli apply core_configuration_key  
key_file_location
```

For example:

```
/opt/oracle/oak/bin/oakcli apply core_configuration_key /home/  
myfile.txt
```

After the system restarts, Oracle Database Appliance is reconfigured, and both servers run with the specified CPU core count. Always assign cores to Oracle Database Appliance bare-metal deployments in multiples of two, with a minimum of two cores.

Third-Party Product Licenses

This chapter contains the licenses for the third-party products that are included with Oracle Database Appliance.

Oracle Database Appliance includes the third-party products that are used in Oracle Database 11g Release 2 (11.2 and 11.3) and Oracle Database 12c Release 1 (12.1). To view the licenses for these third-party products, refer to Oracle Database Licensing Information 11g Release 2 (11.2), Oracle Database Licensing Information 11g Release 3 (11.3), and Oracle Database Licensing Information 12c Release 1 (12.1).

Oracle Database Appliance includes the third-party products that are used in Oracle Integrated Lights Out Manager 3.2. To view the licenses for these third-party products, refer to *Licensing Information User Manual Oracle ILOM*.

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