

Secrets of Successful Database 11gR2 Upgrades in an E-Business Suite Environment S316358

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Agenda

- Introduction
- Why
- Assumptions
- Application Base Level
- Daylight Savings
- Preupgrade
- Upgrade
- Post Upgrade



Why do the Upgrade

- New Features
- Stay on Premier Support
- Postpone further upgrades



Desupport Dates

Database Version	Premier Support	Extended Support	Sustaining Support
9.2	July 2007	July 2010	Indefinite (9.2.0.8)
10.1	January 2009	January 2012	Indefinite (10.1.0.5)
10.2	July 2010	July 2013 <i>10.2.0.4 April 2011</i>	Indefinite (10.2.0.5)
11.1	August 2012	August 2015	Indefinite (11.1.0.7)
11.2	January 2015	January 2018	Indefinite
JInitiator for EBS	July 2009	July 2012	N/A
11.5.10 EBS	<i>November 2010</i>	November 2013	Indefinite
12.0	January 2012	January 2015	Indefinite



Why do the Upgrade

- New Features
- Stay on Premier Support
- Postpone further upgrades
 - Desupport Dates
- Get on the Latest Technology
 - **Wrong Reason!**



Assumptions

- Linux
- Nothing Fancy



Applications Base Level

- 11.5.10.2
 - ATG RUP 6
 - Developer 6i PL 18
 - Sun JRE
- 12.0
 - 12.0.4
- 12.1
 - 12.1.1



11.5.10.2

- Main Upgrade MOS 881505.1
- Minimum Baseline MOS 883202.1
 - If you do not meet this level, support may not allow you to
 - log SEV 1 SRs
 - get new password protected patches
 - receive new bug fixes
 - get help on new patches that have issues



11.5.10.2

- Upgrade to JRE 1.6.0_17 from JInitiator
– MOS 290807.1



Developer 6i PL 19

- MOS 125767.1
- Apply the PL 19 patch, 6194129
- Apply the interoperability patch, 9935935
- Apply the 6.0.8.28 versions of
 - 9863561
 - 6125732
 - 6857221
 - 5232832
 - 8888184



Developer 6i PL 19

- Apply the 6.0.8.28 versions of
 - 9863561
 - 6125732
 - 6857221
 - 5232832
 - 8888184
 - 7329300
 - 6747939
 - 7552880



Developer 6i PL 19

- Apply 9094950 to fix an issue introduced in 8888184 which you just applied
- Apply 8826546



R12.0

- 12.0.4 will work, but you should go to 12.0.6
- R12.AD.A.DELTA.6 (7305220)
 - prerequisites
 - adgrants.sql
 - 676723
- 12.0.6 (6728000)
- Legislative Updates
 - 145837.1 for patches that apply to you



R12.0

- Documentation (7109200)
- Post Upgrade
 - 8222387
 - 7653364
- Update Autoconfig on the database tier
 - perl \$AD_TOP/bin/admkappsutil.pl
 - copy \$INST_TOP/admin/out/appsutil.zip to the database tier Oracle home
 - on the database tier, unzip the file and autoconfig
- In other words, follow note 743368.1



R12.1

- Extra steps if you are using Demand Signal Repository
 - 12.1.2 minimum
 - Oracle Warehouse Builder 11.2.0.1
- Beyond our 'No Bells and Whistles'



Daylight Savings

- Version 11
- MOS 458452.1 for 11.5.10.2
- MOS 563019.1 for R12
- MOS 840118.1 for the Database
- 10.2.0.5 has a special issue
 - DST 11 is unavailable for JVM



Daylight Saving

- Assumption: OS is already patched
- Assumption: You have run the scripts from the notes and know your data.
- Patch Database
 - If you are not already on Version 10 files, apply 7695070
 - Apply 8524113
- Patch Oracle JVM
 - 8603182



11.5.10.2

- Apply the Dev 6i PL 19 patch, 9005247
- FND 5619414 or later
- HZ 5630108 or later
- Mobile Field Service 6476631
- Field Service/Handheld 6453109
- CRM 6456596
- WIP 5744443
- Check the note to see which apply to you



R12

- Apply the pre-req patch to the 10.1.2 home, 7695050
 - cd \$ORACLE_HOME/forms/lib
 - make -f ins_forms.m install
- Apply the 10.1.0.5 version of 8524113 to all middle tiers



Daylight Savings

- Version 11
 - OS
 - Database
 - Oracle JVM
 - E-Business Suite
 - JDK



Preupgrade

- Performance Baselines
 - Clone just prior to upgrade with all stats jobs off
- Dictionary Stats
- Invalid Objects



Preupgrade

- 11.5.10.2
 - TXK Rollup U, 9535311
 - ./txkprepatchcheck.pl -script=ValidateRollup
-outfile=\$APPLTMP/txkValidateRollup.html
-appspass=<apps database password>
 - Autoconfig apps tier
 - admkappsutil.pl and move to db tier
 - 9835302
 - Interoperability 8815204
 - 5644137
 - 6400762



Preupgrade

- R12
 - 12.0
 - Autoconfig, 9386653
 - 12.1
 - Autoconfig, 8919489
 - 9738085
 - 9852070



Preupgrade

- R12
 - 12.0
 - Interoperability, 8623536
 - 12.1
 - Interoperability, 9062910
 - Apply 6400501 to 10.1.2 home (apply the 32-bit Linux version)
- 11.2.0 Home



11.2.0.1

- Get 11.2.0.1 from OTN

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Oracle Database Software Downloads



You must accept the [OTN License Agreement](#) to download this software.

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Oracle Database 11g Release 2 Standard Edition, Standard Edition One, and Enterprise Edition

9/13/10: Patch Set 11.2.0.2 for Linux is now available on support.oracle.com. Note: it is a full installation (you do not need to download 11.2.0.1 first). See the [README](#) for more info (login to My Oracle Support required).

(11.2.0.1.0)

 Microsoft Windows (32-bit)	File 1 , File 2 (2GB) See All
 Microsoft Windows (x64)	File 1 , File 2 (2GB) See All



11.2.0.1

Overview

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Documentation

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Oracle Database 11g Release 2 (11.2.0.1.0)

Standard Edition, Standard Edition One, and Enterprise Edition

Thank you for accepting the OTN License Agreement; you may now download this software.

Oracle Database 11g Release 2 (11.2.0.1.0) for Linux x86-64

↓ [linux.x64_11gR2_database_1of2.zip](#) (1,239,269,270 bytes) (cksum - 3152418844)

↓ [linux.x64_11gR2_database_2of2.zip](#) (1,111,416,131 bytes) (cksum - 3669256139)

Directions

1. All files are in the .zip format. There is an unzip utility [here](#) if you need one.
2. Download and unzip both files to the same directory.
3. Installation guides and general Oracle Database 11g documentation are [here](#).
4. Review the certification matrix for this product [here](#).



11.2.0.1

- Down at the bottom of the page

up a heterogeneous data integration environment

Oracle Database 11g Release 2 Examples

📄 [linux.x64_11gR2_examples.zip](#) (555,366,950 bytes) (cksum - 1191529449)

Contains examples of how to use the Oracle Database. Download if you are new to Oracle and want to try some of the examples presented in the Documentation



11.2.0.1

- Create nls/data/9idata
 - nls/data/old/cr9idata.pl
 - When you switch to the 11g home, ORA_NLS10 must point to the nls/data/9idata directory
- One Off Patches
 - Do not do the post install steps, but record them to apply after the database upgrade



11.2.0.1

- 11.5.10.2
 - 8570322
 - 8685327
 - 8761974
 - 8771297
 - 8772028
 - 8796511
 - 8897784
 - 8964142
 - 8405205



11.2.0.1

- R12
 - 8328200
 - 8993052
 - 9081430
 - 9218789
 - 9318214
 - 9500046
 - 9535951
 - 9644960
 - 9657344
 - 9719541
 - 9756939



Upgrade

- utlu11i.sql
- DROP SYS.ENABLED\$INDEXES
- 32 bit/64 bit conversion in the past
 - 579523.1
- DROP SYS.PLAN_TABLE
 - 565600.1
- ORA-1408 on
system.repcat\$_audit_column_f2_idx
 - 737400.1



Upgrade

- Make sure native compilation is off
- dbua
 - 11.5.10.2
 - dbua
 - R12
 - dbua -initParam “_disable_fast_validate=TRUE”



Upgrade

- Init.ora
 - 11.5.10.2 note 216205.1
 - R12 note 396009.1
 - `_disable_fast_validate=TRUE` for duration of the upgrade and post upgrade maintenance
- Upgrade the statistics table
 - `DBMS_STATS.UPGRADE_STAT_TABLE('APPLSYS', 'FND_STATTAB')`
- R12
 - Run `catmgdidcode.sql` and `utlrp.sql` from the post install instructions in 9218789



Upgrade

- 11.5.10.2
 - Install Oracle Data Mining and OLAP
 - select comp_id from dba_registry where comp_id='ODM' or comp_id='AMD'
 - If ODM is not returned, @?/rdbms/admin/dminst SYSAUX TEMP
 - If AMD is not returned, @?/olap/admin/olap SYSAUX TEMP
- Natively compile PL/SQL
- 11.5.10.2
 - If you upgraded from 10.1 or earlier, fix the Korean lexers
 - @?/ctx/sample/script/drkorean



Upgrade

- Migrate TNS_ADMIN and start from the new home
- adgrants.sql
 - \$APPL_TOP/admin/adgrants.sql
 - sqlplus '/' as sysdba' @adgrants APPS
- CTXSYS
 - \$AD_TOP/patch/15/sql/adctxprv.sql
 - sqlplus '/' as sysdba' @adctxprv.sql
SYSTEM_PASSWORD CTXSYS
 - as sysdba, exec ctxsys.ctx_adm.set_parameter('file_access_role', 'public');



Upgrade

- R12
 - Validate Workflow Ruleset
 - sqlplus apps @\$FND_TOP/patch/115/sql/wfaqupfix
APPLSYS APPS
- Implement Autoconfig in 11.2.0.1 home
- Run adstats
 - startup restrict/bounce
 - alter system enable/disable restricted session;



Upgrade

- Recreate any custom database links
- 11.5.10.2
 - Apply HRMS Patch 7721754
- adadmin → Recreate Grants and Synonyms
- Concurrent request -< Workflow Directory Services User/Role Validation



Post Upgrade Support

- Statistics
- Comparison back to baseline



Questions

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