

# SAP on Oracle Development Update

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## Key Words:

SAP, Oracle, 11.2, 12.1, Oracle Engineered Systems, BR\*Tools

## Introduction

This presentation contains information that is relevant in the context of SAP installations running on an Oracle database.

Based on several examples it will be discussed which Oracle versions and features are supported in an SAP environment and what benefit they have. In addition information is provided about new developments in the SAP/Oracle environment.

## Extended Support for Oracle Database 11g started 1 February 2015

1<sup>st</sup> year of Extended Support is free-of-charge

No charges until 31 January 2016

- Automatic participation
- Supported releases:
  - 11.2.0.4
- Caution: Oracle 11.2.0.3 left Oracle support end of August 2015

For details see

- SAP Note 2098258

SAP Note 2205728 – 11.2 Extended Support order information, etc

## Patch Set 11.2.0.4

3<sup>rd</sup> and Final Patch Set for Oracle 11.2

Released 14 February, 2014

- General Availability since February 2014
- Windows Cluster available since May 2014

August 2015 SBP is most recent and contains PSU 7 for 11.2.0.4 (11.2.0.4.7)

See SAP Note **1431799** for support dates

## Oracle Database 12c Release 1 (12.1)

Certified for Business Suite based on SAP NetWeaver starting 31 March 2015

- Including:
  - Oracle RDBMS 12c
  - Oracle Grid Infrastructure 12c
  - Oracle Real Application Clusters (RAC) 12c

Requirements

- Minimum Oracle version is 12.1.0.2 with initial SAP Bundle Patch (12.1.0.2.2)
- SAP Kernel 7.21\_EXT or higher

For details see

- SAP Notes **2133079** and **1914631**

### **Features supported as of certification**

The following features are available with initial certification:

- Advanced Index Compression
  - Automatic prefix computation
  - Higher compression rate, ease of use
- Client-Server Network Compression
  - Less network load between application servers and database instance(s)
- ACO Table Compression: Support for > 255 columns
- ACFS Support on Exadata
  - for SAP shared file system support (/sapmnt, etc.)
- RAC: HA-NFS support with ACFS
  - Complete SAP HA solution for shared file system
- RMAN: Cross platform backup and restore
  - Easier heterogeneous platform migration
- Storage Snapshot Optimization
  - No more begin/end backup for certain snapshot technologies
- Active Data Guard Far Sync
  - High performance zero data loss across large distance WAN
- Online Move Partition, Move a Datafile Online

### **Oracle Database In-Memory**

<sup>NEW!</sup> Certified for SAP since 30 June, 2015

#### Requirements

- Oracle Database 12c Release 12.1.0.2 or higher
  - Including RAC 12c and Engineered Systems
- SAP NetWeaver 7.X with kernel 7.21\_EXT or higher
  - In SAP DDIC < 7.40 SP12 limited IM support

For details see

- SAP Note **2178980**

- Oracle In-Memory white paper on SCN

#### SAP Products Support

- Business Suite based on SAP NetWeaver
  - ERP, CRM, SRM, SCM, BW, PI, ...
  - Industry solutions
- Check SAP Product Availability Matrix (PAM) for full list

#### **Oracle Exadata Database Machine X2 – X5**

Support for X2-2|8, X3-2|8, X4-2|8 and X5-2

- Exadata license required
- See SAP Note **1590515**
- Oracle Exadata white paper on SCN

#### **Oracle Exalogic X2 | X3 | X4**

Support for X2-2, X3-2 and X4-2

- Virtual Exalogic (using Oracle VM)
- Only in combination with Exadata
- See SAP Note **1617188**

#### **Oracle SPARC SuperCluster**

Supported for SAP since 2012

- See SAP Note **1693680**

#### **Oracle Database Appliance (ODA)**

Support for V1, X3-2 and X4-2

- See SAP Note **1760737**
- Oracle ODA white paper on SCN

#### **Oracle Private Cloud Appliance (PCA)**

Engineered system designed for virtualization

Supported for SAP since September, 2014

- Starting from Oracle PCA Version 1.1.3
- Based on Oracle VM

## Guest Operating Systems Support

- Oracle Linux 5, 6 and 7
- Oracle Solaris 10 and 11

For details see

- SAP Note **2052912**

## SAP NW Landscape Virtualization Management

### Certification

SAP NetWeaver LVM is supported for...

- Oracle ASM
- Oracle RAC
- Oracle Engineered Systems
- Minimum SAP LVM 2.1 with SP3
- Custom Provisioning Solution
- Refresh Only (using ORALVM script based on Oracle RMAN)
- Support for
  - Oracle 11.2
  - Oracle 12.1

For details see

- SAP Notes **2163827** and **1349525**
- SAP LVM on Oracle white paper on SCN
- BLOG: <http://scn.sap.com/community/it-management/virtualization/blog/2015/09/10/sap-lvm-oracle-12c>

## Enhancements in brbackup and brrecover

### brbackup

- Consistent Online Backup of Standby Database
- Backup of Standby Database for a Primary Oracle RAC Database
- Creation of Copy of ASM Databases

- Creation of a Single Instance Database from a RAC Database

For details see

- SAP Note **1844380**

### **brrecover**

- Reconfiguration of Online Redo Log Files during a Recovery

For details see

- SAP Note **2086966**

## **Support for Oracle 12c**

### **BR\*Tools 7.40 Patch 14**

- Move Data File Online
- Online move partition
- Support for Advanced Index Compression
- Compression of tables with > 255 columns
- Reorganization of tables with long names
- Oracle Wallet in ASM

### **BR\*Tools 7.40 Patch 17**

- Oracle Database In-Memory

For details see

SAP Note **2087004**

