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## Applies to:

Oracle Database - Enterprise Edition - Version 12.1.0.1 to 12.1.0.1 [Release 12.1]

Information in this document applies to any platform.

\*\*\* Checked for relevance on 05-Apr-2016 \*\*\*

## Purpose

To show the option differences between the different editions of Oracle 12.1 server,[Table](http://docs.oracle.com/cd/B28359_01/license.111/b28287/editions.htm" \l "CIHBAEID) lists feature availability for Oracle Database Standard Edition One (SE1), Standard Edition (SE), and Enterprise Edition (EE).

SOURCE:

Oracle® Database Licensing Information 12c Release 1 (12.1) Part Number E17614-09

      Chapter 1 Oracle Database Editions

## Details

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| --- | --- | --- | --- | --- |
| Feature/Option | SE1 | SE | EE | Notes |
| **Consolidation** |  |  |  |  |
| Multitenant | N | N | Y | Extra cost option for up to 252 pluggable databases. The multitenant architecture with one pluggable database (single tenant) is available in all editions |
| **Snapshots and Cloning** |  |  |  |  |
| Storage Snapshot Optimization | N | N | Y | Requires advanced compression option |
| **High Availability** |  |  |  |  |
| Application Continuity | N | N | Y | Requires the Active Data Guard option or the Real Application Clusters option |
| Oracle Fail Safe | Y | Y | Y | Windows only |
| Oracle RAC One Node | N | N | Y | Extra cost option |
| Oracle Data Guard—Redo Apply | N | N | Y |  |
| Oracle Data Guard— Far Sync Standby | N | N | Y | Requires the Active Data Guard option |
| Oracle Data Guard—SQL Apply | N | N | Y |  |
| Oracle Data Guard—Snapshot Standby | N | N | Y |  |
| Oracle Data Guard—Real-Time Cascading Standby | N | N | Y | Requires the Active Data Guard option |
| Oracle Active Data Guard | N | N | Y | Extra cost option |
| Rolling Upgrades—Patch Set, Database, and Operating System | N | N | Y |  |
| Rolling Upgrade using Active Data Guard | N | N | Y | Requires the Active Data Guard option |
| Online index rebuild | N | N | Y |  |
| Online index-organized table organization | N | N | Y | ALTERTABLE...MOVEONLINEoperations |
| Online table redefinition | N | N | Y | Using theDBMS\_REDEFINITIONpackage |
| Duplexed backup sets | N | N | Y |  |
| Block change tracking for fast incremental backup | N | N | Y |  |
| Unused block compression in backups | N | N | Y |  |
| Block-level media recovery | N | N | Y |  |
| Lost Write Protection | N | N | Y |  |
| Automatic Block Repair | N | N | Y | Requires Active Data Guard option |
| Parallel backup and recovery | N | N | Y |  |
| Tablespace point-in-time recovery | N | N | Y |  |
| Trial recovery | N | N | Y |  |
| Fast-start fault recovery | N | N | Y |  |
| Flashback Table | N | N | Y |  |
| Flashback Database | N | N | Y |  |
| Flashback Transaction | N | N | Y |  |
| Flashback Transaction Query | N | N | Y |  |
| Optimization for Flashback Data Archive | N | N | Y | Basic Flashback Data Archive is in all editions. Optimization for Flashback Data Archive requires EE and the Advanced Compression option. |
| Online Datafile Move | N | N | Y |  |
| Transaction Guard | N | N | Y |  |
| Cross-platform Backup and Recovery | N | N | Y |  |
| Global Data Services | N | N | Y | Requires the Active Data Guard option |
| Recovering tables and table partitions from RMAN backups | N | N | Y |  |
| **Scalability** |  |  |  |  |
| Oracle Real Application Clusters | N | Y | Y | Extra cost with EE, included with SE |
| Automatic Workload Management | N | Y | Y | Requires Oracle Real Application Clusters |
| Quality of Service Management | N | N | Y | Requires Oracle Real Application Clusters |
| **Performance** |  |  |  |  |
| Client Side Query Cache | N | N | Y |  |
| Query Results Cache | N | N | Y |  |
| PL/SQL Function Result Cache | N | N | Y |  |
| In-Memory Database Cache | N | N | Y | Extra cost option |
| Database Smart Flash Cache | N | N | Y | Solaris and Oracle Enterprise Linux only |
| Support for Oracle Exadata Storage Server Software | N | N | Y |  |
| Adaptive Execution Plans | N | N | Y |  |
| Concurrent Execution of UNION and UNION ALL Branches | N | N | Y |  |
| **Security** |  |  |  |  |
| Advanced Security Option | N | N | Y | Extra cost option |
| Oracle Label Security | N | N | Y | Extra cost option |
| Oracle Database Vault | N | N | Y | Extra cost option |
| Virtual Private Database | N | N | Y |  |
| Fine-grained auditing | N | N | Y |  |
| Enterprise User Security | N | N | Y | Enterprise User Security is an EE feature for directory-based management of database users. It does require a corresponding Oracle Identity Management Directory Services Plus to be licensed. Usage of Enterprise User Security with Oracle Datbase strong authentication (PKI Kerberos) no longer requires Oracle Advanced Security to be licensed. |
| Real Application Security | N | N | Y |  |
| Redaction | N | N | Y | Requires Oracle Advanced Security |
| Privilege Analysis | N | N | Y | Requires Data vault option |
| Transparent Sensitive Data Protection | N | N | Y |  |
| **Development Platform** |  |  |  |  |
| SQLJ | Y | Y | Y | Requires Oracle Programmer |
| Oracle Developer Tools for Visual Studio .NET | Y | Y | Y | Windows only |
| Microsoft Distributed Transaction Coordinator support | Y | Y | Y | Windows only |
| Active Directory integration | Y | Y | Y | Windows only |
| Native .NET Data Provider—ODP.NET | Y | Y | Y | Windows only |
| .NET Stored Procedures | Y | Y | Y | Windows only |
| **Manageability** |  |  |  |  |
| Oracle Cloud Management Pack for Oracle Database | N | N | Y | Extra cost option |
| Oracle Data Masking Pack for Oracle and Non-Oracle databases | N | N | Y | Extra cost option |
| Oracle Database Lifecycle Management Pack for Oracle database | N | N | Y | Extra cost option |
| Oracle Diagnostic Pack | N | N | Y | Extra cost option |
| Oracle Test Data Management Pck for Oracle and Non-Oracle Databases | N | N | Y | Extra cost option |
| Oracle Tuning Pack | N | N | Y | Extra cost option, also requires the Diagnostic Pack |
| Oracle Real Application Testing | N | N | Y | Extra cost option |
| Database Resource Manager | N | N | Y |  |
| Instance Caging | N | N | Y |  |
| SQL Plan Management | N | N | Y |  |
| **VLDB, Data Warehousing, Business Intelligence** |  |  |  |  |
| Oracle Partitioning | N | N | Y | Extra cost option |
| Oracle OLAP | N | N | Y | Extra cost option |
| Oracle Advanced Analytics | N | N | Y | Extra cost option |
| Oracle Advanced Compression | N | N | Y | Extra cost option |
| Hybrid Columnar Compression | N | N | Y | Requires Exadata, ZFS, or Pillar Axiom 600 storage |
| Heat Map | N | N | Y | Requires the Advanced Compression option |
| Automatic Data optimization | N | N | Y | Requires the Advanced Compression option |
| Basic Table Compression | N | N | Y |  |
| Deferred Segment Creation | N | N | Y |  |
| Bitmapped index, bitmapped join index, and bitmap plan conversions | N | N | Y |  |
| Parallel query/DML | N | N | Y |  |
| Parallel statistics gathering | N | N | Y |  |
| Parallel index build/scans | N | N | Y |  |
| Parallel Data Pump Export/Import | N | N | Y |  |
| In-memory Parallel Execution | N | N | Y |  |
| Parallel Statement Queuing | N | N | Y |  |
| Parallel capture and apply via XStream | N | N | Y |  |
| Transportable tablespaces, including cross-platform | N | N | Y | Import of transportable tablespaces supported into SE, SE1, and EE |
| Summary management—Materialized View Query Rewrite | N | N | Y |  |
| **Integration** |  |  |  |  |
| Basic Replication | Y | Y | Y | SE1/SE: read-only, updateable materialized view |
| Advanced Replication | N | N | Y | Multi-master replication |
| Oracle Streams | Y | Y | Y | SE1/SE: no capture from redo |
| Database Gateways | Y | Y | Y | Separate product license |
| Messaging Gateway | N | N | Y |  |
| Sharded Queues | N | N | Y | Requires the Oracle Partitioning option |
| **Networking** |  |  |  |  |
| Oracle Connection Manager | N | N | Y | Available via a custom install of the Oracle Database client, usually installed on a separate machine |
| Infiniband Support | N | N | Y |  |
| Network Compression | N | N | Y | Requires the Advanced compression option |
| Network Encryption (SSL/TLS) | Y | Y | Y |  |
| **Spatial and Graph Data** |  |  |  |  |
| Oracle Spatial and Graph | N | N | Y | Extra cost option |
| Graph and Semantic Technologies (RDF/OWL) | N | N | Y | Requires the Oracle Spatial and Graph option and the Oracle Partitioning option |
| Parallel spatisl index builds | N | N | Y |  |
| Multimaster replication of SDO\_GEOMETRY objects | N | N | Y | Single master/materialized view replication for SDO\_GEOMETRY objects is supported with both Standard edition and Enterprise edition |
| Parallel spatial indexes | N | N | Y | Requires Oracle Partitioning option |

## References