

Agile

Version e6.1

ORACLE®

Oracle® Agile Engineering Data Management

Patch Upgrade Manual for Windows and Unix for
Agile e6.1.2

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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) (<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.

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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) (http://www.oracle.com/technology/documentation/agile_eseries.html)

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Chapter 1

Prerequisites

Database

Agile e6.1.2 requires a running Oracle Database 11gR2 (11.2.0.1).

Oracle 11gR1 Database

If your Agile e6.1.1 application used a 11.1.0.6/7 database, you have to export your database schema associated with the application and to import it to the newly created 11.2.0.1 database.

Use the Oracle Export/Import utilities to move the database schema from 11.1.0.6/7 to 11.2.0.1 database.

Agile e6.1.1 Server

Because of some important changes in the e6.1.2 architecture, an existing e6.1.1 server installation cannot be upgraded to e6.1.2. You require a new e6.1.2 server installation.

If your current database version is 11.1.0.6/7, it is required to install the Oracle 11gR2 (11.2.0.1) database. However, if the current database version is 11.2.0.1, no new Oracle database installation is required.

Note Do not carry out the patch upgrade on an existing e6.1.1 installation.

Agile e6.1.2 Server

- Install Oracle 11gR2 (11.2.0.1) database if your current database release is 11.1.0.6/7
- On the e6.1.2 server a 32Bit 11gR2 oracle client is required.
- Install e6.1.2 server

Note Please refer to the Agile e6.1.2 installation manuals for the relevant platform.

Note Please refer to the document 'Prerequisites Guide for Agile e6.1.2 including Pre-Installation Checklist' to install the correct operating system patches.

Note Create a backup copy of your existing e6.1.1 installation including the %ALLUSERSPROFILE%/agile (UNIX: \$HOME/agile) directory.

- Check the chapter Dump upgrade and the Appendix for more information about the dump upgrade.
- Create the applications which point to the database schemas you want to upgrade. **This database schema must be in the Oracle 11gR2 database.**

Note Applications that point to a database schema which contains the e6.1.1 version must not be used for login. Before first login perform the patchupgrade steps described in this document.

Note You can also create applications with a new e6.1.2 dump in the database schema. The patchupgrade will only perform the patch upgrade for the schemas with e6.1.1 version. The schemas with the e6.1.2 version will remain unchanged.

Agile e6.1.1 Client

- Point the JAVA_HOME environment variable to the installed Java Runtime Environment. This has to be a 32Bit Java 6 runtime for the client update.

Note Please refer to the document 'Prerequisites Guide for Agile e6.1.2 including Pre-Installation Checklist' to install the correct Java version (version 1.6).

Chapter 2

Upgrading the Applications

Depending on your requirements, refer to the topics 'Dump Upgrade of all Applications' or 'Dump Upgrade of a Single Application'.

During the patch upgrade with the gui installer all applications associated to your installation will be updated this is described in 'Dump Upgrade of all Applications'.

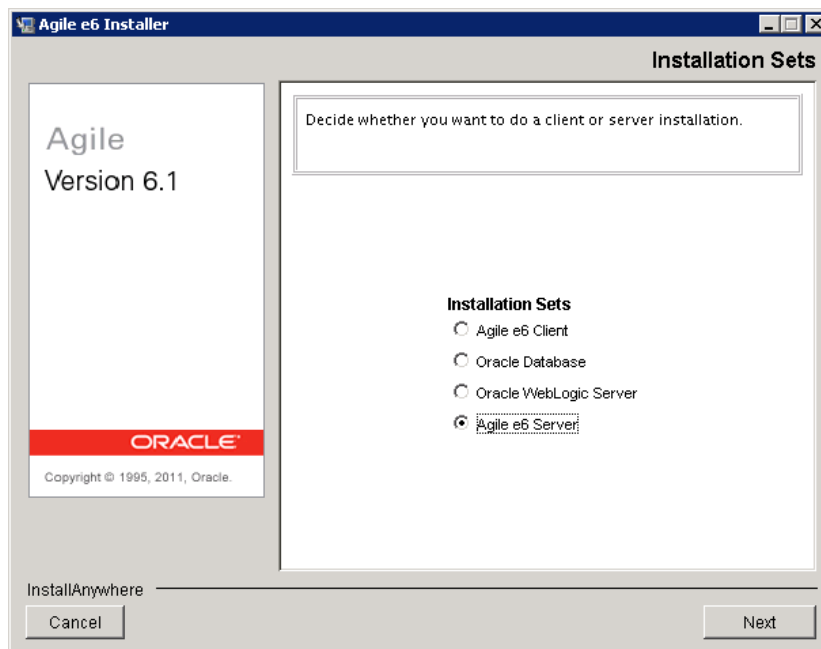
If you want to perform a patch upgrade of one single application this can be performed as described in 'Dump Upgrade of a Single Application'

Dump Upgrade of all Applications

1. Open a shell and change the directory to <installation-media-path>/installer/.
2. Execute the following in the cmd or csh shell:
set JAVA_HOME=<JAVA6_HOME> or setenv JAVA_HOME =<JAVA6_HOME>
set ORACLE_HOME=<ORACLE_HOME> or setenv ORACLE_HOME=<ORACLE_HOME>

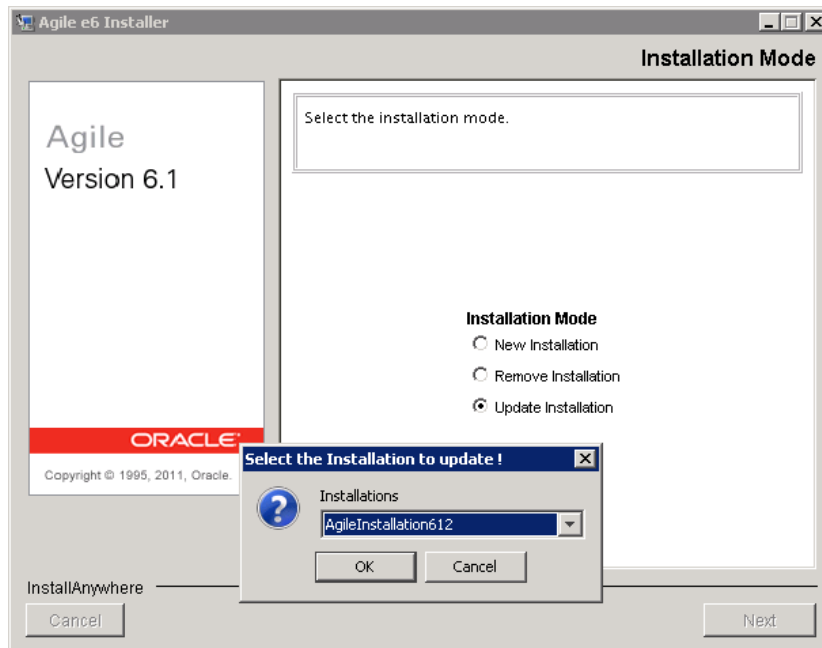
3. To start the installer, execute **gui.cmd** (or gui.csh on Unix).

The *Installation Sets* mask opens.



4. Select **Agile e6 Server** and click **Next**

The *Installation Mode* mask opens.



5. Select **Update Installation** and click **Next**.
6. Select the Installation name of the installation you want to apply the upgrade patch to. Normally there is only one Installation.
7. Click **OK**.
The patch upgrade starts.
8. Once the patch upgrade process finished, check the log files (see Appendix).

Note Skip the next topic and go to **Agile e6.1.1 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 all applications associated to your installation will be updated.

A patch upgrade of a single application means that only one database schema will be changed. No software changes will be performed. This can be used to upgrade a specific application in advance to verify if there occur errors during the database patch upgrade.

1. Open a shell and change to the <installation-media-path>/installer/tools/dumpupgrade611/cmd (Unix: ../dumpupgrade/scripts) directory.
2. Execute in cmd or csh shell:
set JAVA_HOME=<JAVA6_HOME> or setenv JAVA_HOME =<JAVA6_HOME>
set ORACLE_HOME=<ORACLE_HOME> or setenv ORACLE_HOME=<ORACLE_HOME>
patchupgrade.cmd(.sh) <ep_root> <application> <db_host> <db_port> <db_sid> >

patchupgrade.log

Examples:

patchupgrade.cmd c:\plm plmref db1.oracle.de 1521 plm61 > patchupgrade.log

patchupgrade.sh /app/plm612 plmref db1.oracle.de 1521 plm61 > patchupgrade.log

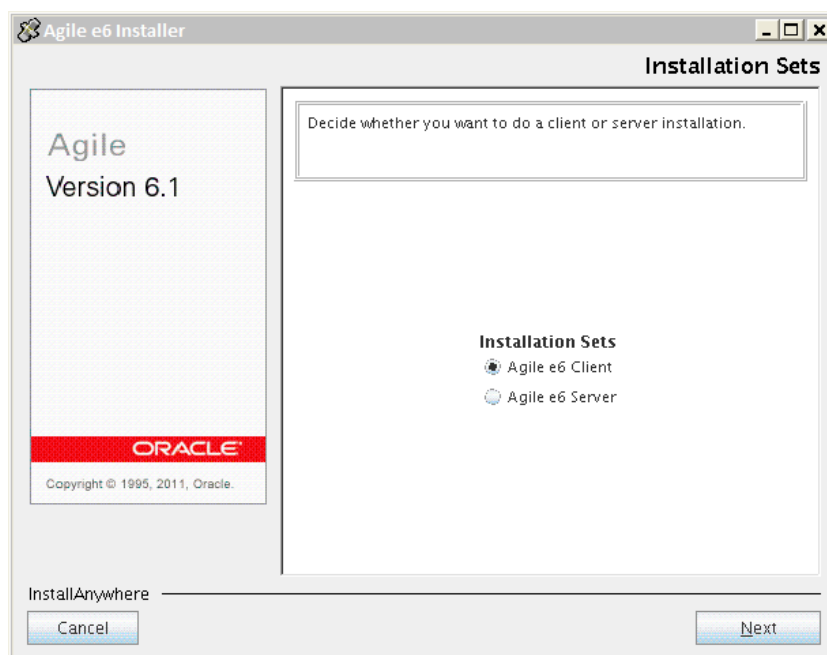
3. After the patch upgrade, check the log files (see Appendix).

Updating the Agile e6.1.1 Client

To update the native Client installation:

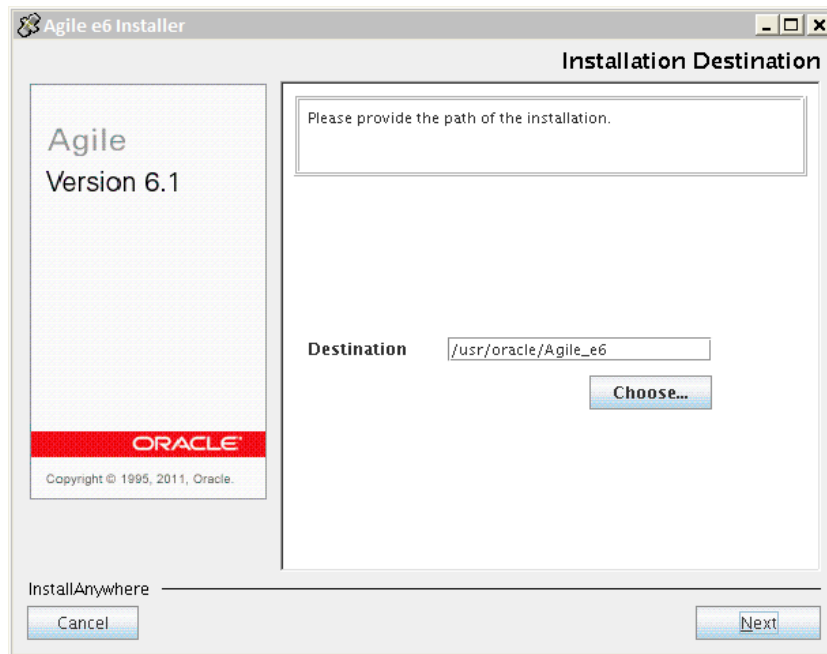
1. Extract the downloaded installation file.
2. Log in with your e6.1.1 installation user.
3. Open a cmd shell on Windows.
4. Change to the Installer directory ...\installer.
5. Set JAVA_HOME
e.g. Windows: set JAVA_HOME= C:\Program Files\Java\jre6
6. To start the installer, execute "gui.cmd".

The *Installation Sets* mask opens.



7. Select **Agile e6 Client** and click **Next**.

The Client *Installation Destination* mask opens.



8. Select the destination where you want to install the native JavaClient.
The previously installed JavaClient for e6.1.1 will be removed and replaced.
9. Click **Next** to start the installation.

Agile Client Silent Install/Update

For a detailed description of the silent installation, refer to the *Agile e6.1.2 Installation Manual for 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\Java\jre6" TARGETDIR="C:\Program Files\Oracle\Agile Java Client"
```

Chapter 3

Appendix

Additional Upgrade Information

The following information describes the background process running during the database dump upgrade.

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 for 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 `ep_root` path, environment name, host name, port number and SID of the Oracle database.
2. Repository update with previously generated (delivered with the package) XML control is executed. During this update, conflicts are logged in an *errors.log* file.
3. The step “Synchronize repository” is executed to ensure the customer database dump has the new table and index structure.
4. The SQL script `del_and_save_lvmodel_diff.sql` will be executed, which deletes/saves logical models, which have to be re-inserted since these were modified in Agile e6.0.4.
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 e6.0.4 dump. However, this script contains only objects that were changed since Agile e6.0.3. Additionally, a script where all database objects are included 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 e6.1.2. The following list shows the effected logic models:

- COP_MOD
- EP
- EP_APP
- EP_CNF
- EP_GRP
- EP_WFL
- EP_WFL_EWO
- GdmBatch
- GdmError
- GdmFile
- GdmFncOle
- GdmOffice
- GdmTools
- PrpExplorer
- PrpMask

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.
- **dtv433-434.log:** Check this log file for errors.

- **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.