

Agile  
Version e6.0

ORACLE

# Agile e6.0.4

Upgrade Guide from Agile e6.0.3 to Agile e6.0.4

Part Number: INSUPG-604C

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**August 10, 2007**

# REVISIONS

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Revision	Date	Pages Effected	Description
A	31/01/2007	All	Initial document
B	02/03/2007	1	MSSQL SP2 prerequisite added
C	04/07/2007	All	Update to e6.0.4
	24/07/2007	Appendix / Dump Upgrade Log Files	Error log file "Cre_rep_edb_diff*.log" has been added to list

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# Chapter 1

## Prerequisites

Before upgrading to Agile e6.0.4 check all listed items.

### General

- Please make sure that all Agile services are stopped before upgrading from Agile e6.0.3 to Agile e6.0.4
- Stop all running 'Web Presentation Service' environments (use the admin server)
- Stop running 'Business Service' in all environments (use the admin server)
- Stop other manually started Agile e services
- Save your existing installation, including the database, after you have stopped all services

Copy the whole installation directory

Save the database (save a dump, save your configuration)

- Oracle 10.1.0.4 or 10.2.0.3 incl. SQL\*PLUS must be installed on the machine
- At least 50 MB hard disk space must be available for the EP\_ROOT application home directory, and additional 50 MB for the log files
- Running the database upgrade requires a minimum 512 MB RAM.
- For Microsoft SQL Server 2005 database a service pack 2 must be installed

**Note:** The upgrade takes about 20 – 30 minutes for each environment.

### Windows

Except the 'Web Presentation' and Business Services which need to be stopped manually, all other services are automatically stopped. For more information about windows services, please refer to the Agile document *Installation Manual for Agile e6.0.4 on Windows Server* (PLM604\_WindowsServer.pdf.)

**Note:** Do not use the Windows Installer Repair function after you have upgraded your server software from Agile e6.0.3!

### Unix

Stop the running daemons:

- dtv\_dmn (Dataview daemon)
- httpd (http daemon)
- jade (java daemon)

For more information about the Unix daemons, please refer to the Agile document *Installation Manual for Agile e6.0.4 on Unix Server* (PLM604\_UnixServer.pdf) chapter "Checking for running processes".

# Chapter 2

## Upgrade on Windows

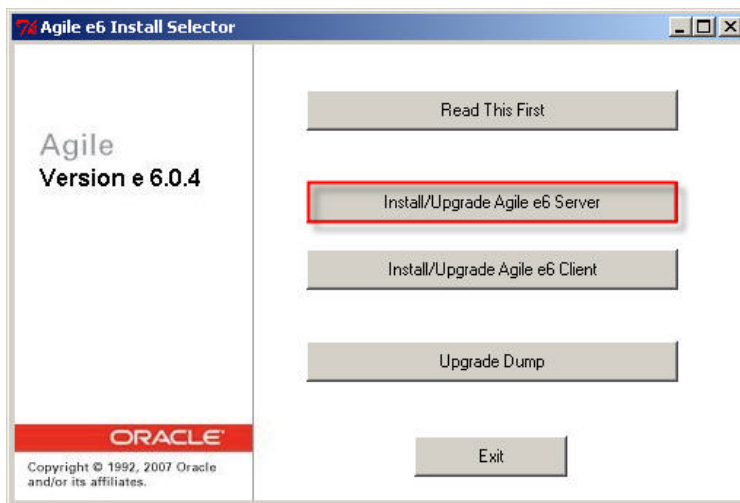
### Windows Server Upgrade

To upgrade the Agile e6 server complete the following steps:

1. Insert the Agile e6.0.4 installation DVD.

If the autostart feature is enabled on the machine, the Agile e6 main setup window opens automatically.

If the CD/DVD autostart feature is not enabled, open the window manually by double-clicking the file `setup.bat` in the root directory of the DVD.

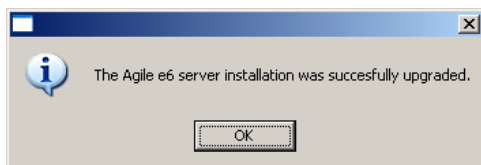


2. Click Install/Upgrade Agile e6 Server.

**Note:** A new server installation will be started if the software has not been installed on your system before.

3. Click OK.

The Agile e6 server will be upgraded and the progress is displayed. After the upgrade is finished, the following window is displayed:



4. Click OK to finish the server upgrade.

## Installing JBoss Application Server

You need to install the JBoss Application Server when using the Business Service. For a direct download of the JBoss archive file click the following link:

[http://downloads.sourceforge.net/jboss/JBoss-2.4.4\\_Tomcat-3.2.3.zip?modtime=1009612800&big\\_mirror=1](http://downloads.sourceforge.net/jboss/JBoss-2.4.4_Tomcat-3.2.3.zip?modtime=1009612800&big_mirror=1)

In case this link doesn't work or has changed, the required JBoss-Tomcat 2.4.4 file (JBoss-2.4.4\_Tomcat-3.2.3.zip) can also be found on the SourceForge.net website.

In the zip file there're the two following sub-directories underneath the main directory (JBoss-2.4.4\_Tomcat-3.2.3):

- jboss
- tomcat

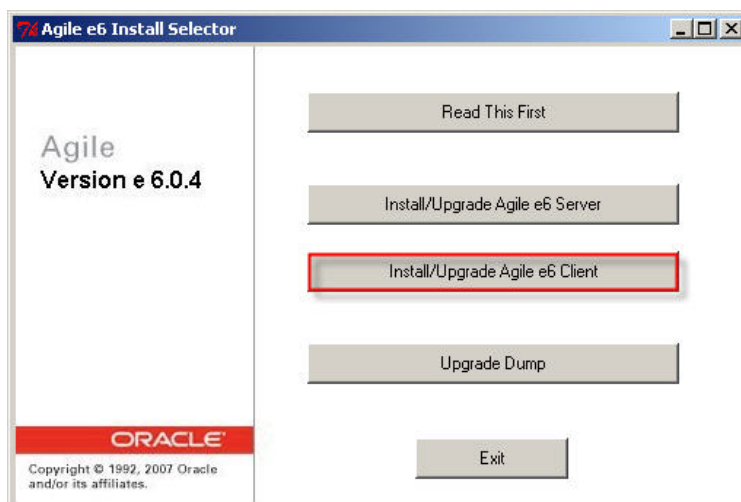
The jboss sub-directory has to be copied completely to the Server Installation directory (EP\_ROOT) under ext.

**Note:** When copying the files you will be prompted to overwrite files. Please confirm with YES.

**Note:** Please be aware that before upgrading there already exists a bin directory (ext/jboss/bin) in the Server installation. When copying the files make sure you don't create a second jboss directory underneath the already existing jboss directory (wrong: ext/jboss/jboss/bin). Otherwise the Agile Business Service won't work.

## Windows Client Upgrade

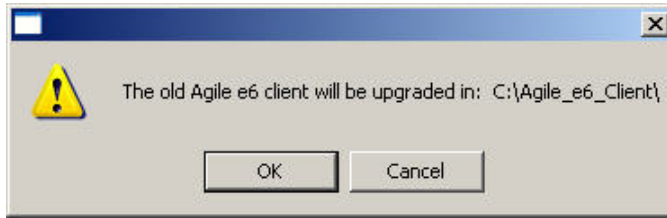
To upgrade the Agile e6 client, open the Agile e6 main setup window.



**Note:** To install a new client, refer to Chapter 3 of the *Installing Manual for Agile e6.0.4 Windows Client* (PLM604\_WindowsClient.pdf).

1. Click Install/Upgrade Agile e6 Client.

The following window will open.



2. Click OK to start the upgrade. The upgrade will be done automatically. Click of to finish the upgrade.

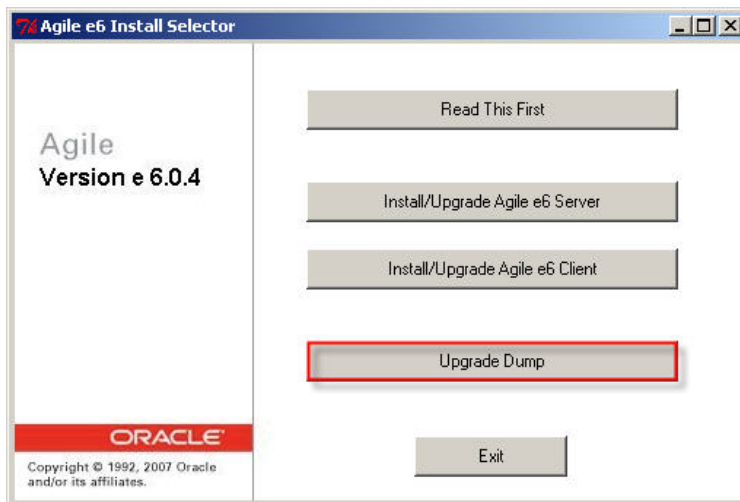
**Note:** If you have an old Office Suite installation, the Office Suite upgrade will start automatically. First the Office Suite is deinstalled and then installed in the next step.

## Database Dump Upgrade

**Note:** Before upgrading the dump, make sure to have upgraded the software as described in the chapters above.

**Note:** The system will automatically check if you are using an Oracle database or Microsoft SQL Server and then start the respective upgrade. Please check if the right database is upgraded.

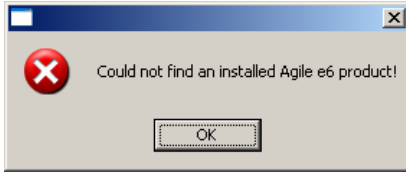
1. Open the Agile e6 main setup window.



2. Click Upgrade Dump.

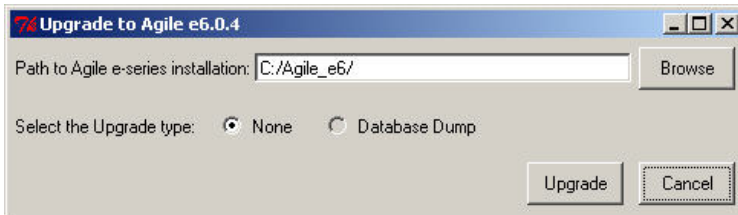
If the software has not been installed on your system before, the following message will be displayed.





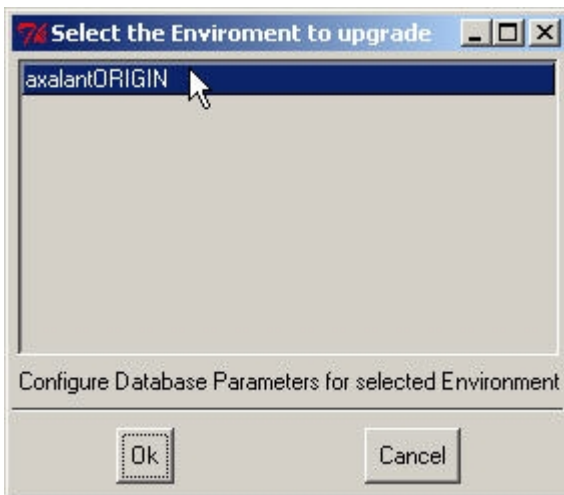
3. Click OK and continue to continue with the dump upgrade.

The following window is displayed.



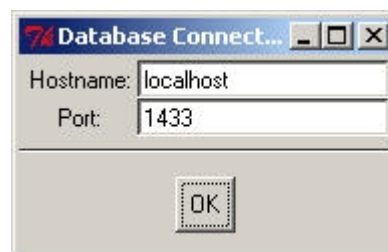
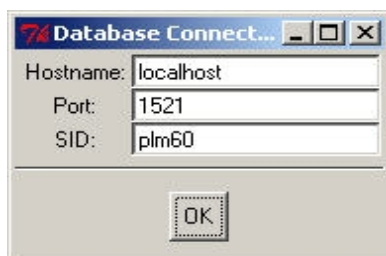
4. Select Database Dump.

This will open a new dialog window to select the environment that should be updated.



5. Select the environment e.g. axalantORIGIN and click OK.
  6. Confirm that the entries in the next window are correct and click OK.
- This window looks differently for Oracle and Microsoft SQL Server.

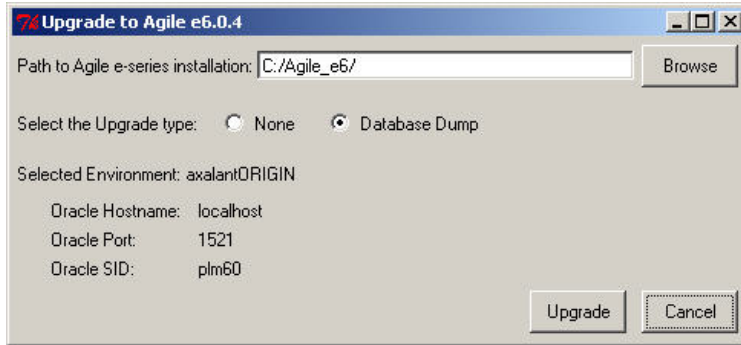
**Note:** The upgrade tool tries to read the following from your existing environment, but it cannot be guaranteed that all entries are correct.



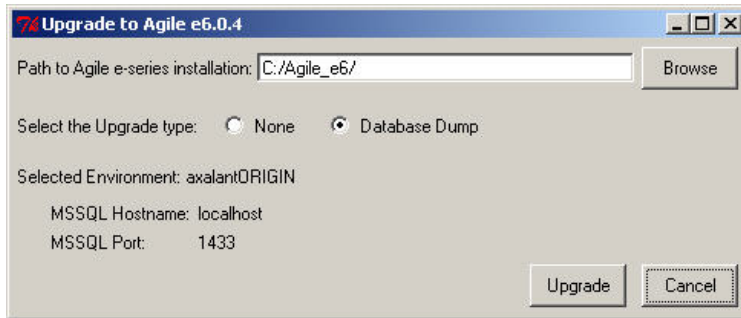
Oracle Upgrade

Microsoft SQL Server

The main window will be updated with the chosen values.



Oracle Upgrade



MS SQL Upgrade

7. Click Upgrade.

**Note:** The upgrade can take 20 – 30 minutes for each environment. The current window is not updated during upgrade thus it might appear blank or inactive.

The following dialog is displayed if the database dump upgrade is finished.



8. Check the database dump upgrade log files! The log files are updated when each section of the upgrade is finished. See the list of log files in the Appendix

**Note:** After the software upgrade is completed, for each environment where the Workflow Service is used, the Admin UIC has to be set with the admin tool. Please refer to *Administration Manual for Agile e6.0.4* (PLM604\_admin.pdf).

**9.** Click OK.

The Upgrade to Agile e6.0.4 window is displayed again.

**10.** To select another environment go back to step 1. Otherwise click **Cancel** to finish the upgrade.

# Chapter 3

## Upgrade on Unix

**Note:** The software needs to be upgraded before you can upgrade the database dump.

### Preparing the Upgrade

1. Log in as installation user.

The user must be the same one as the one who installed the existing software. Administrative access is not required.

2. Point the ORACLE\_HOME environment variable to the installed Oracle Database Installation. A client installation is sufficient.

```
echo $ORACLE_HOME
```

If `$ORACLE_HOME` is unknown to your shell environment, set it as follows:

In a c shell (csh):

```
setenv ORACLE_HOME <Path to the Oracle Directory>  
(e.g. setenv ORACLE_HOME /app/oracle/product/10.1)
```

In a k shell (ksh):

```
set ORACLE_HOME=<Path to the Oracle Directory>  
export ORACLE_HOME
```

**Note:** This environment variable is only needed to upgrade the Agile e6 software.

3. Test the correct setting of `$ORACLE_HOME` with the following command:

```
$ORACLE_HOME/bin/sqlplus -version
```

This should produce an output like the following one:

```
SQL*Plus: Release 10.1.0.4.0 - Production
```

4. Point the JAVA\_HOME environment variable to the installed Java Runtime Environment.

Minimum JRE 1.4\_09 should be installed on the machine and configured in the environment (`JAVA_HOME` must be set).

```
echo $JAVA_HOME
```

If `$JAVA_HOME` is unknown to your shell environment, set it as follows:

In a c shell (csh):

```
setenv JAVA_HOME <Path to the JRE Directory> (e.g. setenv JAVA_HOME /usr/j2se)
```

In a k shell (ksh):

```
set JAVA_HOME=<Path to the JRE Directory>
export JAVA_HOME
```

**Note:** This environment variable is always needed to upgrade and run the Agile e6 software. It should be set in the default startup file for the user who runs the Agile e6 software, e.g. in the \$HOME/.login file.

5. Test the correct setting of \$JAVA\_HOME with the following command:

```
$JAVA_HOME/bin/java -version
```

This should produce an output like the following one:

```
java version "1.4.2_11"
```

```
Java(TM) 2 Runtime Environment, Standard Edition (build 1.4.2_11-b06)
```

```
Java HotSpot(TM) Client VM (build 1.4.2_11-b06, mixed mode)
```

6. If you are working remote, please set the DISPLAY environment variable.

Check that your environment variable DISPLAY is set to your current working display by calling:

```
echo $DISPLAY
```

If \$DISPLAY is unknown to your shell environment, set it as follows:

In a c shell (csh):

```
csh-Shell
setenv DISPLAY <YourCurrentDisplay>:0.0 (e.g. setenv DISPLAY 192.168.0.2:0.0)
```

In a k shell (ksh):

```
ksh-Shell
set DISPLAY=<YourCurrentDisplay>:0.0
export DISPLAY
```

## Starting the Unix Software Upgrade

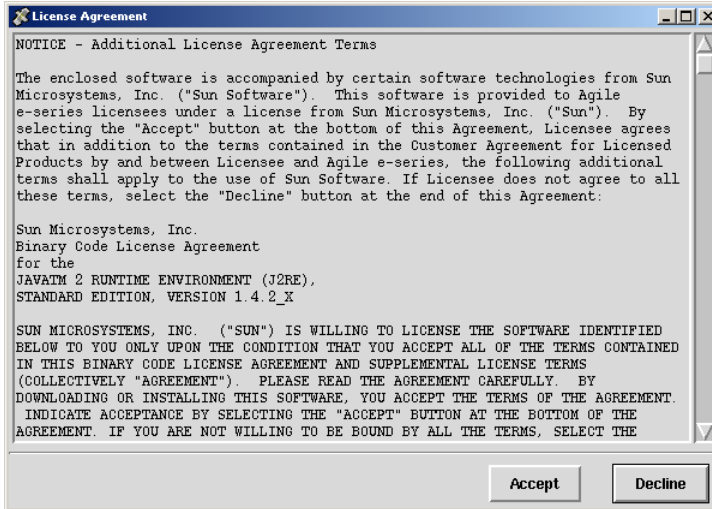
1. Start the upgrade by changing to the setup directory:

```
cd <dvd-path>/unix/setup
```

2. Enter the following command:

```
./setup
```

The license agreement is displayed.



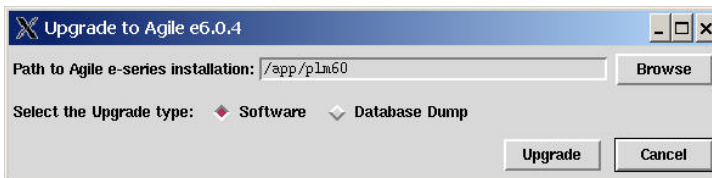
3. Click Accept.



4. In the next window select the installation type Upgrade.



5. Stop all active processes and click OK.



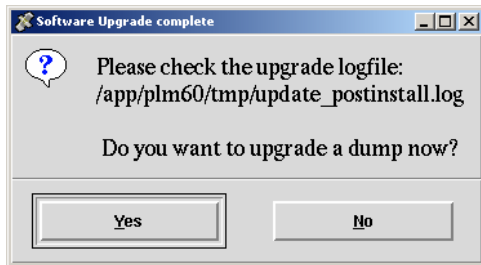
6. Select the location of the installed Agile Software and click Upgrade.

**Note:** If the main configuration file `init/ep.edb` was not found in the selected installation directory; the following error message is displayed.



- Click **Retry** to go back to the last dialog if this happens, or **Cancel** to exit the upgrade process.

The following dialog is displayed if the software upgrade is finished.



- Click **No** if you do not want to upgrade the database dump. Click **Yes** to continue with the database dump upgrade. .

**Note:** When upgrading on Unix it is not necessary to download the JBoss Application Server!

## Database Dump Upgrade

**Note:** Before upgrading the dump, make sure to have upgrade the software as described in the chapters above.

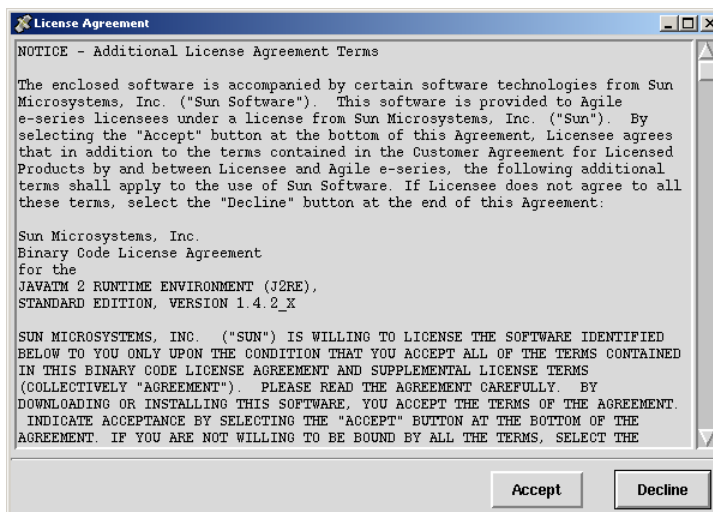
- Start the upgrade by changing to the setup directory:

```
cd <dvd-path>/unix/setup
```

- Enter the following command:

```
./setup
```

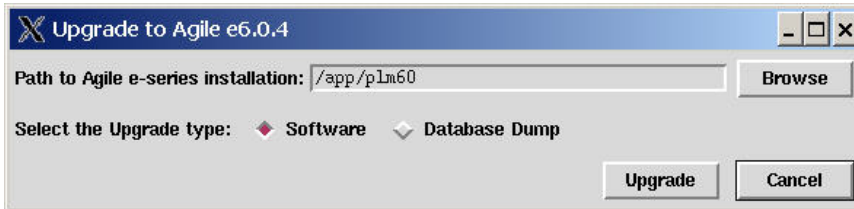
The license agreement is displayed.



- Click **Accept**.
- Select the installation type **Upgrade**.

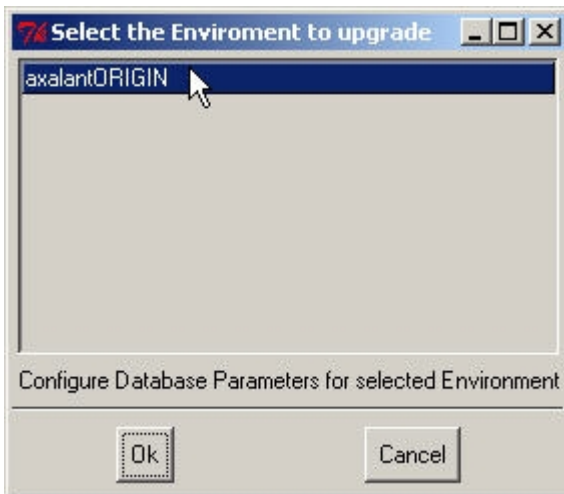


The setup dialog is opened.



5. Select Database Dump.

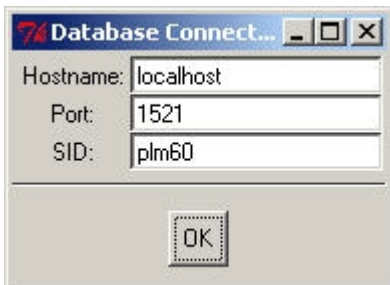
This will open a new dialog window to select the environment that should be updated.



6. Select the environment e.g. axalantORIGIN and click OK.

7. Confirm that the entries in the next window are correct and click OK.

**Note:** The upgrade tool tries to read the following from your existing environment, but it cannot be guaranteed that all entries are correct.



The main window will be updated with the chosen values.

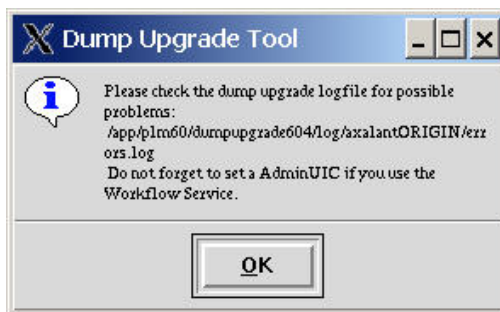




**8.** Click Upgrade.

**Note:** The upgrade can take 20 – 30 minutes for each environment. The current window is not updated during upgrade thus it might appear blank or inactive.

The following dialog is displayed if the database dump upgrade is finished.



**9.** Check the database dump upgrade log files! The log files are updated when each section of the upgrade is finished. See the list of log files in the Appendix

**Note:** After the software upgrade is completed, for each environment where the Workflow Service is used, the Admin UIC has to be set with the admin tool. Please refer to *Administration Manual for Agile e6.0.4* (PLM604\_admin.pdf).

**10.** Click OK.

**11.** The Upgrade to Agile e6.0.4 window is displayed again. Select another environment go back to step 1. Otherwise click Cancel to finish the upgrade.

## Chapter 4

# LogiView Upgrade

Some standard LogiView procedures were changed in Agile e6.0.4. The following list shows the effected logic models:

- EP\_GRP\_INHERIT
- GdmFile
- GdmMenu
- GdmOffice
- GdmProperty
- 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 when they were changed before.

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

# Chapter 5

## 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 / update actions are delivered with the upgrade package. During execution of these files conflict recognition helps to locate possible weak points.

Since the patch upgrade is running 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 drive.

These are the steps that 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 will be logged in an errors.log file.
3. The step “Synchronize repository“ is executed to ensure customer database dump has the new table and index structure.
4. 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.

# Chapter 6

## Appendix

### 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.

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.

## Client Profiles Changes (Agile e6.0/6.0.1 clients)

If you are upgrading from older Agile e6.0/6.0.1 clients, the following DataView client profile locations have to be modified in the Windows registry:

- ❑ HKEY\_LOCAL\_MACHINE\Software\PiSA\Profiles
- ❑ HKEY\_CURRENT\_USER\Software\PiSA\Profiles

The DATAVIEW\_CIPC environment entry changed from:

1:epclt\_winsock 57:psc\_dde to 1:epclt\_winsockvc6 57:psc\_dde

e.g.:

HKEY\_LOCAL\_MACHINE\Software\PiSA\Profiles\\_Default\Environment\DATAVIEW\_CIPC