

ORACLE

Oracle Database Licenses

Sales Academy – Get started knowledge transfer

Marcel Lamarca

Exadata Cloud Specialist
Oracle, Alliances & Channels
LAD

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ISV's Specialist
Oracle, Alliances & Channels
LAD

March, 2024



SQL> select * from person where name = 'Marcel Lamarca'




MARCEL LAMARCA

Exadata Cloud Specialist

Upgrade, Utilities, Patching, Performance & Migrations

 [marcel-lamarca](#)

 marcel.lamarca@oracle.com

About My Career

- 22 Years dedicated to study and support Oracle Databases.
- 13 Years working with Exadata (On-prem, C@C and Cloud Services) .
- 5 Year working for Oracle do Brasil
- 2 Year on Alliances LAD knowledge Team

Certifications

Oracle Cloud Specialist (OCS)

- Exadata Database Machine X9M Certified Specialist
- OCI Foundation 2020 / 2023
- Oracle Autonomous Database Administrator Professional 2019 / 2023
- Oracle Cloud Database Migration and Integration 2021
- OCI Cloud Certified Architect Associate 2022
- OCI Cloud Certified Architect Professional 2022
- OCI Multi-Cloud Architect Professional 2023
- Oracle Database Services Certified Professional 2023

Oracle Certified Professional (OCP)

- Oracle Database certified professional 10g, 11g, 12c and 19c.
- Mysql 8.0 Database Administrator Certified Professional

Oracle Certified Specialist (OCE)

- Grid/RAC Database Administrator 11g
- Oracle Golden Gate 12c Certified Implementation Specialist



```
SQL> select * from person where name = 'Andre Sousa'
```



Janes and Raul's father, Son, Husband 25 years, dba old school

Graduated in Information Systems

I live a little away from everything even before the world changes

I'm working in Oracle for 21 with Oracle Database products adoption in South America, work mainly with ISVs and SIs helping them on different activities such as POCs, Application Validations, Tuning, he participated as advisor in more than 100 Migration and Upgrade projects.

Oracle Certified Professional 11g (OCP)



andre.sousa@oracle.com

Agenda

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Licenses concepts

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License Metrics
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Oracle Cloud

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Manager
BYOL
License included
Universal Credits

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Oracle Database

Standard Edition
Enterprise Edition
Oracle Price List



Licenses Basic components

Oracle Database topics to be consider



**Oracle Database
Product**



**Infrastructure
Platform**



**Oracle Database
Edition**



**Oracle Database
Version**



General Licensing Information Environments



Development

[Check Database Dev Policy
Here](#)



**Quality Assurance, Testing &
Staging**

[Check Testing Policy here](#)



Disaster Recovery
Document database

[Check DR Policy Doc here](#)

Licensing issues are not presented only in production environments!

Oracle Processor concepts

CPU



Central Processor unit

May contain one or more
cores

Used as metric for Oracle
Database Standard Edition 2

VCPU



CORE



OCPU



CPU



Central Processor unit

May contain one or more
cores

Used as metric for Oracle
Database Standard Edition 2

VCPU



Virtual Central processor unit

Can be a core or a thread

Used as metric for others
Cloud providers

CORE



OCPU



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Virtual Central processor unit

Can be a core or a thread

Used as metric for others
Cloud providers

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Virtual or physical subdivision
of a CPU

Can be a core or a thread

Used as metric for Oracle
Database Enterprise Edition

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of a CPU

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Database Enterprise Edition

OCPU



Processing Unit that Oracle
Uses to create Services on
OCI

Used for BYOL and core factor
table



Software Licensing Metrics

Oracle Full Use license

Full Use license is without restrictions and allows usage that is full functionality.

you don't have Limitations to install third applications including Oracle Tools.

Application Specific Full (ASFU)

Use is specific to run only with the defined application and may come with additional restrictions.

Share the same Datatabe with another applications and tools are not allowed.

Application Examples : **SAP, Oracle Business Suite, ISV**

Not Allowed examples :

- **Sqlplus connections**
- **Golden Gate connections**
- **Sql Developer connections**

Oracle **Named User Plus** VS **Processor Metric** Definition

Named User Plus (NUP)

Metric is defined as individuals authorized to use Oracle programs installed on single or multiple servers. Licensing considerations include:

- **Human** and **non-human** operated devices are counted towards NUP license
- **Batch processing** from computer to computer is permitted and does not require counting users at the front of the batch process



Processor Metric

The Processor metric is used to license all processors where Oracle programs are installed and/or running.

- Most **Standard Edition** products are licensed by Processor, which for Standard Edition programs is defined as a socket
- **Enterprise Edition** and other technology products may be licensed by cores





- Oracle strongly recommends check on-line documentation to be aware of all recent changes

- Core factor is used to calculate Database Enterprise Features too

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Oracle Database Editions

Database Standard Edition

Oracle Database 19c Standard Edition 2 has some limitations compared to the Enterprise Edition.

- Licensed by physical socket (core Factor not allowed)
- Oracle consider the socket factor limited by 2 sockets
- **Standard Edition** model using **NUP** metric requires at least **>10 users**

Oracle Database Enterprise Edition

Is the most complete version of Oracle database software, **core-based** licensing.

- There is no limit for core usage
- The delta to calculate CPU licenses is :
(# of cores x core factor = # of Processor licenses)
- **Enterprise Edition** model using NUP metric requires at least >25 users per **processor licences**



Oracle Database **Standard** Edition VS **Enterprise** Edition

Security Features/Option	Enterprise Edition	Standard Edition
Database Security Assessment Tool	✓	✓
Data Safe	✓	✓
Password Profiles	✓	✓
Strong Authentication	✓	✓
Network Encryption	✓	✓
Oracle RAC	✓	✗
Oracle RAC one node	✓	✗
Unified Audit	✓	✓
Oracle Active Data Guard	✓	✗
Transparent Data Encryption	✓	✗
Management Pack for Oracle Database	✓	✗
Oracle Diagnostics Pack	✓	✗
Oracle Tuning Pack	✓	✗
Oracle Partition	✓	✗
Oracle Advanced compression	✓	✗
Real Application Test	✓	✗

Oracle Database Versions, Editions, limitations and features



DATABASE

i

Features and Licensing

The 23c information on this site pertains to Oracle Database 23c (23.3), which is available on the following offerings: **Free**, **BaseDB EE**, **BaseDB EE-HP**, and **BaseDB EE-EP**. Any 23c information for other offerings is not applicable at this time.

Features

Licensing

Search

Search Features, Options, or Packs

Offerings

☐ Oracle Database Free

☐ Standard Edition 2

☒ Enterprise Edition

Feature, Option, or Pack	EE	EXA
<div>Oracle Active Data Guard</div> <div>High AvailabilityOption</div>	<div>✓</div>	<div>✓</div>
<div>Oracle Advanced Compression</div> <div>VLDB, Data Warehousing, and Business IntelligenceOption</div>	<div>✓</div>	<div>✓</div>
<div>Oracle Advanced Security</div> <div>SecurityOption</div>	<div>✓</div>	<div>✓</div>



Oracle Database on virtualized environments



What is Partitioning?

“Partitioning” occurs when the CPUs on a server are separated into individual sections where each section acts as a separate system.

There are several hardware and **software virtualization** technologies available that deliver partitioning capabilities, with varying degree of resource allocation flexibility.”

Why Partition ?



- Database Administrators (DBAs) often partition servers to achieve the following benefits:
- Ability to run multiple operating systems, or multiple versions of an operating system, on the same server
- Ability to improve workload balancing and distribution by managing processor allocations across applications and users on the server
- Ability to leverage hardware models such as "Capacity on Demand" and "Pay As You Grow."



Hard Partitioning

Hard partitioning physically segments a server, by taking a single large server and separating it into distinct smaller systems.

Each separated system acts as a physically independent.

Examples :

- Hard Partitioning - LPAR
- Hard Partitioning - LDOM

Soft Partitioning

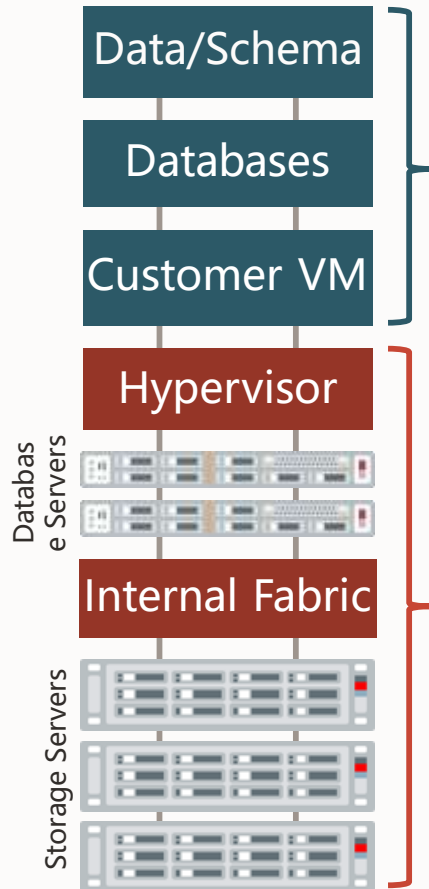
Soft partitioning segments the operating system using OS resource managers.

The operating system limits the number of CPUs where an Oracle database is running by creating areas where CPU resources are allocated.

Examples :

- Soft Partitioning - VSphere
- Soft Partitioning - HyperV

Understanding Trusted Partitioning on OCI



Customer subscribes to database services

- Oracle Recognizes **Hypervisor Technology**
- You can add Processors with no need to cover all Physical cores
- Oracle staff are not authorized to access customer VM

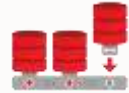
Oracle owns and manages infrastructure on OCI Databases

- Hypervisor, database and storage servers, storage network
- Patching, security scans, security updates
- Monitoring and maintenance
- Customer not authorized to access Oracle infrastructure



Oracle Database Features

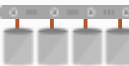
Oracle Database and most used features options



Multitenant



In-Memory DB



Real Application Clusters



Active Data Guard



Partitioning



Advanced Compression



Advanced Security, Label Security, DB Vault



Real Application Testing

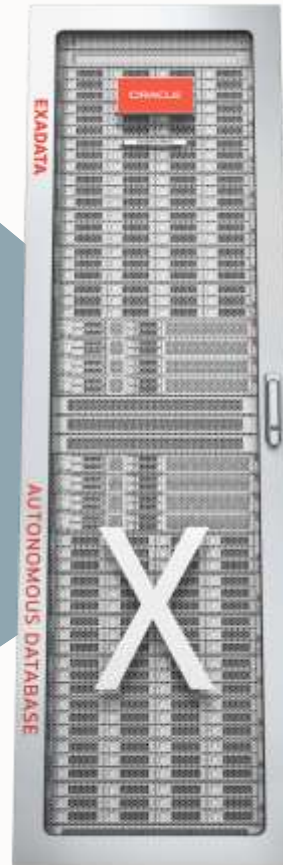


Advanced Analytics, Spatial and Graph



Management Packs for Oracle Database

All Oracle Database Innovations



**What feature
your
environment
needs ?**

- **How To Verify Which Database Features are Used** (Doc ID 459837.1)

GOAL

This article explains how you can check which options or features are used in the database. This is particularly useful for licensing purposes or when you want to de-install a certain option.

SOLUTION

This can be achieved through the DBA_FEATURE_USAGE_STATISTICS view. This view will list the feature usage on a per patchset basis. So the combination of feature name and version is unique.

Typically one can verify the features used using the following query:

```
select *  
from DBA_FEATURE_USAGE_STATISTICS  
where detected_usages > 0  
order by name, version;
```

To get a list of options that are not in use:

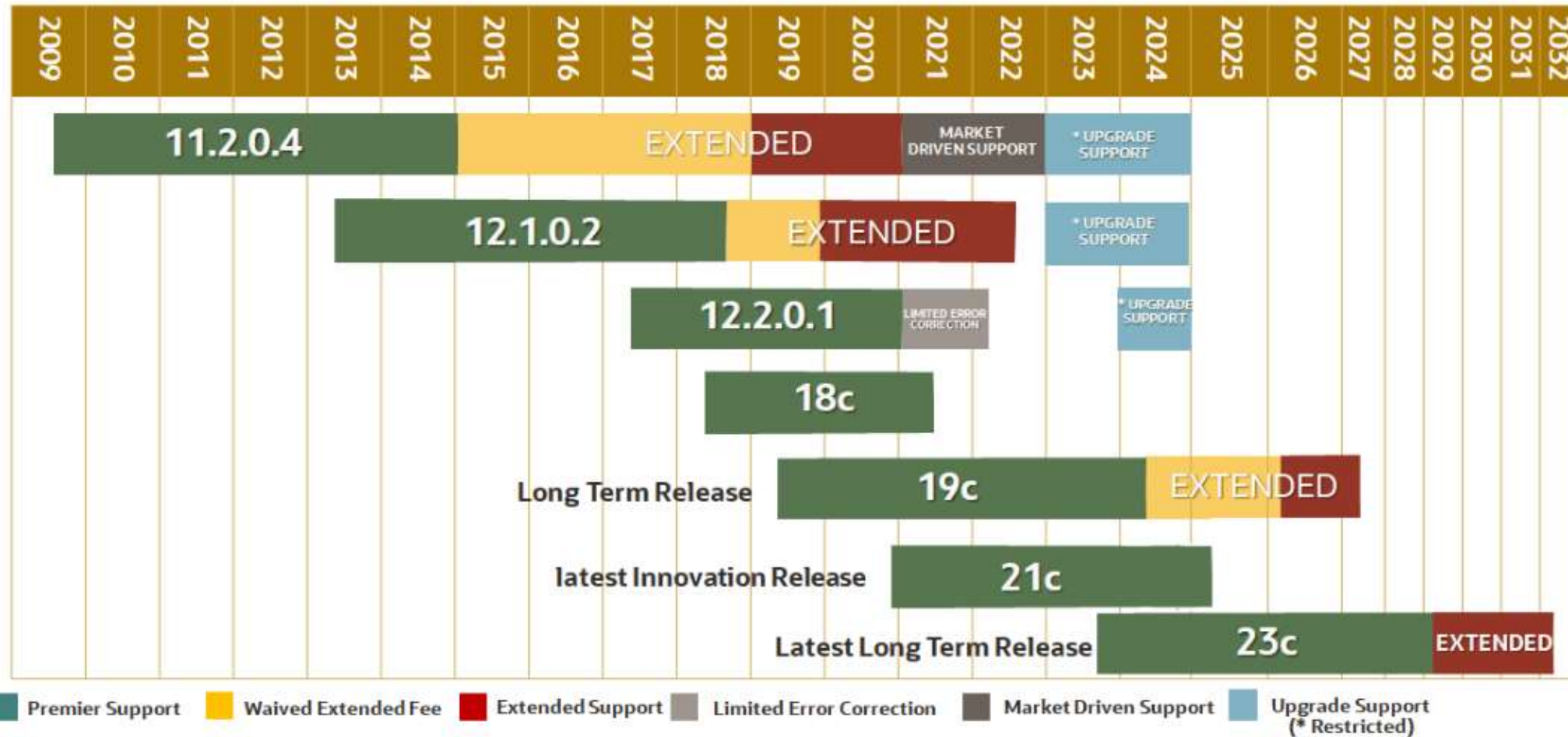
```
select *  
from DBA_FEATURE_USAGE_STATISTICS  
where detected_usages = 0  
order by name, version;
```

Note: If the DBID has been changed via nid command, the query against the DBFUS view MUST include the current DBID otherwise the results returned will be incorrect.

For a more detailed report on the option details and their usages, please see

Oracle Database Releases and timeline

My Oracle Support Official Note (Doc ID 742060.1)



Oracle Products Support life Time



- Major product and technology releases
- Technical support
- My Oracle Support
- Updates, fixes, security alerts, data fixes, and critical patch updates
- Tax, legal, and regulatory updates
- Upgrade scripts
- Certification with most new third-party products/versions
- Certification with most new Oracle products

Understanding Price List

Understanding price list table

Section I

	Prices in USA (Dollar)			
	Named User Plus	Oracle Database Software Update License & Support	Processor License	Software Update License & Support
Database Products				
Oracle Database				
Standard Edition 2	350	77.00	17,500	3,850.00
Enterprise Edition	950	209.00	47,500	10,450.00
Personal Edition	460	101.20	-	-
Mobile Server	-	-	23,000	5,060.00
NoSQL Database Enterprise Edition	200	44	10,000	2,200.00
Enterprise Edition Options:				
Multitenant	350	77.00	17,500	3,850.00
Real Application Clusters	460	101.20	23,000	5,060.00
Real Application Clusters One Node	200	44.00	10,000	2,200.00
Active Data Guard	230	50.60	11,500	2,530.00
Partitioning	230	50.60	11,500	2,530.00
Real Application Testing	230	50.60	11,500	2,530.00
Advanced Compression	230	50.60	11,500	2,530.00
Advanced Security	300	66.00	15,000	3,300.00
Label Security	230	50.60	11,500	2,530.00
Database Vault	230	50.60	11,500	2,530.00
OLAP	460	101.20	23,000	5,060.00
TimesTen Application-Tier Database Cache	460	101.20	23,000	5,060.00
Database In-Memory	460	101.20	23,000	5,060.00
Database Enterprise Management				
Diagnostics Pack	150	33.00	7,500	1,650.00
Tuning Pack	100	22.00	5,000	1,100.00
Database Lifecycle Management Pack	240	52.80	12,000	2,640.00
Data Masking and Subsetting Pack	230	50.60	11,500	2,530.00
Cloud Management Pack for Oracle Database	150	33.00	7,500	1,650.00

Licensing Oracle Enterprise Database Sample

15 Warehouse Distribution Scanners



25 Delivery Employees using held devices



Oracle Database EE



Custom Application

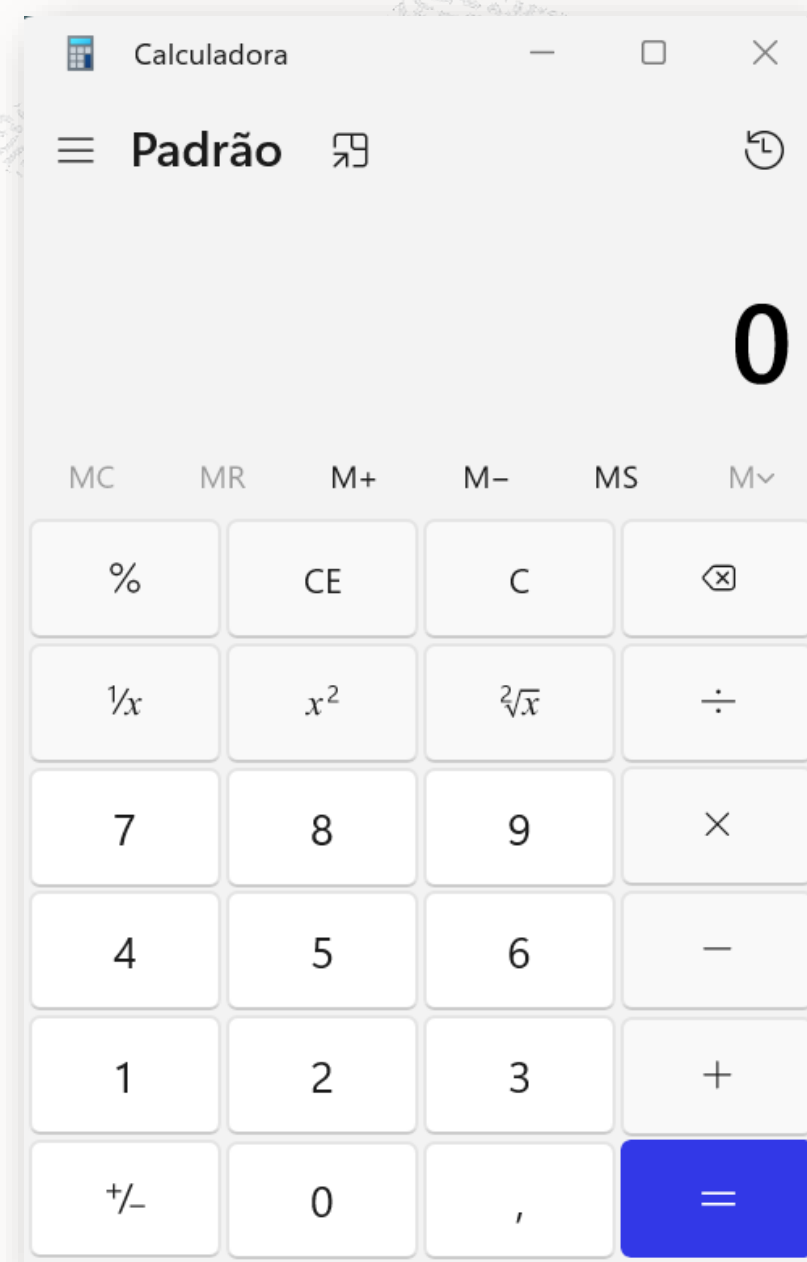
4 Processors

- Current distribution company has **40 named users** between Employees and Warehouse scanners.

Oracle Database Enterprise Edition is running on :

- **2** Processors server
- **12** Cores per processor
- **0.5** Core Factor

Let's check some numbers ?





Oracle Processor Core Factor Table

Effective Date: March 16, 2009

Updated: September 5, 2023

Vendor and Processor	Core Processor Licensing Factor
Sun and Fujitsu UltraSPARC T1 processor (1.0 or 1.2 GHz) Only named servers including: Sun Fire T1000 Server, SPARC Enterprise T1000 Server*, with 6 or 8-core 1.0 GHz UltraSPARC T1 processor Sun Fire T2000 Server, SPARC Enterprise T2000 Server*, with 4, 6, or 8-core 1.0 GHz, or 8 core 1.2 GHz UltraSPARC T1 processor	0.25
Sun Netra T2000, 1.0 or 1.2 GHz UltraSPARC T1 processor	0.25
SPARC T3 processor	0.25
Ampere: Altra/AltraMax and AmpereOne	0.25
All other ARM	1.0
Sun and Fujitsu UltraSPARC T1 1.4 GHz Only named servers including: Sun Fire T2000 Server and SPARC Enterprise T2000 Server*, with 8-core, 1.4 GHz UltraSPARC T1 processor	0.5
Sun T6300, 1.4 GHz UltraSPARC T1 processor	0.5
AMD EPYC™ 7XX1, 7XX2, 7XX3, 9XX4 and AMD Opteron™ Models 13XX, 23XX, 24XX, 32XX, 41XX, 42XX, 43XX, 61XX, 62XX, 63XX, 83XX, 84XX, or earlier Multicore chips	0.5
Intel® Xeon® Platinum 92XX, Intel® Xeon® Platinum 84XX+/H/N/P/Q/V/Y/Y+, Intel® Xeon® Platinum HPC MAX 94XX, Intel® Xeon® Platinum 83XXH/HL/M/P/Q/S/V/Y, Intel® Xeon® Platinum 82XX, Intel® Xeon® Platinum 81XX, Intel® Xeon® Gold 64XX+/H/M/N/Q/S/U/Y/Y+, Intel® Xeon® Gold 63XXH/HL/N/T/Y, Intel® Xeon® Gold 62XX, Intel® Xeon® Gold 61XX, Intel® Xeon® Gold 54XX+/N/S/U/Y, Intel® Xeon® Gold 53XX/H/S/T/Y/N, Intel® Xeon® Gold 52XX, Intel® Xeon® Gold 51XX, Intel® Xeon® Silver 44XX/T/Y/+ Intel® Xeon® Silver 43XX/T/Y, Intel® Xeon® Silver 42XX, Intel® Xeon® Silver 41XX, Intel® Xeon® Bronze 34XXU, Intel® Xeon® Bronze 32XX, Intel® Xeon® Bronze 31XX, Intel Xeon Series 56XX, Intel Xeon E-21XX, E-21XXG, E-22XX, E-22XXG, E-23XX, E-23XXG, Series 65XX, Series 75XX, Series E7-28XX, E7-28XX v2, Series E7-48XX, E7-48XX v2, E7-48XX v3, E7-48XX v4, Series E7-88XX, E7-88XX v2, E7-88XX v3, E7-	0.5

0.5 Core Factor



(# of cores x core factor = # of Processor licenses)

- 2 Processors server
- 12 Cores per processor
- 0.5 Core Factor

$$2 \text{ Processor} \times 12 \text{ Cores} = 24 \text{ Cores}$$

$$24 \text{ Cores} \times 0.5 \text{ Core factor} = 12 \text{ Processor licenses required}$$

By Core Factor

By Named User NUP

$$12 \text{ Processor licenses} \times 25 \text{ (user minimum)} = 300 \text{ Named User Plus user}$$



Oracle Processor Core Factor Table

Effective Date: March 16, 2009

Updated: September 5, 2023

Vendor and Processor	Core Processor Licensing Factor
Sun and Fujitsu UltraSPARC T1 processor (1.0 or 1.2 GHz) Only named servers including: Sun Fire T1000 Server, SPARC Enterprise T1000 Server*, with 6 or 8-core 1.0 GHz UltraSPARC T1 processor Sun Fire T2000 Server, SPARC Enterprise T2000 Server*, with 4, 6, or 8-core 1.0 GHz, or 8 core 1.2 GHz UltraSPARC T1 processor	0.25
Sun Netra T2000, 1.0 or 1.2 GHz UltraSPARC T1 processor	0.25
SPARC T3 processor	0.25
Ampere: Altra/AltraMax and AmpereOne	0.25
All other ARM	1.0
Sun and Fujitsu UltraSPARC T1 1.4 GHz Only named servers including: Sun Fire T2000 Server and SPARC Enterprise T2000 Server*, with 8-core, 1.4 GHz UltraSPARC T1 processor	0.5
Sun T6300, 1.4 GHz UltraSPARC T1 processor	0.5
AMD EPYC™ 7XX1, 7XX2, 7XX3, 9XX4 and AMD Opteron™ Models 13XX, 23XX, 24XX, 32XX, 41XX, 42XX, 43XX, 61XX, 62XX, 63XX, 83XX, 84XX, or earlier Multicore chips	0.5
Intel® Xeon® Platinum 92XX, Intel® Xeon® Platinum 84XX/+/H/N/P/Q/V/Y/Y+, Intel® Xeon® Platinum HPC MAX 94XX, Intel® Xeon® Platinum 83XXH/HL/M/P/Q/S/V/Y, Intel® Xeon® Platinum 82XX, Intel® Xeon® Platinum 81XX, Intel® Xeon® Gold 64XX/+/H/M/N/Q/S/U/Y/Y+, Intel® Xeon® Gold 63XXH/HL/N/T/Y, Intel® Xeon® Gold 62XX, Intel® Xeon® Gold 61XX, Intel® Xeon® Gold 54XX/+/N/S/U/Y, Intel® Xeon® Gold 53XX/H/S/T/Y/N, Intel® Xeon® Gold 52XX, Intel® Xeon® Gold 51XX, Intel® Xeon® Silver 44XX/T/Y/+ Intel® Xeon® Silver 43XX/T/Y, Intel® Xeon® Silver 42XX, Intel® Xeon® Silver 41XX, Intel® Xeon® Bronze 34XXU, Intel® Xeon® Bronze 32XX, Intel® Xeon® Bronze 31XX, Intel Xeon Series 56XX, Intel Xeon E-21XX, E-21XXG, E-22XX, E-22XXG, E-23XX, E-23XXG, Series 65XX, Series 75XX, Series E7-28XX, E7-28XX v2, Series E7-48XX, E7-48XX v2, E7-48XX v3, E7-48XX v4, Series E7-88XX, E7-88XX v2, E7-88XX v3, E7-	0.5

1.0 Core Factor



(# of cores x core factor = # of Processor licenses)

- 2 Processors server
- 12 Cores per processor
- 1.0 Core Factor

$$2 \text{ Processor} \times 12 \text{ Cores} = 24 \text{ Cores}$$

$$24 \text{ Cores} \times 1.0 \text{ Core factor} = 24 \text{ Processor licenses required}$$

By Core Factor

By Named User NUP

$$24 \text{ Processor licenses} \times 25 \text{ (user minimum)} = 600 \text{ Named User Plus user}$$

OCI Database Licensing Model

Cost-Effective Software Licensing Models

Subscribe to infrastructure and choose License Included or Bring Your Own License (BYOL)

License Included Pricing

Ideal for organizations with new workloads and dynamic utilization

- Includes Oracle Database Enterprise Edition with all options and management packs at one low price
- Consumption-based pricing for software and vCPUs, includes software support and paid for with Universal Credits



Bring Your Own License Pricing

Ideal for organizations moving existing workloads with consistent usage to the cloud

- Utilize existing on-premises licenses and pay software support for them
- Very-low, compute-only consumption pricing, paid for with Universal Credits
- Includes Transparent Data Encryption, Data Safe, Oracle Machine Learning, and select management packs at no additional cost

You can change license type using OCI Console

Update license and Oracle Database edition

[Help](#)

Choose a license type

Bring your own license (BYOL)

Bring your organization's Oracle Database software license to Oracle Cloud Infrastructure. [Learn more.](#) ✓

License included

Subscribe to a new Oracle Database software licenses and the Oracle Database Service.

Choose an Oracle Database edition

Oracle Database Enterprise Edition (EE)


User-selected OCPU limit. [Learn more.](#) ✓

Oracle Database Standard Edition (SE)

Up to 8 OCPUs, including auto scale. [Learn more.](#)

Save

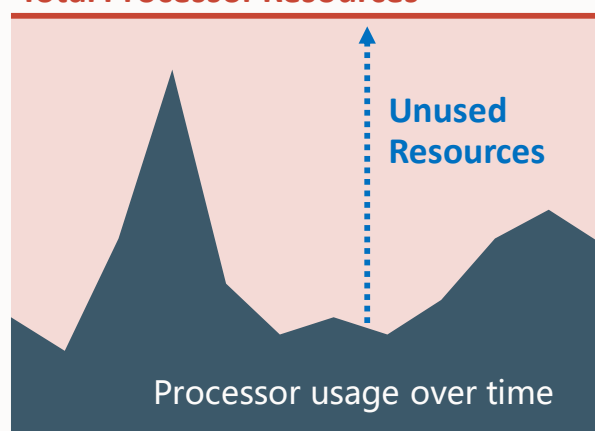
[Cancel](#)



Online, Elastic Scaling with Exadata and Autonomous Database Services

Pay only for what you use, in OCI or your data center

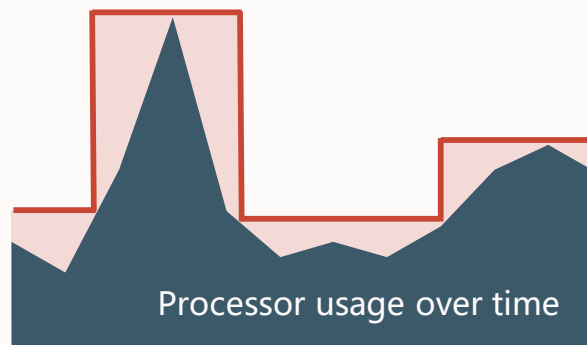
Total Processor Resources



On-Premises & Other Clouds – Static

Purchase server processors and software licenses for **highest projected peak load**

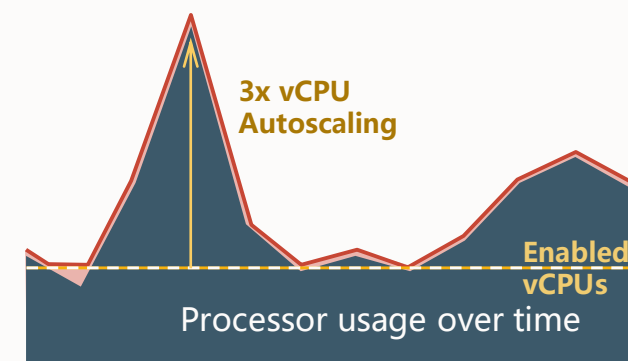
Manually Scaled CPU cores



Exadata Database Service – Elastic

Adjust enabled CPUs to match **actual workload** via APIs and web UI - CPUs are charged per second

Autonomously Scaled CPU cores



Autonomous Database – Self-scaling

Automatically scales CPU core consumption based on **dynamic workload demands**, in real-time



Oracle PaaS and IaaS Universal Credits Description



Pay as You Go (PAYG)

- No upfront commitment
- Pay only for what you use
- Pay in arrears based on usage
- Built for land and expand

Universal Credits

- Agreed-to monthly spend
- Additional discounts based on size and term of deal
- Elastic payments based on usage



Autonomous Database Billing

Autonomous Database **ECPU** billing



- The introduction of ECPU's is simply a new pricing metric. Using an ECPU Autonomous Database is essentially identical to an OCPU Autonomous Database
- The OCPU billing metric has been retired on Autonomous Data Warehouse and Autonomous Transaction Processing as of January 2024
- ECPU's provide similar or better price-performance than OCPU's for a given Autonomous Database workload.



Retirement Of The OCPU Billing Metric In Autonomous Database Serverless (Doc ID 2998742.1)

ACTIONS

What action do I need to take now?

We encourage customers to provision all new Autonomous Data Warehouse and Autonomous Transaction Processing databases or clones with the ECPU billing metric. We also encourage customers to update all existing databases to the ECPU billing metric, which is a simple and seamless button click or API call, as described in the documentation here. While you may choose not to update your existing databases' billing metric at this time, Oracle may convert your databases from the OCPU billing metric to the ECPU billing metric in the future.

Note: Autonomous Data Warehouse databases provisioned as part of Oracle Data Intelligence Platform (formerly Fusion Analytics Warehouse) service instance will be updated to the ECPU billing metric by Oracle. No user action is required on those databases.

How will updating my databases to the ECPU billing metric affect my service?

Updating your Autonomous Database Serverless to the ECPU billing metric will have **no impact to your service** and incur **no downtime**.

Which SKUs are affected by this retirement notice?

Oracle Autonomous Database will be retiring the OCPU-based SKUs and replacing them with the ECPU-based SKUs listed below:

Retired OCPU Billing Metric - SKU Name	Part Number	Metric
Oracle Autonomous Data Warehouse	B89040	OCPU Per Hour
Oracle Autonomous Data Warehouse - BYOL	B89039	OCPU Per Hour



Retirement Of The OCPU Billing Metric In Autonomous Database On Dedicated Infra (Doc ID 2998755.1)

ACTIONS

What action do I need to take now?

We encourage users to provision new Autonomous VM Clusters (AVM) with the ECPU billing metric. Oracle will offer an online conversion capability to update existing OCPU AVMs and their respective Autonomous Container Databases and Autonomous Databases to the ECPU billing metric via the OCI console and API in Q3 CY2024. In the meantime, users can also use database cloning to migrate existing OCPU ADBs to ECPU if they have AVMs configured with the ECPU billing metric. While you may choose not to update your existing databases' billing metric at this time, Oracle may convert your databases from the OCPU billing metric to the ECPU billing metric in the future.

Which SKUs are affected by this retirement notice?

Oracle Autonomous Database on Dedicated Infrastructure will be retiring the OCPU-based SKUs and replacing them with the ECPU-based SKUs listed below:

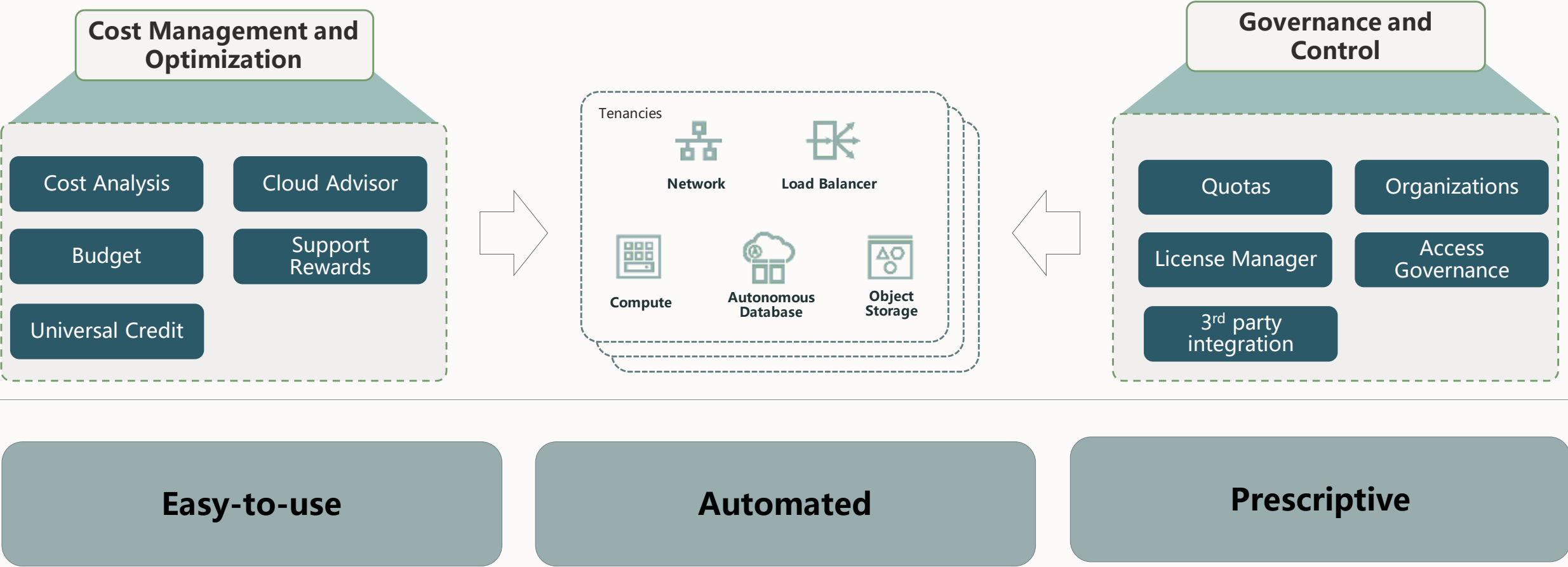
Retired OCPU Billing Metric - SKU Name	Part Number	Metric
Oracle Autonomous Data Warehouse - Dedicated	B92182	OCPU Per Hour
Oracle Autonomous Data Warehouse – Dedicated - BYOL	B92184	OCPU Per Hour
Oracle Autonomous Transaction Processing - Dedicated	B92181	OCPU Per Hour
Oracle Autonomous Transaction Processing – Dedicated - BYOL	B92183	OCPU Per Hour



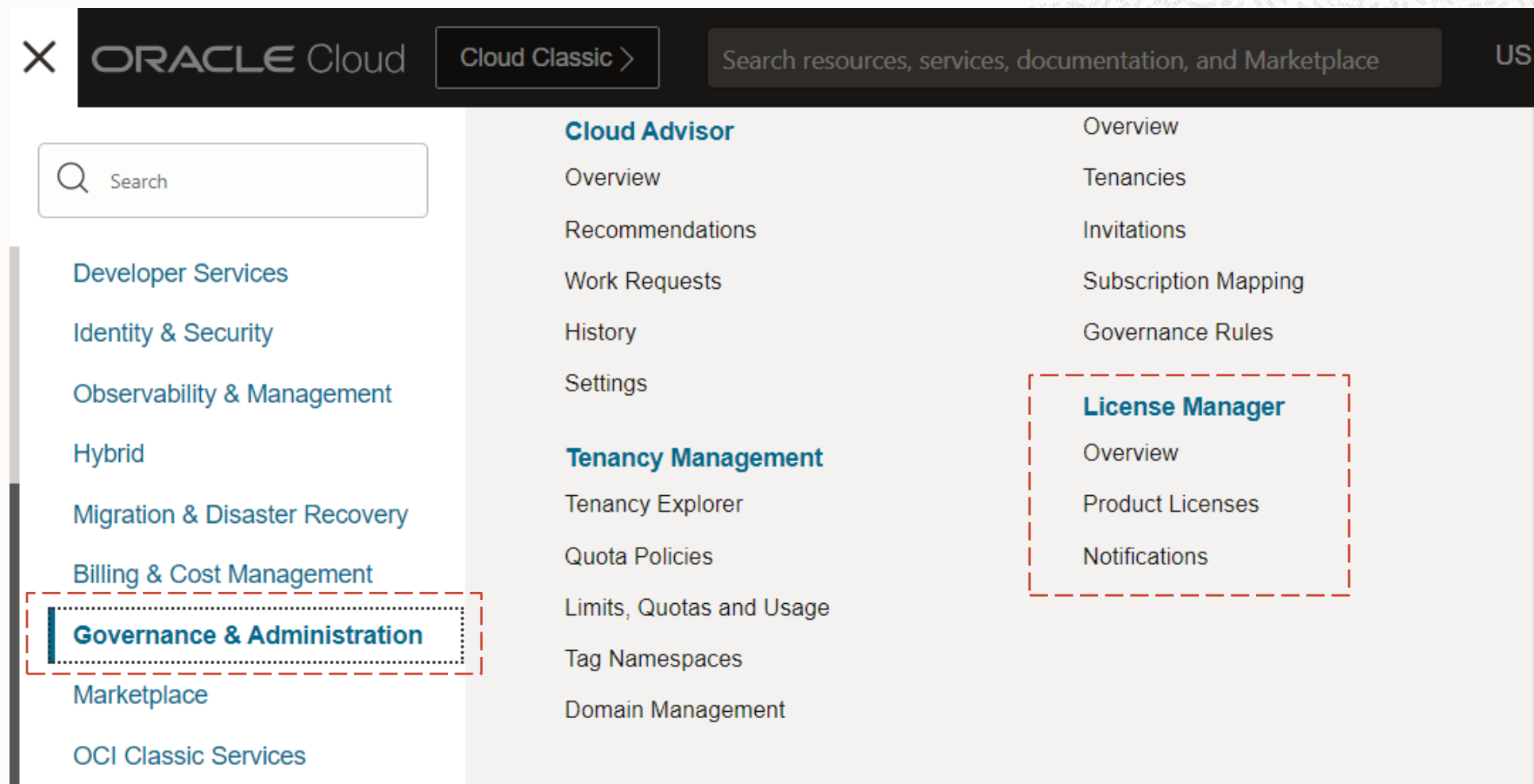
OCI License Manager

Oracle's Cost Management and Governance Strategy

Core principle to guide cloud leaders into best practices



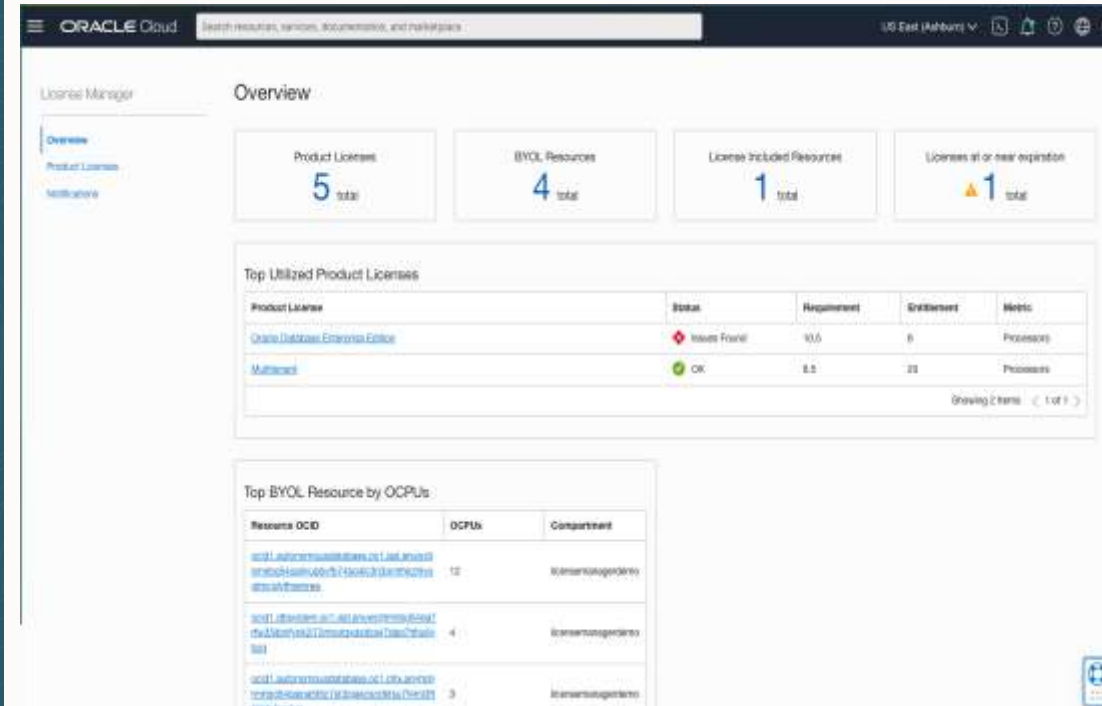
Oracle License Manager on OCI Console



License Manager

License Manager is a free, opt-in service that makes it easier for you to Bring Your Own License (BYOL) on OCI with the following capabilities:

- Automating the license portability rules for Oracle Database products to OCI Database service
- Single pane of glass to track licensing needs on both IaaS and PaaS resources. Use the same tool to track Oracle and Third-party license utilization
- Pro-active email notification on over-subscription and license expiration scenarios.



Oracle License Manager Configuration steps

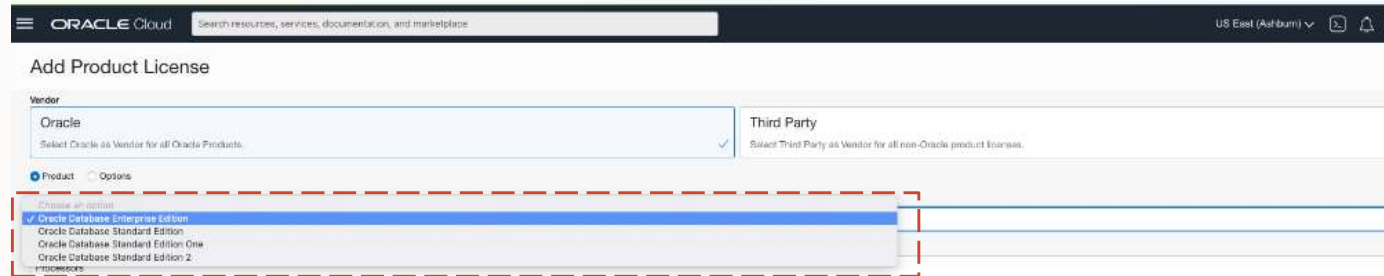


Step 1 : Click Add Product License button.



Step 2 : Select between Oracle and third party for License creation.

Oracle License Manager Configuration steps



The screenshot shows the 'Add Product License' page in the Oracle Cloud console. The 'Vendor' dropdown is set to 'Oracle'. The 'Product' radio button is selected. A red dashed box highlights the 'Choose an option' dropdown menu, which is open and shows the following options: 'Oracle Database Enterprise Edition' (selected with a blue checkmark), 'Oracle Database Standard Edition', 'Oracle Database Standard Edition One', and 'Oracle Database Standard Edition Two'. The 'Third Party' section is visible but not selected.

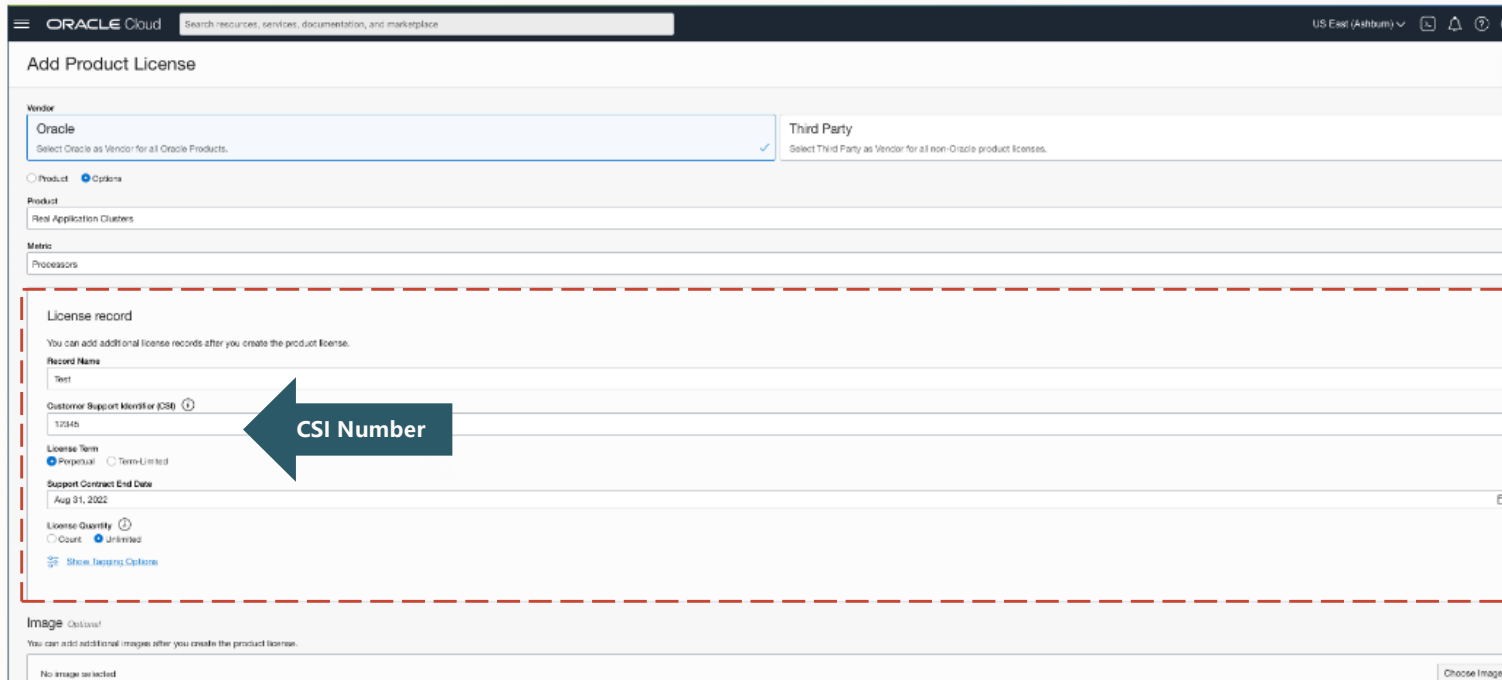
Step 3 : Select an Oracle Database Product Edition.
Samples : **Enterprise Edition, Standard Edition.**



The screenshot shows the 'Add Product License' page in the Oracle Cloud console. The 'Vendor' dropdown is set to 'Oracle'. The 'Options' radio button is selected. A red dashed box highlights the 'Choose an option' dropdown menu, which is open and shows the following options: 'Real Application Clusters' (selected with a blue checkmark), 'Multitenant', and 'Active Data Guard'. The 'Product' section is visible but not selected.

Step 4 : You can choose options : **Real Application Cluster (RAC), Multitenant and Active Data Guard**

Oracle License Manager Configuration steps



ORACLE Cloud Search resources, services, documentation, and marketplace US East (Ashburn)

Add Product License

Vendor

☐ Oracle
Select Oracle as Vendor for all Oracle Products. ✓

☐ Third Party
Select Third Party as Vendor for all non-Oracle product licenses.

Product

☐ Product ☒ Options

Real Application Clusters

Metric

Processors

License record

You can add additional license records after you create the product license.

Record Name

Text

Customer Support Identifier (CSI) ⓘ

12345

License Term

☒ Perpetual ☐ Term-Limited

Support Contract End Date

Aug 31, 2022

License Quantity ⓘ

☐ Count ☒ Unlimited

[Show Licensing Options](#)

Image Optional

You can add additional images after you create the product license.

No image attached Choose Image

Step 5 :

- You can input your license record details in the License record portion of the form.
- You can record information such as your Customer Support Identifier (CSI)
- You can also record your support contract end date and if your license

Oracle License Manager Configuration steps

Step 6 :

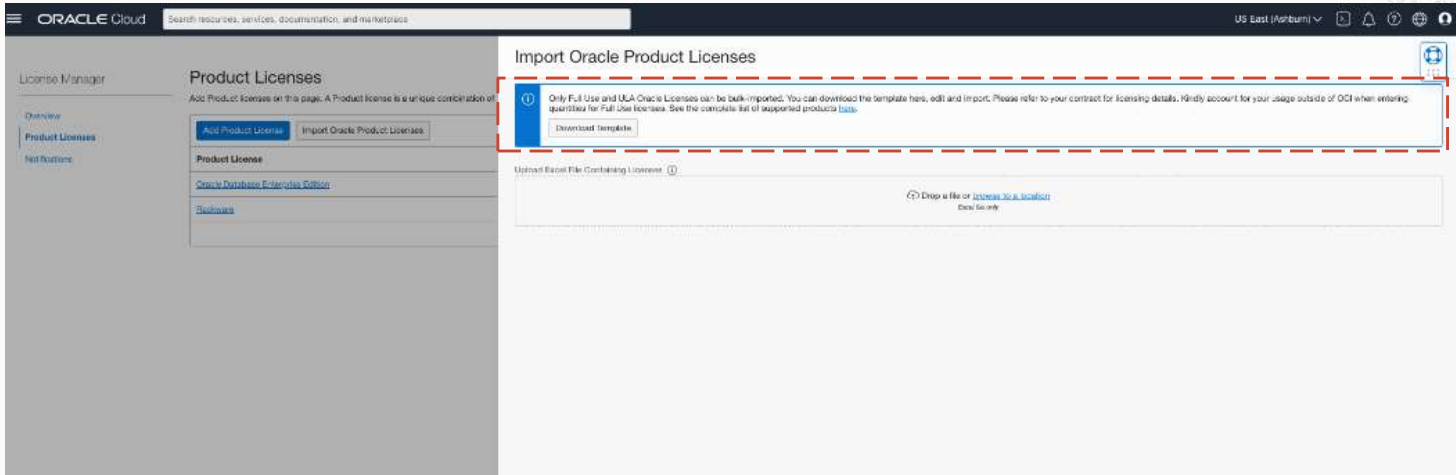
- To track license utilization on Compute resources, you can associate a Compute image with your license.
- Under the Image section, select Choose Image.
- You can select the specific image and image build in the form that appears.

The screenshot shows the 'Add Product License' page in the Oracle Cloud console. The 'Image' section is highlighted with a red dashed box. A blue arrow points to the 'Oracle Database 19.0.6.220910' option in the 'Choose Image' dropdown menu.

Oracle Database 19.0.6.220910



Oracle License Manager Configuration steps



Non-mandatory steps :

- You can also add Oracle licenses by clicking the Import Oracle Product Licenses button on the **Product License** page.
- You can download an Excel template, edit it to match your licensing data, and reimport it. The following image depicts a sample file.

	A	B	C	D	E	F	G	H
1	Product Name	Metric	License Term	License End Date	License Level	License Count	CSI	Support Contract End Date
2	Oracle Database Enterprise Edition	PROCESSORS	PERPETUAL		ULA		234567	28-May-2023
3	Real Application Clusters	PROCESSORS	PERPETUAL		ULA		234567	28-May-2023
4	Multitenant	NAMED USER PLUS	TERM-LIMITED	28-Apr-2023	FULL USE	100	234568	28-May-2023
5	Oracle Database Enterprise Edition	NAMED USER PLUS	TERM-LIMITED	28-Apr-2023	FULL USE	150	234568	28-May-2023
6								
7								



Oracle License Manager Configuration steps

The screenshot shows the Oracle Cloud License Manager interface. On the left is a sidebar with a red 'PL' icon and a 'Resources' section containing 'Consumption', 'License Records', and 'Images'. The main content area is titled 'Oracle Database Enterprise Edition' and includes a 'Delete' button and an 'Add Tag' button. Below this is a 'Product License Information' section with fields for 'OCID', 'Type', and 'Metric'. A box labeled 'Entitlement 1' contains the text 'Oracle License Manager Configur...'. The 'Consumption' section below shows a table of resource usage.

Resource OCID	Product Name	Compartment	Requirement (Processors)
ocid.autonomousdatabase.oc1.us-east-1.../oc1.us-east-1.../oc1.us-east-1...	Oracle Autonomous Transaction Processing - BYOL	licensemanagerdemo	5
ocid.cloudinfrastructure.oc1.us-east-1.../oc1.us-east-1.../oc1.us-east-1...	Oracle Cloud Infrastructure - Database Cloud Service - All Editions - BYOL	licensemanagerdemo	3
ocid.autonomousdatabase.oc1.us-east-1.../oc1.us-east-1.../oc1.us-east-1...	Oracle Autonomous Data Warehouse - BYOL	licensemanagerdemo	1

- You can view the entitlements and requirements for a license in the metric that the license was created in from the Product Licenses page.

The screenshot shows the 'Notifications' section of the Oracle Cloud License Manager interface. It includes a heading 'Email Notifications' and a sub-heading 'Manage the list of email addresses to be notified about the expiration or over-subscription of licenses.' Below this is a text input field labeled 'Email Recipients (Optional)' containing the email address 'marcel.lamarca@oracle.com'. A large blue arrow points from the text 'marcel.lamarca@oracle.com' to the input field. There are 'Save' and 'Cancel' buttons at the bottom.

- You can also choose to receive a weekly email notification on scenarios such as oversubscription of licenses or license records at or near expiration by adding the email recipient list on the Notifications page

License Manager

Overview

- Overview
- Product Licenses
- All Resources

Product Licenses
2 total

BYOL Resources
3 total

License Included Resources
1 total

Licenses at or near expiration
0 total

Top Utilized Product Licenses

Product License	Status	Requirement	Entitlement	Metric
Oracle Database Enterprise Edition	Issues Found	0	0	Procsessors

Showing 1 item < 1 of 1 >


Top BYOL Resource by OCPUs

Resource OCID	OCPUs	Compartment
ocid1_ahrmcmjwzqkhaqa.oc1.us-west-1.prod.famrdb.oci.oraclecloud.com/znmpcncgdfmnmrea	12	license-manage-demo
ocid1_db-system.oc1.us-west-1.prod.famrdb.oci.oraclecloud.com/tfuo0yey	4	license-manage-demo
ocid1_ahrmcmjwzqkhaqa.oc1.us-west-1.prod.famrdb.oci.oraclecloud.com/mxusurfwslaktpn073stme	2	license-manage-demo

Showing 3 items < 1 of 1 >

License Manager e-mail notification

If items require action, you receive an email similar to the following example.



Dear Customer,

Re: License Manager Summary.

The following is a summary of License Manager items that require your attention for licensemanagerdemo as of date 05/09/2022.

Sincerely,
License Manager

Product Licenses Over Subscribed

Product Name	Metric	Requirement	Entitlement	License Records
Oracle Database Enterprise Edition	Processors	9	6	2

License Records near or past expiration date for License or Support Contract

Product Name	Metric	License Record Name	License Record Product Id	License Expiration Date	Support Contract End Date
Oracle Database Enterprise Edition	Processors	323213	231231231	05/03/2122	05/04/2022 - Expired

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License communication channels

MOS Service SR Technical vs Non-Technical

The screenshot shows the MOS Service Requests Home page. At the top, there is a navigation bar with tabs: Dashboard, Knowledge, Service Requests (selected), Patches & Updates, Community, and Certifications. Below the navigation bar, the page title is "Service Requests Home".

Under the "Service Requests Home" section, there is a sub-section titled "Technical Service Requests". Below this title, there are two buttons: "Ask in Community..." and "Create Technical SR".

Below the buttons, there is a table with three columns: **SR Type**, **Problem**, and **Required Privileges**.

SR Type	Problem	Required Privileges
Technical	<ul style="list-style-type: none">• Product related	<ul style="list-style-type: none">• Restricted privilege assigned by CUA• Create – View - None
Non-Technical	<ul style="list-style-type: none">• Permissions - Login• License - Entitlement	<ul style="list-style-type: none">• All users• Create - Update – and View your own

Below the table, there is a sub-section titled "Non-Technical Service Requests". Below this title, there is a button: "Create Non-Technical SR".

Or send an e-mail to :infoprice@oracle.com

Oracle Software Investment Advisor



Licensing Solutions

"Can you help us understand the licensing implications of future technology decisions?"



Investment Economics

"How is our Oracle investment supporting the long-term goals of the business?"



License Knowledge Transfer

"Can you help us better understand our license and subscription terms and conditions?"



Cloud Sizing

"What do we need to consider when moving parts of our existing environment to the cloud?"



Deployment Optimization

"How do I find out if my Oracle TCO is optimized across both on-premise and the cloud?"



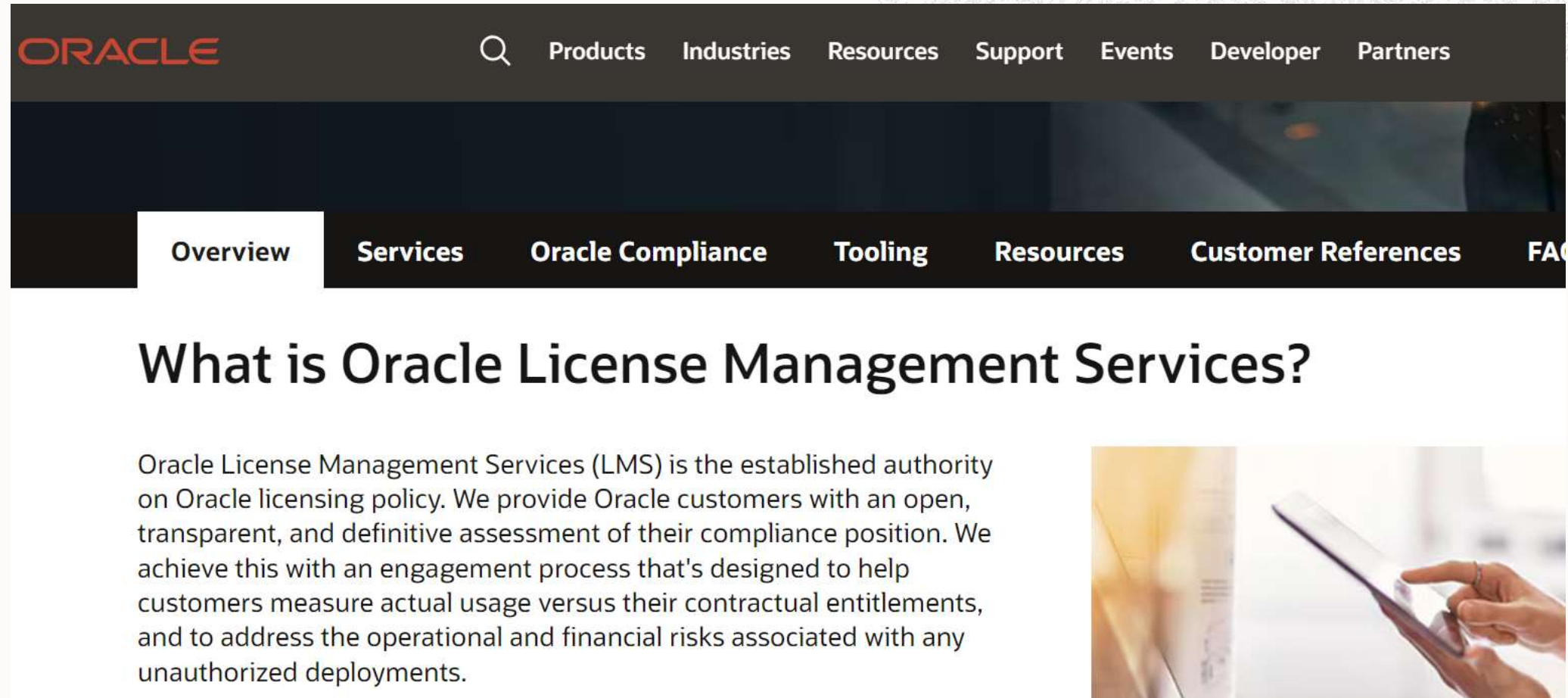
Entitlement Intelligence

"How do I find out the current state of our contractual agreements with Oracle?"

For more informatio contact sia-global_ww@oracle.com or visit www.oracle.com/goto/sia



Oracle License Management Services (LMS)



The screenshot shows the Oracle LMS website. At the top is the Oracle logo in red. To its right is a search icon followed by navigation links: Products, Industries, Resources, Support, Events, Developer, and Partners. Below this is a dark navigation bar with white text links: Overview (highlighted), Services, Oracle Compliance, Tooling, Resources, Customer References, and FAQ. The main content area has a large heading "What is Oracle License Management Services?". Below the heading is a paragraph of text. To the right of the text is a photograph of a person's hands holding a tablet.

ORACLE

Products Industries Resources Support Events Developer Partners

Overview Services Oracle Compliance Tooling Resources Customer References FAQ

What is Oracle License Management Services?

Oracle License Management Services (LMS) is the established authority on Oracle licensing policy. We provide Oracle customers with an open, transparent, and definitive assessment of their compliance position. We achieve this with an engagement process that's designed to help customers measure actual usage versus their contractual entitlements, and to address the operational and financial risks associated with any unauthorized deployments.

Resources

- **Oracle Database Licensing**

www.oracle.com/assets/databaselicensing-070584.pdf

- **Oracle Processor Core factor Table**

www.oracle.com/us/corporate/contracts/processor-core-factor-table-070634.pdf

- **Oracle Partition policy**

www.oracle.com/us/corporate/pricing/partitioning-070609.pdf

- **Licensing Oracle Software in the Cloud Computing Environment**

www.oracle.com/us/corporate/pricing/cloud-licensing-070579.pdf

- **Oracle Database 23c Licensing Information User Manual**

<https://docs.oracle.com/en/database/oracle/oracle-database/23/dblic/database-licensing-information-user-manual.pdf>

- **Oracle Licensing price team e-mail**

infoprice@oracle.com

- **Microsoft Licensing on Oracle Cloud Infrastructure**

<https://docs.oracle.com/en-us/iaas/Content/Compute/References/microsoftlicensing.htm>

- **OCI Cost Estimator**

<https://www.oracle.com/cloud/costestimator.html>

- **OCI License Manager Documentation**

<https://docs.oracle.com/pt-br/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm>

- **OCI License Manager Announcement**

<https://blogs.oracle.com/cloud-infrastructure/post/announcing-license-manager-for-oracle-cloud-infrastructure>

- **Oracle Database Features and licensing comparison**

<https://apex.oracle.com/database-features/>

- **Oracle Database Licensing Information User Manual**

<https://docs.oracle.com/en/database/oracle/oracle-database/19/dblic/database-licensing-information-user-manual.pdf>

- **Oracle Database BYOL FAQ**

<https://www.oracle.com/cloud/bring-your-own-license/faq/>

- **Oracle Lifetime Support**

<https://www.oracle.com/us/assets/lifetime-support-technology-069183.pdf>

- **Oracle Licensing Management Services**

<https://www.oracle.com/corporate/license-management-services/>

Thank you

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