

# **Autonomous Transaction Processing Serverless**



All-in-One Datasheet (Beta) Produced by DBExpert

### Overview

Oracle Autonomous Transaction Processing Serverless (ATP-S) is fully automated and optimized for transaction processing or mixed workloads. The service delivers a self-driving, self-securing, self-repairing database service that can instantly scale to meet demands of mission critical applications, running on Exadata (non-dedicated).

Visit the <u>DB Expert Services Taxonomy page</u> to get the latest version of this data sheet and see data sheets for all of the Oracle Cloud Database services.

## **Deployment**

Database Type	Single Database
Management Model	Fully Managed PaaS
Supported Cloud Environments	Oracle Cloud Infrastructure, Oracle Database@Azure and Oracle Database@Google Cloud
SKUs for starting configuration	B95702 (ECPU) or B95704 (ECPU BYOL) B95706 (DB storage) B95754 (backup storage)
DB Versions Supported	Oracle 23ai (Long-term release), Oracle 19c (Long-term release)
Hardware Infrastructure	Shared Engineered System

## **Usage Models**

Recommended Workloads	Blockchain Data Science / Machine Learning Data and IoT Event Streams Graph Mixed Workload (Transaction + Analytics) Transaction Processing (OLTP) Vector
Recommended Data Models	Document Store (JSON) Document Store (XML) NoSQL Spatial Text Vector

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Certified Oracle Applications	FLEXCUBE 14.7
	JD Edwards EnterpriseOne Tools 9.2.6 and
	later
	Oracle APEX
	Oracle Fusion Middleware 14.1.2.0.0
	Oracle Primavera P6 EPPM Version 23
	PeopleSoft PeopleTools 8.62 and later
	RGBU-Xstore 18.0.1 and later
	Siebel Enterprise Server 25.2 and later

## Capacity

#### **Configuration Options**

Fully elastic scaling: Scale compute and storage independently to fit your database workload with no downtime:

Size the database to the exact compute and storage required

Scale the database on demand: Independently scale compute or storage

Shut off idle compute to save money Auto scaling: Allows your database to use more CPU and IO resources or to use additional storage automatically when the workload or storage demand requires additional resources:

Use compute auto scaling to allow the database to use up to three times more CPU and IO resources, depending on workload requirements. Compute auto scaling is enabled by default when you create an Autonomous Database.

Use storage auto scaling to allow the database to expand to use up to three times the reserved base storage, depending on your storage requirements. Storage auto scaling is disabled by default when you create an Autonomous Database.





CPU Range	2 to 16128 ECPUs in increments of 1
or or range	2 to 10120 tol 03 in melements of 1
Shapes	ATP-S ECPUs: 2 to 512 Max DB TB: 384 ATP-S Available with Service Limit Increase Request ECPUs: 513 to 16128 Max DB TB: 3100
CPU scaling	Online, Auto scale up, Auto scale down
Storage scaling	Online, Auto scale up
Max IOPs	flash 8k: 2.8M read + 1M write (per storage server)
Max Throughput	100 GB/s
Max Memory	1.35TBx32 = 44 TB

# Availability

Nines of availability (may require configuration)	99.995 SLA (with Autonomous Data Guard)
Oracle DB Maximum Availability Architecture	Silver, Gold
medals (for OCI / Cloud@Customer deployments)	
Automated backups max retention	up to 60 days
Long-term backup retention (up to 10 years)	Yes

# **Functionality Included**

Included Oracle DB Options for license-included	Advanced Compression
service (*)	Advanced Security
	Database In-Memory
	Database Vault
	Label Security
	Partitioning
	Real Application Clusters (Oracle RAC)
	Real Application Testing
	Spatial and Graph
Included Oracle EM Packs for license-included	Cloud Management Back for Oracle
	Cloud Management Pack for Oracle
service (*)	Database (functionality provided by service)
	Data Masking and Subsetting Pack
	(functionality provided by service)
	Database Lifecycle Management Pack for

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	Oracle Database (functionality provided by service) Diagnostics Pack Tuning Pack
Free Add-Ons (no extra licensing required)	Data Transforms (nominal usage charge) Eligible target for loading data using Oracle Data Integrator, available on Cloud Marketplace (No license required if ADB is the target. Compute resources are charged.) Graph Studio (nominal usage charge) Managed Oracle REST Data Services (ORDS) with ADB-S Oracle APEX Oracle Analytics Desktop Oracle Cloud Observability and Management Service (O&M) Oracle Data Safe Oracle Database Actions Oracle GoldenGate 1) Limited Use Term License Promotion and 2) Oracle GoldenGate Database Migration Term (both available on Oracle Cloud Marketplace) Oracle Machine Learning UI (nominal usage charge)

<sup>\*</sup>Check service documentation for feature availability and limitations

#### Locations

#### **Oracle Cloud Infrastructure**

**APAC:** AU Gov Southeast - WGA, Chuncheon - YNY, Hyderabad - HYD, Melbourne - MEL (G), Mumbai - BOM (G), Osaka - KIX, Seoul - ICN (A), Singapore - SIN (A, G), Singapore West - XSP, Sydney - SYD (G), Tokyo - NRT (A, G)

**EMEA:** Abu Dhabi - AUH, Amsterdam - AMS (A), Dubai - DBX, EU Sovereign Central - STR, EU Sovereign South - VLL, Frankfurt - FRA (A, G), Jeddah - JED, Jerusalem - MTZ, Johannesburg - JNB (A), Jovanovac - BEG, London - LHR (A, G), Madrid - MAD (G), Marseille - MRS, Milan - LIN, Newport - CWL, Paris - CDG, Riyadh - RUH, Stockholm - ARN, UK Gov South - LTN, UK Gov West - BRS, Zurich - ZRH (G)

LAD: Bogota - BOG, Monterrey - MTY, Queretaro - QRO, Santiago - SCL, Sao Paulo - GRU (G), Valparaiso - VAP, Vinhedo - VCP (A)

North America: Ashburn - IAD (A, G), Chicago - ORD, Montreal - YUL (G), Phoenix - PHX (A), San Jose - SJC (A), Toronto - YYZ (A, G), US DoD East - RIC, US DoD North - PIA, US DoD West - TUS, US Gov East - LFI, US Gov West - LUF

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\* New services and hardware generations are rolled out across regions, check your region for current status. (A) = Interconnect to Microsoft Azure available. (G) = Interconnect to Google Cloud available

#### Azure

APAC: Australia East, Japan East, Southeast Asia

EMEA: France Central, Germany West Central, Italy North, UK South, UK West

LAD: Brazil South

North America: Canada Central, Central US, East US, East US 2, West US

## **Google Cloud**

APAC: asia-northeast1

**EMEA:** europe-west2, europe-west3

North America: us-east4

### **AWS**

None to date. Visit the Multicloud Updates page (link below) to check on potential roadmap items.

#### **Multicloud Updates**

## **Operational Controls**

Allows installing additional software/agents on the host	No
Allows installing OS packages	No
Allows kernel changes	No
Allows OS runtime changes	No
Allows sysdba access	No
Oracle operator access control	No
Control DB patch level	No
Control DB release update (RU) level	No
Control DB version	Yes
Control maintenance window	No
Preview and Validate Patches for Zero-Regression SLO	Yes

## **Additional Information**

Open Source DB	No

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Delta Sharing / Cloud Links	Delta Sharing Provider / Recipient and Cloud Links
Select AI to Generate SQL from Natural Language Prompts	Yes
Mongo-compatible API	Yes
Supports non-CDB home	No

## **Reference Links**

#### General

Oracle PaaS and IaaS Universal Credits Service Descriptions

**Service Level Objectives** 

Oracle DB Maximum Availability Architecture medals

Oracle Cloud Infrastructure Compliance

Oracle Database Releases

**BYOL FAQ** 

**OCI Locations and Status** 

Oracle Database Multicloud Regions, Capabilities, Compliance, High Availability and Migration

#### **Service Specific**

ADB FAQ

**ATP Serverless Customer References** 

Azure documentation: Overview - Oracle Database@Azure

Certify Applications for Compatibility Between Autonomous Database Serverless and Dedicated

**Cost Estimator** 

Oracle Autonomous Database Tools and Applications—Certifications, Compatibility, and Compliance

**Oracle Database Cloud Migration** 

Oracle Database@Azure

Oracle Database@Azure Credits Service Descriptions

Oracle Database@Google Cloud Credits Service Descriptions

Oracle Database@Google Cloud documentation

Regions, capabilities, interoperability and compliance posture for Oracle Database@ACE services

What's new in Autonomous Transaction Processing Serverless





# The Responsibility Model for Oracle Autonomous Database

Task	Who	Details
Provisioning Autonomous Database resources	Oracle	Oracle is responsible for provisioning resources. You the customer are responsible for initiating provisioning requests that specify configuration characteristics of the resource being provisioned.
Backing up databases	Oracle	Oracle is responsible for backing up databases on a daily basis and for retaining database backups for 60 days.
Recovering a database	Oracle	Oracle is responsible for recovering databases. You the customer are responsible for initiating a recovery request that specifies which existing backup to recover to.
Patching and upgrading	Oracle	Oracle is responsible for patching and upgrading all Autonomous Database resources.
Scaling	Oracle	Oracle is responsible for scaling Autonomous Databases. You the customer are responsible for initiating scaling requests.
Monitoring service health	Oracle	Oracle is responsible for monitoring the health of Autonomous Database resources and for ensuring their availability as per published guidelines.
Monitoring application health and performance	Customer	You the customer are responsible for monitoring the health and performance of your applications at all levels. This responsibility includes monitoring the performance of the database queries and updates your applications perform.
Application security	Customer	You the customer are responsible for the security of your applications at all levels. This responsibility includes Cloud user access to Autonomous Database resources, network access to these resources, and access to database data.  Oracle ensures that data stored in Autonomous Databases is encrypted and ensures that connections to Autonomous Databases require TLS 1.2 encryption and wallet-based authentication.
Auditing Oracle	Oracle	Oracle is responsible for logging REST API calls made to Autonomous Database resources and for making these logs available to you the customer for auditing purposes.
		Oracle is responsible for ensuring that Autonomous Databases are provisioned with Oracle Database auditing features enabled. You the customer are responsible for using these features to audit database usage.
Alerts and Notifications	Oracle	Oracle is responsible for providing an alert and notification feature for service events. You the customer are responsible for monitoring any database alerts that may be of interest.

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