

Agile

Version e6.1

ORACLE

# Oracle® Agile Engineering Data Management

Patch Upgrade Manual for Windows and Unix for  
Agile e6.1.1

Part No. E15619-01

September 2009



## Copyright and Trademarks

*Copyright © 1995, 2009, Oracle and/or its affiliates. All rights reserved.*

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this software or related documentation is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

### U.S. GOVERNMENT RIGHTS

Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, duplication, disclosure, modification, and adaptation shall be subject to the restrictions and license terms set forth in the applicable Government contract, and, to the extent applicable by the terms of the Government contract, the additional rights set forth in FAR 52.227-19, Commercial Computer Software License (December 2007). Oracle USA, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

This software is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications which may create a risk of personal injury. If you use this software in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy and other measures to ensure the safe use of this software. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software in dangerous applications.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

This software and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third party content, products and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third party content, products or services.

# CONTENTS

---

Copyright and Trademarks .....	iii
Preface .....	v
<b>Introduction</b> .....	<b>1</b>
<b>Prerequisites</b> .....	<b>3</b>
Database .....	3
Agile e6.1 Server .....	3
Agile e6.1 Client .....	4
<b>Update</b> .....	<b>5</b>
Enable Trace .....	5
Launch Installer .....	5
Agile e6.1 Server Update .....	6
Dumpupgrade of a Single Application .....	8
Post Server Update Tasks .....	8
Verify Agile e6.1 Server Update .....	9
Agile e6.1 Client Update .....	9
Agile e6.1 Client Silent Install/Update .....	11
<b>Appendix</b> .....	<b>12</b>
Additional Upgrade Information .....	12
LogiView Upgrade .....	13
Dump Upgrade Log Files .....	13
Software update server changes .....	14

# 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.

---

**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) (<http://www.adobe.com>).

---

---

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

---

## TTY Access to Oracle Support Services

Oracle provides dedicated Text Telephone (TTY) access to Oracle Support Services within the United States of America 24 hours a day, 7 days a week. For TTY support, call 800.446.2398. Outside the United States, call +1.407.458.2479.

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

## Agile Training Aids

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

## Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

## Accessibility of Links to External Web Sites in Documentation

This documentation may contain links to Web sites of other companies or organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these Web sites.



# Introduction

This document describes the steps necessary to upgrade an e6.1 installation to e6.1.1.



## Chapter 2

# Prerequisites

## Database

Agile e6.1.1 requires a running Oracle Database 11.1.0.7.

For information on how to apply the 11.1.0.7 patch set to an existing Oracle Database release 11.1.0.6 refer to the platform documentation on My Oracle Support (<https://metalink.oracle.com>).

Log in to “My Oracle Support”, go to the “Knowledge Home” and select “Oracle Technology” -> “Database” -> “All of Database”. Here you can select the documentation your your platform.

---

**Note** Please refer also to document ‘Oracle Database 11g Release 1 (11.1.0.7.0) Patch Set for Agile Engineering Data Management (Release e6.1.1) for Microsoft Windows (32-bit)’ of the Agile e6.1.1 Mediapack on E-Delivery (<http://edelivery.oracle.com>).

---

Review for your platform:

- “HP Itanium (64bit) README” ID: 800552.1
- “Linux 32bit README” ID: 800587.1
- “HPUX PA-Risc (64bit) README” ID: 800597.1
- “Solaris (SPARC) 64bit README” ID: 800551.1
- “Linux x86 64bit README” ID: 800550.1
- “AIX 5L (64bit) README” ID: 800594.1
- “Windows 32bit README” ID: 800603.1

## Agile e6.1 Server

- An operational Agile e6.1 installation.

---

**Note** Please refer to the document ‘Prerequisites Guide for Agile e6.1.1 Including Pre-Installation Checklist’ to install the correct operating system patches.

---

- Point the JAVA\_HOME environment variable to the installed Java Runtime Environment. This has to be a 32Bit Java5 runtime for the server update.
- Stop all running e6.1 Services and Processes (all axalant processes, all e6.1 windows services, Unix: dtv\_dmn, jade, Oracle Application Server and Database must be running during patch upgrade.

---

**Note** Create a backup of your database schemas used for your applications. This is necessary because during the installation a patch upgrade of all applications will be performed which will change the database schemas.

---

---

**Note** Create a backup copy of your existing e6.1 installation including the %ALLUSERSPROFILE%/agile ( Unix: \$HOME/agile ) directory.

---

- Check Appendix for more information about the dump upgrade and the software update.

## **Agile e6.1 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 e6.1.1 Including Pre-Installation Checklist' to install the correct Java version (version 1.6).

---

## Chapter 3

# Update

## Enable Trace

---

**Note** Please be aware that the trace output may contain your passwords that you applied during the installation.

---

If you want to have detailed trace messages for your GUI installation the following environment variables have to be set for Windows/UNIX:

---

**Note** The path to the log files has to be existing already.

---

Windows:

- set plm\_ant\_loglevel=4
- set plm\_ia\_stderr=C:\temp\iastderr.log
- set plm\_ia\_stdout=C:\temp\iastdout.log

UNIX:

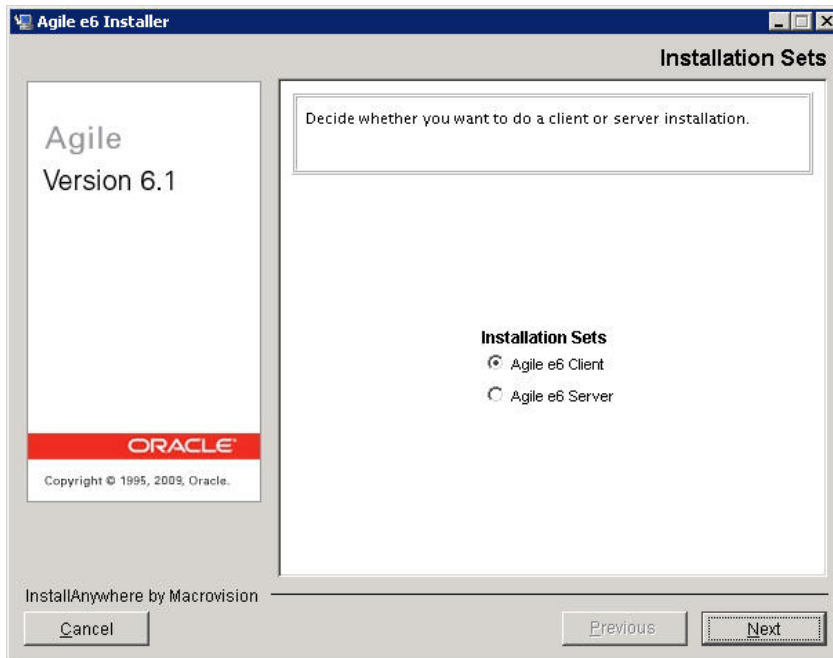
- setenv plm\_ant\_loglevel 4
- setenv plm\_ia\_stderr \$HOME/tmp/iastdout.log
- setenv plm\_ia\_stdout \$HOME/tmp/iastdout.log

## Launch Installer

The installer updates an Agile e6.1 server installation or an Agile e6.1 native JavaClient installation.

1. To launch the installer, extract the downloaded installation file.
2. Login with your e6.1 installation user.
3. Open a cmd shell on Windows or use a csh shell on Unix
4. Change to the Installer directory ... \installer.
5. Set JAVA\_HOME e.g.:  
Unix: setenv JAVA\_HOME /usr/local/java/jdk1.5  
Windows: set JAVA\_HOME= C:\Program Files\Java\jre1.5.0\_15
6. Set ORACLE\_HOME e.g.:  
Unix: setenv ORACLE\_HOME /app/oracle/product/11.1  
Windows: set ORACLE\_HOME=C:\oracle\product\11.1\db\_1

- To start the installer execute “gui.cmd” ( gui.csh ).  
The Installation Sets mask is opened.



- Depending on your selection follow the section “Agile e6 Server Update” or “Agile e6 Java Client Update”.

## Agile e6.1 Server Update

Perform the following steps on your Agile e6.1 server.

A patch upgrade which includes dump changes for all applications and software update of your selected installation will be performed.

If you only want to perform a patch upgrade for a single application without changing your installation follow steps described in section “Dumpupgrade of a Single Application”.

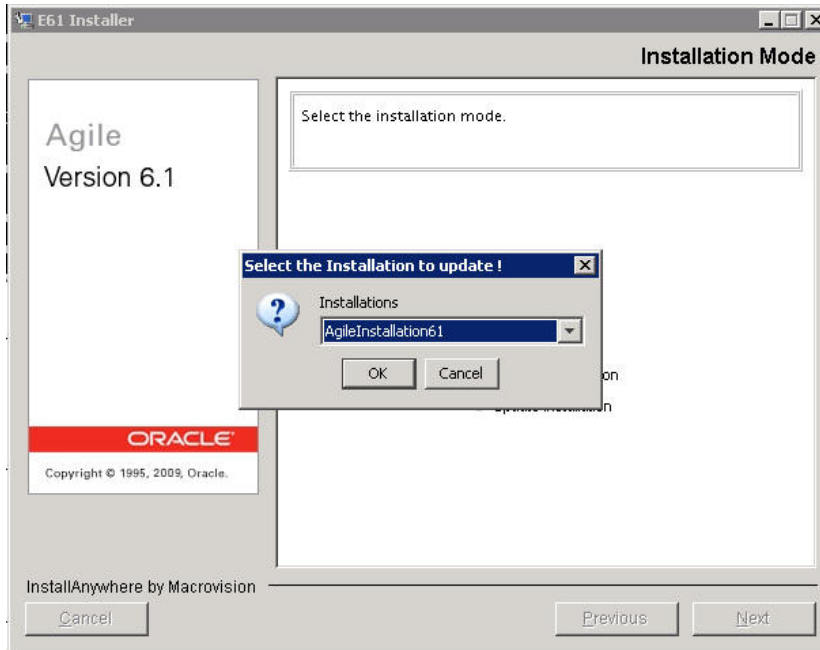
Additional information on the changed objects and log files created during patch upgrade can be found in the Appendix.

---

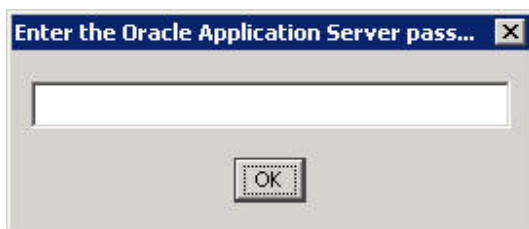
**Note** Create a backup of your database schemas associated with the applications before you start to patch your applications.

---

The Installation selection dialog mask is opened.



1. If you have done more than one installation on the server you can select from a list which installation you want to update. Select the installation you want to update and click “Ok”.



2. Apply the Oracle Application Server admin password and click “Ok”.  
The applied password will be verified against the Oracle Application Server. If the connection fails a message appears.



If the connection was successful, the installation/update starts. Depending on the size of your customizing and the number of applications to patch, the installation/update can take more than 1h.

---

**Note** During the patch upgrade you can check the current status in the log files  
<ep\_root>/installer/tmp/061100000/patchupgrade.log  
and

---

---

<ep\_root>/installer/tmp/061100000/dumpupgrade611/log/\*

**Note** Do not cancel the patch upgrade process; this can lead to inconsistent data in the database schema!

---

## Dumpupgrade of a Single Application

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

If you want to perform a patch upgrade of one single application this can be performed as described in this section.

A patch upgrade of a single application means that only the 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.

---

**Note** Create a backup of your database schema associated with the application before you start to patch your application.

---

1. Open a shell and change to the <installation-media-path>/installer/tools/dumpupgrade611/cmd (Unix: ../dumpupgrade/scripts) directory

2. Execute:

```
patchupgrade.cmd(.sh) <ep_root> <application> <db_host> <db_port> <db_sid> >
patchupgrade.log
```

e.g.:

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

## Post Server Update Tasks

In Agile e6.1.1, the default settings for the EPQ parallel connection have been changed to the following:

```
ParallelConnect="ON_DEMAND_CONNECT"
ParallelConnectTimeout="10"
```

They are defined in the <ep\_root>/init/<application>.xml file. Any existing <application>.xml files will NOT be changed during the patch upgrade. If you want these values to be activated for your existing applications you have to add them to your <application>.xml manually.

Your Database node in the <application>.xml file will then look like this:

```
<Database
  Library="epq10c_ora111"
  Vendor="Oracle" Version="111"
  User="plmref@melon" Pwd="plmref"
  DbBlobLocation="edb_lob"
  ParallelConnect="ON_DEMAND_CONNECT"
  ParallelConnectTimeout="10">
</Database>
```

Otherwise the “old” e6.1 value will be used:

```
ParallelConnect="NO_PARALLEL_CONNECT"
```

For additional details on the EPQ connection parameters refer to the “Environment Configuration Parameters” -> “Database Node” section in the PLM611\_Admin.pdf file.

## Verify Agile e6.1 Server Update

To verify if the patch upgrade check the log output of the patch upgrade of each selected application.

Check the file <ep\_root> /installer/tmp/061100000/log/<application>/errors.log (or the unpacked ../dumpupgrade611/log/<application>/errors.log for the manual patch upgrade) and follow the instructions mentioned there.

Additional information about the patch upgrade log files can be found in the Appendix

During the patch upgrade also the dtv repository will be replaced with the current version.

This means the password for the dtv “manager” user was also changed to the default password “manager” and must be changed at first logon with that user!

---

**Note** During the patch upgrade to Agile e6.1.1, existing standard views and procedures will be replaced by the Agile e6.1.1 standard views. This means that changed or adapted standard views and procedures will be lost. The changed and adapted standard views have to be reviewed and reapplied after the patch upgrade by changing the new views and procedures.

---

<b>Important</b> Do a complete test of your patched installation and applications!
--

## Agile e6.1 Client Update

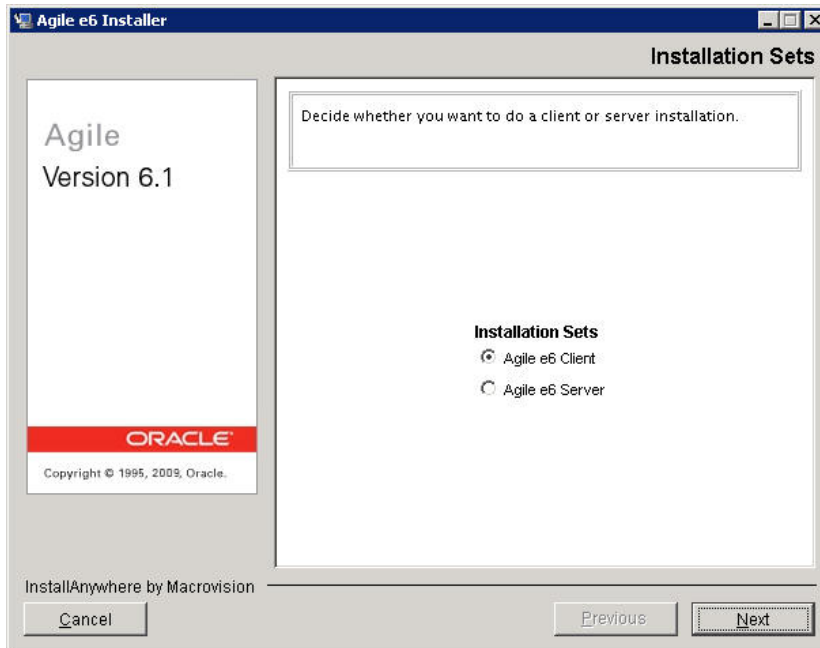
---

**Note** During your server update process, the Java client webstart application was already updated and the following steps don't need to be carried out.

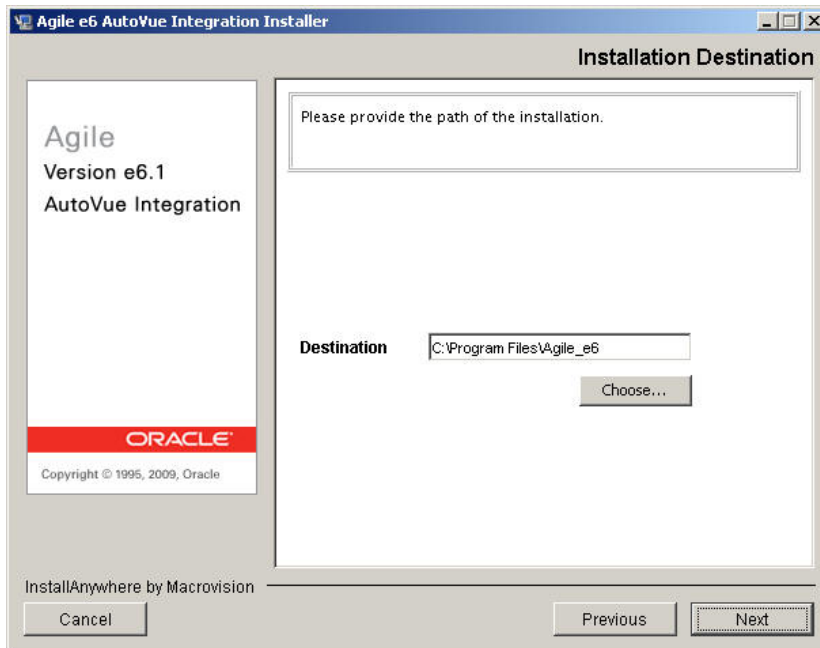
---

Follow these steps when updating the native Client installation:

1. Extract the downloaded installation file.
2. Login with your e6.1 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\jre1.6.0\_14
6. To start the installer execute “gui.cmd” .  
The Installation Sets mask is opened.



The Client Installation Destination mask is opened.



7. Select the destination where you want to install the native JavaClient. The previously installed JavaClient for e6.1 will be removed and replaced.
8. Click "Next" and the installation starts.

## Agile e6.1 Client Silent Install/Update

For a detailed description of the silent installation refer to the “PLM61\_WindowsClient.pdf” documentation of Agile e6.1.

1. Unpack <installation\_package\_root>\packages\intel-ms-nt5.0\clientjavamsi.zip.  
The file JavaClient.msi can be found in the directory axalant\bin\intel-ms-nt5.0.
2. Execute the silent installation for the Java client:

Example:

```
msiexec /qb /i JavaClient.msi ALLUSERS=2 TARGETDIR="C:\Program  
Files\Oracle\Agile Java Client" JAVA_HOME="C:\Program  
Files\Java\jre1.6.0_14"
```

## 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 driver.

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.

## LogiView Upgrade

Some standard LogiView procedures were changed in Agile e6.1.1. The following list shows the effected logic models:

- EP\_APP
- EP\_DFM
- EP\_WFL
- GdmError
- GdmFile
- GdmFncOle
- GdmMail
- GdmMenu
- GdmToolBar
- GdmZip
- PrpExplorer
- PrpFavorite
- PrpMenu

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.

## 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.los
  - 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 scripts 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.

## Software update server changes

The patch upgrade will move your existing installation completely to a new directory called "<plm\_inst\_root>.611.sav", and will then unpack the necessary files from the e6.1.1 source.

The files from the following directories will be copied during the patch upgrade from your originally saved installation, except those files which have been changed in the standard from e6.1 to e6.1.1 (detailed list see next paragraph).

```
<ep_root>/axalant/ini/  
<ep_root>/axalant/lay/notifier/  
<ep_root>/build/applicationServer/oc4j_1013/tpl/  
<ep_root>/build/tpl_app/  
<ep_root>/ext/apache-tomcat/  
<ep_root>/tmp  
<ep_root>/axalant/lck  
<ep_root>/axalant/tmp
```

Following configuration files will be changed by the patch upgrade to the e6.1.1 version. If you have made adaptations to those files in your original e6.1 installation these modifications will be lost. You have to reapply the modifications manually to those files if possible.

```
<ep_root>/axalant/ini/EIGNER_WFL.xsd  
<ep_root>/axalant/ini/jacc.defaults  
<ep_root>/axalant/ini/PS_wrapper.conf
```

```
<ep_root>/axalant/lay/notifier/MailGenerated.xml
<ep_root>/axalant/lay/notifier/MailTemplateTransform_HTML.xml
<ep_root>/axalant/lay/notifier/MailTemplateTransform_TEXT.xml
<ep_root>/axalant/lay/notifier/MessageEntries.properties
<ep_root>/axalant/lay/notifier/MessageEntries_de.properties
<ep_root>/build/applicationServer/oc4j_1013/tpl/tpl_data-sources.xml
<ep_root>/build/applicationServer/oc4j_1013/tpl/tpl_orion-web.xml
<ep_root>/build/applicationServer/oc4j_1013/tpl/tpl_web.xml
<ep_root>/build/tpl_app/tpl_ABS_env.ini
<ep_root>/ext/apache-tomcat/webapps/*
<ep_root>/ext/apache-tomcat/work/*
<ep_root>/<application>/lay/notifier/MailGenerated.xml
<ep_root>/<application>/lay/notifier/MailTemplateTransform_HTML.xml
<ep_root>/<application>/lay/notifier/MailTemplateTransform_TEXT.xml
<ep_root>/<application>/lay/notifier/MessageEntries.properties
<ep_root>/<application>/lay/notifier/MessageEntries_de.properties
```

This page is blank.