

Oracle® Agile Engineering Data Management

Patch Upgrade Guide for Windows and UNIX for Agile e6.1.3.0

Part No. E50960-02

March 2014

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Preface

The Oracle documentation set includes Adobe® Acrobat™ PDF files. The Oracle Technology Network (OTN) Web site (http://www.oracle.com/technology/documentation/agile.html) contains the latest versions of the Oracle Agile EDM PDF files. You can view or download these manuals from the Web site, or you can ask your Agile administrator if there is an Oracle Documentation folder available on your network from which you can access the documentation (PDF) files.

Note To read the PDF files, you must use the free Adobe Acrobat Reader™ version 7.0 or later. This program can be downloaded from the Adobe Web site (http://www.adobe.com).

Note Before calling Agile Support about a problem with an Oracle Agile EDM manual, please have the full part number ready, which is located on the title page.

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Readme

Any last-minute information about Oracle Agile EDM can be found in the Release Notes file on the Oracle Technology Network (OTN) Web site (http://www.oracle.com/technology/documentation/agile_eseries.html)

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Go to the Oracle University Web page (http://www.oracle.com/education/chooser/selectcountry_new.html) for more information on Agile Training offerings.

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Chapter 1

Introduction

This document describes the steps necessary to upgrade an Agile e6.1.2.2 to Agile e6.1.3.0.

The Upgrade covers the update of the database dump and the client Installation.

Note Because of changes in the Agile e6.1.3.0 architecture, an existing Agile e6.1.2.2 server installation cannot be migrated to Agile e6.1.3.0. You are required to install a new Agile e6.1.3.0 server.

Chapter 2

Prerequisites

Database

Agile e6.1.3.0 requires the same Oracle Database version 11g Release 2 (11.2.0.3) as Agile e6.1.2.2. No upgrade of the database server and client software need to be executed.

Agile e6 Server

Note The Agile e6.1.3.0 server has to be newly installed!

Install Agile e6.1.3.0 Server

1. Please refer to the Agile e6.1.3.0 installation guides for the relevant documents
   - Platform Support for Agile e6.1.3.0
   - Prerequisites Guide for Agile e6.1.3.0 to install the correct operating system patches
   - Server Installation Guide for Agile e6.1.3.0 to install Agile e6 server components
2. Create the applications which point to the database schemas which you want to upgrade.
   - Administration Guide for Agile e6.1.3.0.

Chapter 3

Upgrading the Applications

Depending on your requirements, refer to the topics:

- Dump Upgrade of all Applications

  During the patch upgrade with the gui installer, all applications associated to your installation will be updated.

- Dump Upgrade of a Single Application

  Performs a patch upgrade for only one single application.

Dump Upgrade of all Applications

This section describes how to patch upgrade all application of a single installation with the Installer.

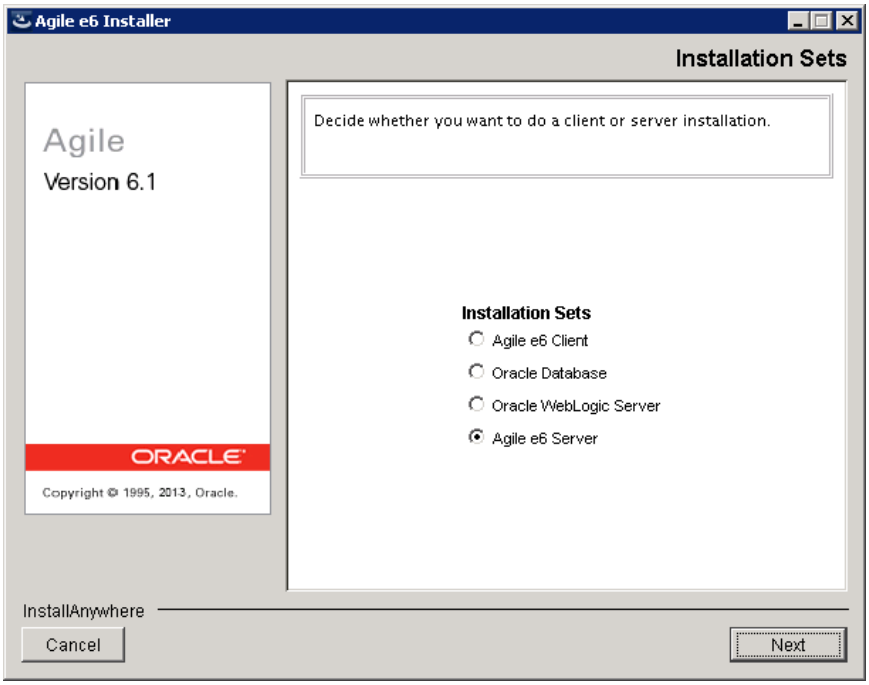
3. Open a command shell and change the directory to <installation-media-path>/installer/.
4. Execute the following in the cmd (Windows) or csh (UNIX) shell:

Windows	UNIX
set JAVA_HOME=<JAVA7_HOME>	setenv JAVA_HOME <JAVA7_HOME>
set ORACLE_HOME=<ORACLE_HOME>	setenv ORACLE_HOME <ORACLE_HOME>

5. To start the installer, execute:

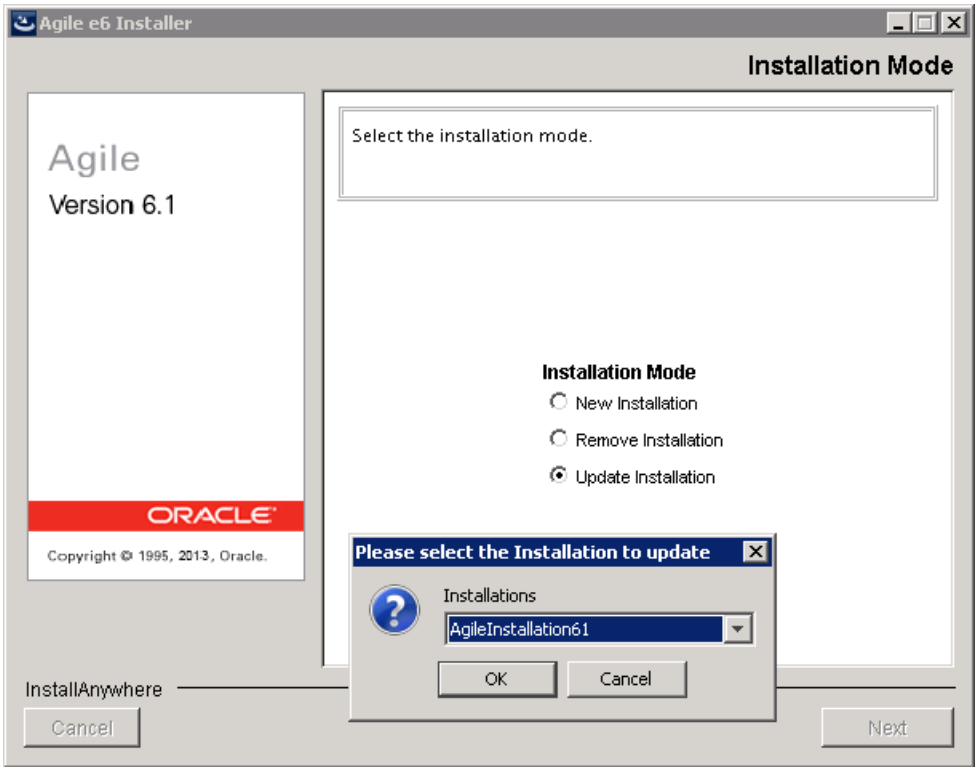
Windows	UNIX
gui.cmd	./gui.csh

   The Installation Sets mask is opened.



6. Select Agile e6 Server and click Next

   The Installation Mode mask is opened.



7. Select Update Installation and click Next.

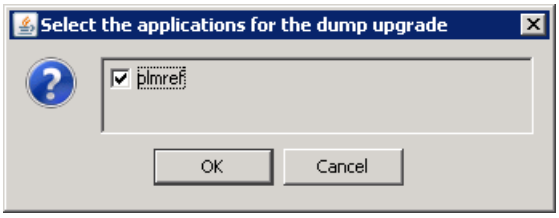
   The Please select the Installation to update window is opened.

8. Select the Installation name of the installation you want to apply the upgrade patch to.

   By default there is only one installation.

9. Click OK.

   The Select the applications for the dump upgrade window is opened.



10. Select the application(s) for which you want to perform a dump upgrade.

Note The dump upgrade can be executed manually. For further information, please refer to the chapter Dump Upgrade of a Single Application.

After the dump upgrade has been performed for the selected application, please check the log files for possible conflicts. For more information on these log files please refer to the chapter Appendix.

11. Click OK.

    The patch upgrade is started.

12. Once the patch upgrade process finished, check the log files (see Appendix).

Note Skip the next topic and go to Agile e6.1.2.2 Client Update.

Dump Upgrade of a Single Application

This section describes how to carry out the patch upgrade on a single application.

During the patch upgrade with the gui installer, a selected application associated to your installation can be upgraded.

Note The upgrade with the gui installer can only be started once for an installation. No further dump upgrades can be performed with the gui installer.

With the patch upgrade of a single application only one database schema will be changed. No software changes will be performed. This can be used to test the upgrade of a specific application for possible errors during the database patch upgrade.

1. Open a command shell and change to the following directory:

Windows	UNIX
installation-media-path>\installer\tools\dumpupgrade6130\cmd	<installation-media-path>/installer/tools/dumpupgrade6130/scripts

2. Execute in command shell:

Windows	UNIX
set JAVA_HOME=<JAVA7_HOME>	setenv JAVA_HOME <JAVA7_HOME>
set ORACLE_HOME=<ORACLE_HOME>	setenv ORACLE_HOME <ORACLE_HOME>

patchupgrade.cmd(.sh) <ep_root> <application> > patchupgrade.log

Examples:

Windows	UNIX
patchupgrade.cmd c:\plm plmref > patchupgrade.log	./patchupgrade.sh /app/plm613 plmref > patchupgrade.log

3. After the patch upgrade, check the log files (see Appendix).

Chapter 4

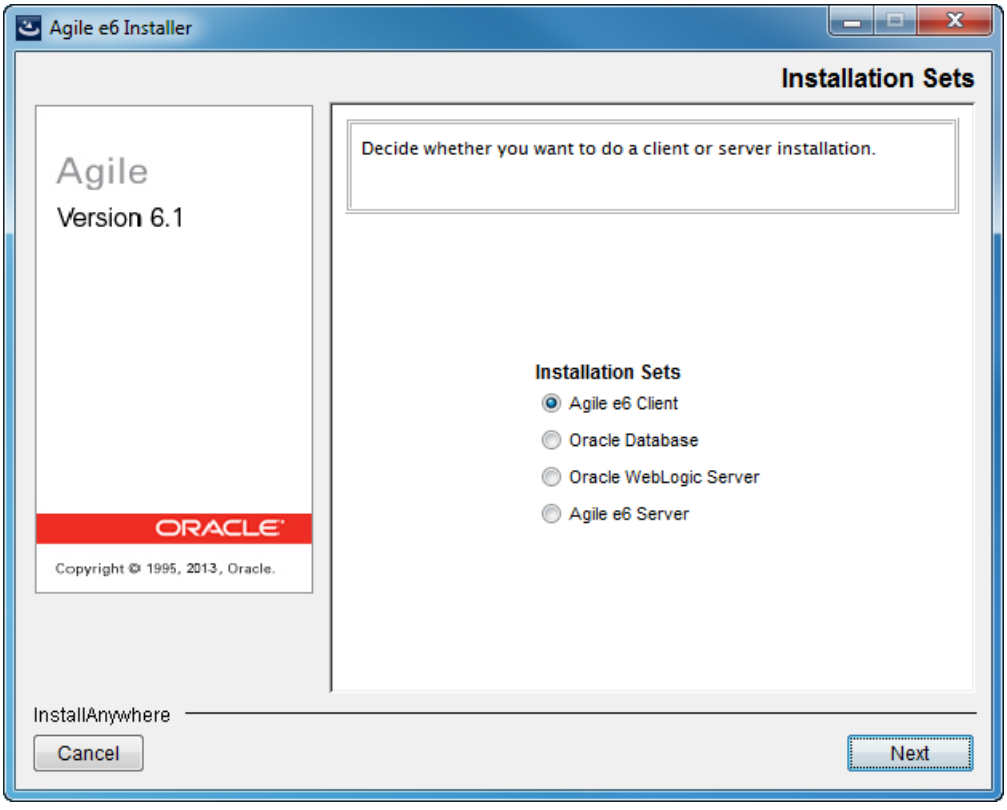
Upgrading the Agile e6.1.2.2 Client

To upgrade the native Client installation:

1. Extract the downloaded installation file.
2. Log in with your Agile e6.1.3.0 installation user.
3. Open a command shell on Windows.
4. Change to the Installer directory …\installer.
5. Set JAVA_HOME

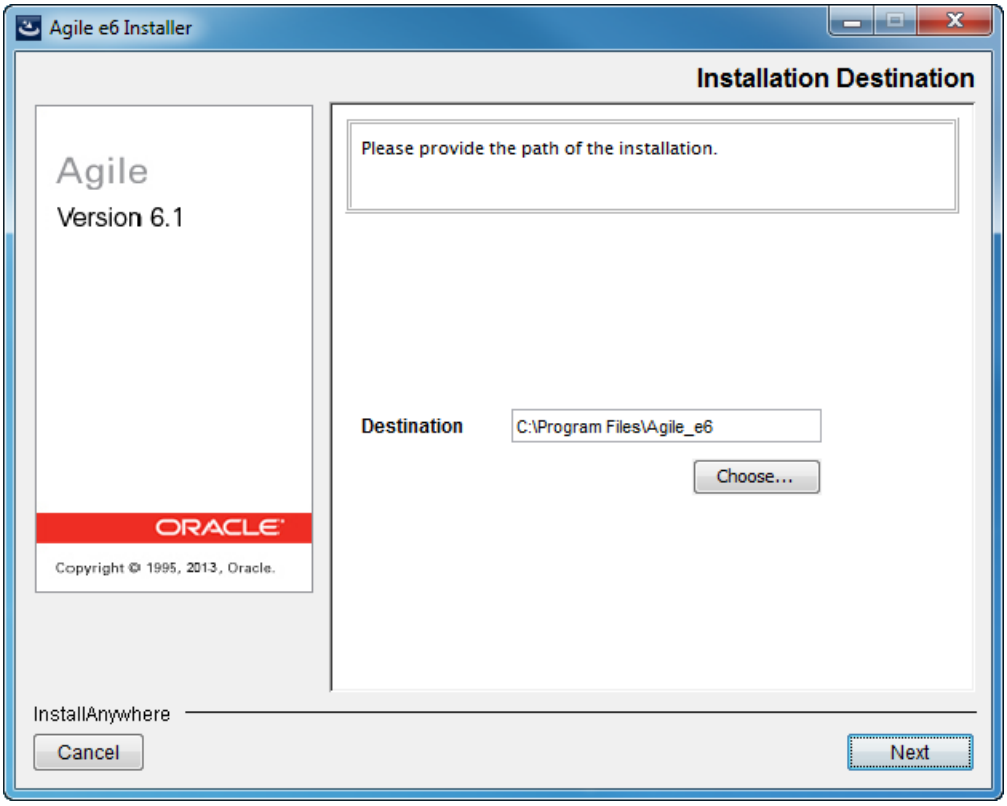
   e.g. Windows: set JAVA_HOME= C:\Program Files (x86)\Java\jre7
6. To start the installer, execute “gui.cmd”.

   The Installation Sets mask is opened.



7. Select Agile e6 Client and click Next.

   The Installation Destination mask is opened.



8. Select the destination where you want to install the Agile e6.1.3.0 Java Client.

   The previously installed Java Client for Agile e6.1.2.2 will be removed and replaced.

9. Click Next to start the installation.

Agile Client Silent Install/Upgrade

Note For a detailed description of the silent installation, refer to the Installation Guide for Agile e6.1.3.0 Windows Client.

1. Unpack <installation_package_root>\packages\intel-ms-nt5.1\clientjavamsi.zip.

   The file JavaClient.msi can be found in the directory axalant\bin\intel-ms-nt5.1.

2. Execute the silent installation for the Java Client:

   Example:

```
msiexec /qb /i JavaClient.msi ALLUSERS=2 JAVA_HOME="C:\Program
Files (x86)\Java\jre7" TARGETDIR="C:\Program Files\Oracle\Agile Java
Client"
```

Chapter 5

Appendix

Additional Upgrade Information

The following information describes the background process running while upgrading the database dump.

The database upgrade is based on a standard Agile upgrade tool and has the following directories:

- JAR archive
- SQL scripts
- Pre-configured XML control files

Note All changes will be saved directly in the dump.

Note For the patch upgrade, no reference dumps are needed. Therefore, pre-configured XML control files to delete, insert, and update actions are delivered with the upgrade package. During the execution of these files the conflict recognition helps to locate possible weak points.

Since the patch upgrade runs in silent mode, the whole procedure is combined in a single shell script. After calling this script, SQL files are executed on the specified dump, and data modifications will be made through a JDBC driver.

The following steps are executed during the database dump patch upgrade:

1. Parameters are passed to the application's ep_root path, environment name, host name, port number, and SID of the Oracle database.
2. Repository update with previously generated XML control (delivered with the package) is executed.

   During this update, conflicts are logged in an errors.log file.
3. The step "Synchronize repository" is executed.

   This ensures the customer database dump has the new table and index structure.
4. The SQL script del_and_save_lvmodel_diff.sql is executed.

   This deletes/saves logical models, which have to be re-inserted because they were modified in Agile e6.1.3.0.
5. All remaining configuration tables will be updated – similar to step 4.
6. Views, triggers, stored procedures, etc. must be recreated.

   This is possible with a cre_rep_edb_diff.sql script, which should be created for the Agile e6.1.3.0 dump.

This script contains only objects that were changed since Agile e6.1.2.0. Additionally, a script containing all database objects has also DDL statements available (cre_rep_edb.sql).

7. Finally, all objects are recompiled, and a list of all objects, still invalid in the schema, is stored in an invalid_objects.log file.

LogiView Upgrade

Some standard LogiView procedures are changed in Agile e6.1.3.0. The following list shows the affected logic models:

- GdmOffice /VsdGet
- GdmTools /ChooseDialog
- GdmWorklist /StartCadimGdm
- EP_APP /AppViewAffObj
- GdmOffice /XlsSave
- EP_APP /AppRedline
- GdmBatch /StopSpooler
- GdmOffice /PptSave
- GdmOffice /XlsGet
- GdmOffice /DocGet
- GdmOffice /Print
- EP_APP /LoaDoc
- EP_APP /AppView
- GdmOffice /DocmPrint
- EP_APP /LoaDocAffObj
- EP_APP /LoaDocChgOpr
- EP_APP /AppChgOpr
- GdmProperty /Write
- GdmOffice /DocClose
- GdmOffice /DocSave
- GdmOffice /PptClose
- GdmOffice /PptGet
- GdmOffice /VsdSave
- PrpFavorite /GetEntInfo
- GdmMenu /Put

- PrpExplorer /AddExpObj
- GdmOffice /PptOpenFile
- GdmTools/ChooseDialog

All existing LogiView logic models in the current database dump that contain the above-mentioned procedures will be deleted if they are identical. Otherwise, they will be renamed automatically.

The new logic models will be re-inserted. After the patch upgrade, the renamed LogiView procedures have to be compared with the newly inserted procedures. If the previous changes are still required, they have to be added manually.

Dump Upgrade Log Files

Log files are created and stored in a separate environment subdirectory. After the database dump upgrade is finished, these files have to be reviewed. Especially the errors.log file, to make sure that no conflicts occurred. If conflicts have occurred, manual dump adaptations have to be made.

- Errors.log:

  Contains all errors that occurred during the dump upgrade.

  The errors.log file points to the following log files:

  - Errordetail.log

    Contains technical information.
- Testconnection_customer.log:

  Check this log file for successful connection via SQL*Plus.
- Check these log files for errors.
  - dtv433-434.log:
  - /log/dtv6122-6130.log
- Cre_rep_edb_diff*.log:

  Check that this script was executed successfully. Following errors can be ignored:

  - ORA-00001: unique constraint violated
  - ORA-00904: invalid identifier
  - ORA-00942: table or view does not exist
  - ORA-00955: name is already used by an existing object
  - ORA-01408: such column list already indexed
  - ORA-01418: specified index does not exist
  - ORA-01452: cannot CREATE UNIQUE INDEX; duplicate keys found
  - ORA-04080: trigger does not exist

- del_and_save_lvmodel_diff.log:

  Check which logic models were dropped / saved. Changes that were made during the save procedure must be re-implemented after the dump upgrade.

- db_defaults.log:

  Check this log file for errors.

- Invalid_objects.log:

  Check this file for invalid objects within the database dump.