

Agile

Version e6.1

ORACLE®

Oracle® Agile Engineering Data Management

Installation Manual for Agile e6.1.2 Server on
Windows

Part No. E20350-01

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CONTENTS

Copyright and Trademarks	iii
Preface	v
Introduction	1
Where to Go for More Information.....	1
Preparing the Installation.....	3
Installation Order	3
Requirements	3
Further Requirements.....	4
Enable Trace	4
Installation with the Installer.....	6
Installation with GUI	6
Agile e6 Server	7
Oracle Database	13
Oracle WebLogic Server	16
Finalize the Operating System User Setup	17
AutoVue Integration Setup	17
Batch Installation	18
Resulting default e6 environment.....	18
Windows Services	19
WebLogic Domains	19
Ports	19
Links	19
Uninstall	21

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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Introduction

This guide describes how to install Agile e6.1.2 running Microsoft Windows Server 2008 SP2 64bit, Windows Server 2008 R2 64bit.

Where to Go for More Information

For complete information on installation prerequisites, including required operating system maintenance-level fixes and system patch levels, refer to the Prerequisites Guide for Agile e6.1.2.

For information on database preparation and requirements, refer to the Installation Manual for Oracle 11gR2 on Windows for Agile e6.1.2.

For information on Oracle WebLogic Server preparation and requirements, refer to the Installation Manual for Oracle WebLogic 11g Rel 1 (10.3.3) on Windows for Agile e6.1.2.

Chapter 2

Preparing the Installation

Before installing Agile e6, do the following:

1. Review the hardware and software requirements for your platform.
2. Set the necessary installation prerequisites.

Installation Order

1. Oracle Database Server 64 Bit / Client 32 Bit
2. Oracle Database Client 32 Bit
3. Oracle WebLogic Server
4. Agile e6 Server

Each of these four components has to be installed separately with the Agile e6 installer. Installation of multiple components in one step is not possible.

- Installing Oracle Database Server 64Bit with the e6 Installer will always install the Oracle Database Client 32Bit.
- Agile e6 Server (Daemons, Applications) require a locally installed Oracle Database Client 32 Bit.
- Agile e6 Server (J2EE Components) require a locally installed Oracle WebLogic Server.

Requirements

Note A complete list of all requirements can be found in the Prerequisites Guide for Agile e6.1.2.

If you are not the **Administrator**, but a user with **Administrator** privileges only, all installation tasks have to be executed in a **cmd** shell started with **Run as administrator**.

To open a **cmd** shell with **Run as administrator**, do the following:

1. Select **Start > All Programs > Accessories > Command Prompt**.
2. Select **Run as administrator** from the context menu.

The *User Account Control* Window appears.

3. Apply the needed credentials if asked and select **Yes/Continue** to go ahead.

The *Windows cmd* shell appears. This is the shell you have to use for all installation tasks.

Oracle WebLogic Server

If the Oracle WebLogic server should be installed with the Agile e6.1.2 installer, the installation

source file (wls1033_win32.exe) must be available on the hard disk first.

Further information about the Oracle WebLogic server can be found in the Installation Manual for Oracle WebLogic 11g Rel 1 (10.3.3) on Windows for Agile e6.1.2.

After the installation of the Oracle WebLogic Server the nodemanager must be configured.

The nodemanager should be installed and available as a service (e.g.: Oracle WebLogic NodeManager). If not, the windows service must be created manually with the command:

```
<MIDDLEWARE_HOME>\wlserver_10.3\wlserver_10.3\server\bin\installNodeMgr  
Svc.cmd
```

After the first startup of the nodemanager you have to configure it to use a "Plain" protocol. The configuration files are available after the first startup.

You have to change the properties to "SecureListener=false" in the file:

```
<WL_HOME>/common/nodemanager/nodemanager.properties
```

After the changes, restart the windows service.

Oracle Database 11gR2

If the Oracle Database 11gR2 (client or server) should be installed with the Agile e6.1.2 installer, the installation source has to be unpacked on the hard disk first. The Agile e6.1.2 installer supports only the Oracle Database version 11.2.0.1.0.

The Agile e6.1.2 installer supports only the 64bit version of the Oracle Database Server and a 32bit Oracle 11.2.0.1.0 client which is needed by the Agile e6.1.2 server.

Further information about the Oracle Database 11gR2 can be found in the Installation Manual for Oracle 11gR2 on Windows for Agile e6.1.2.

Further Requirements

- Point the JAVA_HOME environment variable to the installed Java Runtime environment. This has to be a **32Bit** Java6 runtime.
- Minimum Java Version is 1.6 Update 20.

Note Do NOT install on an existing production server that is in use.

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:

Note The path to the log files has to exist.

- set plm_ant_loglevel=4

- set plm_ia_stderr=C:\temp\iastderr.log
- set plm_ia_stdout=C:\temp\iastdout.log

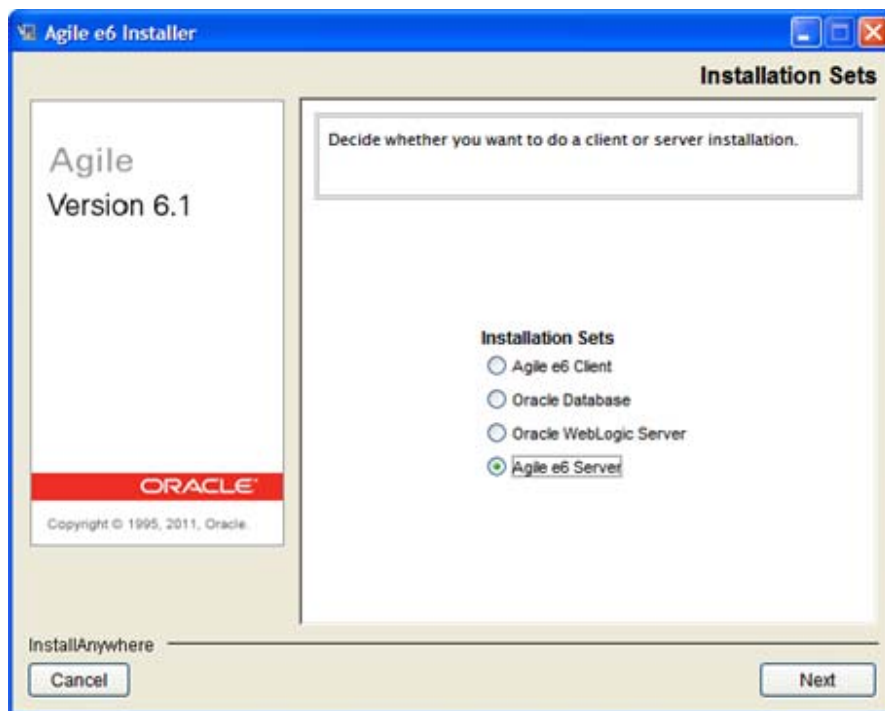
Chapter 3

Installation with the Installer

Installation with GUI

1. Extract the downloaded installation file.
2. Open a **cmd** (command) shell (see requirements) and change to the installer directory ...\\installer.
3. Set the JAVA_HOME environment variable.
4. Execute **gui.cmd** in the command shell.

The *Installation Sets* mask is opened.



Select an Installation Set

The Agile e6 client installation is described in the Installation Manual for Agile e6.1.2 Clients on Windows.

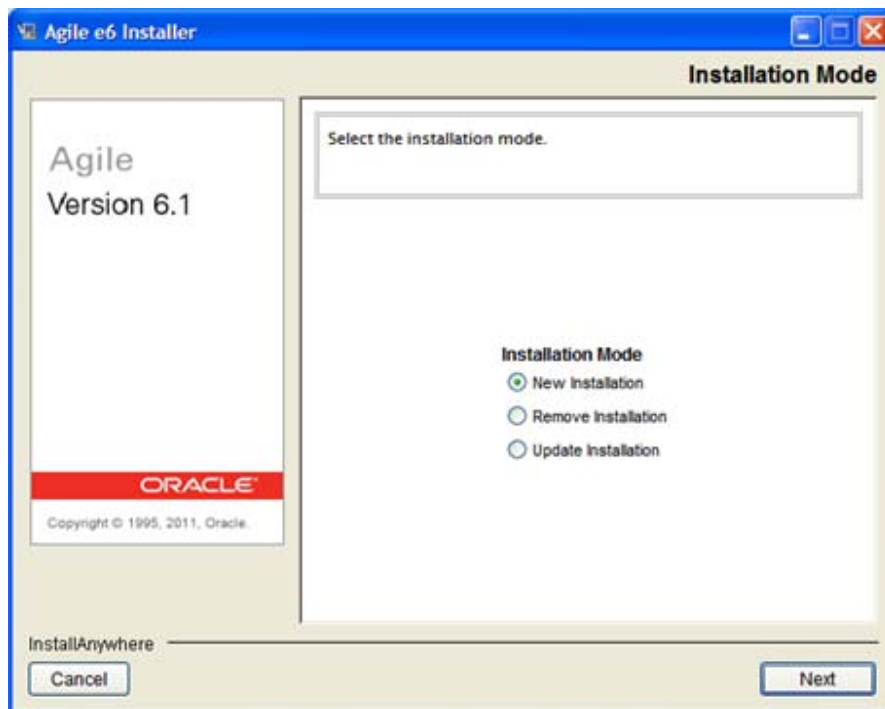
Depending on the selected installation, see the following sections for more detailed information:

- Agile e6 Server
- Oracle Database

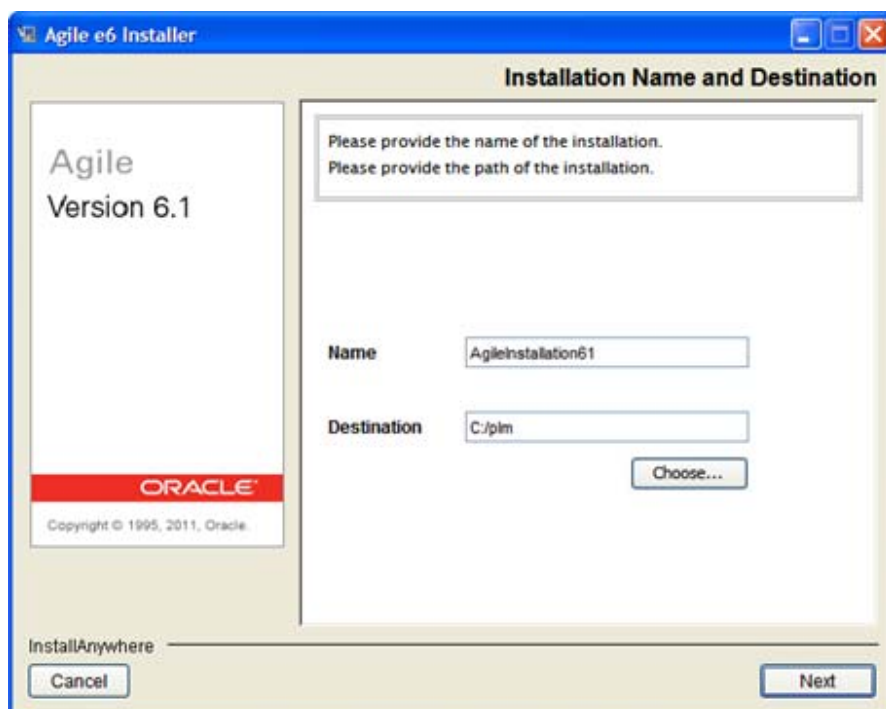
- Oracle WebLogic Server

Agile e6 Server

1. Select Agile e6 Server and click **Next**.
The *Installation Mode* mask is opened.

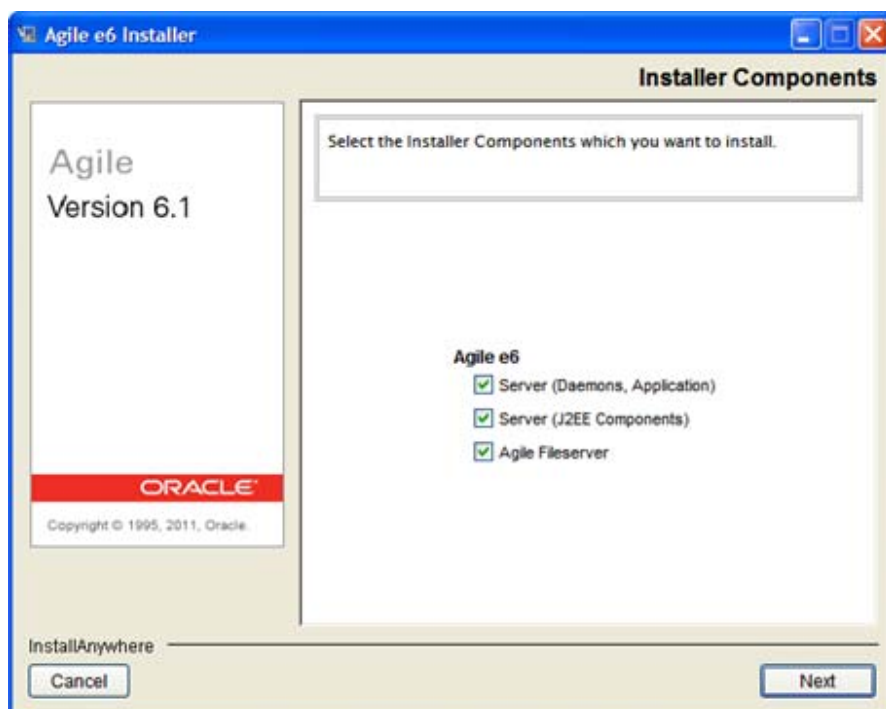


2. Select **New Installation** and click "Next".
The *Installation Name and Destination* mask is opened.



Field	Description
Name	Installation name. This has to be a unique name which identifies the current installation. All components installed during this installation session will be installed under this ID.
Destination	Installation destination. Root path where Agile e6.1.2 is going to be installed. This has to be a non existing path.

3. Enter the installation name and the installation destination and click **Next**.
The *Installer Components* mask is opened.



Component	Description
Server (Daemons, Application)	Core e6 server components. Java Daemon, DataView Daemon, initial Application, Portmapper. This requires an Oracle database client 32Bit already installed.
Server (J2EE Components)	J2EE e6 components All components which will be deployed to Oracle WebLogic server. This requires an Oracle WebLogic server already installed
Agile Fileserver	The Agile Application Files Server.

4. Select the component(s) to be installed and click **Next**.

The *Reference Configuration* mask is opened.

Note Depending on the selected installer components the following mask can look different.

The image shows a 'Reference Configuration' dialog box with two main sections: 'Configure used Database Instance' and 'Configure used Application Server'.

Configure used Database Instance:

- Client Home:** d:/oracle/product/11.2 (with a 'Browse...' button)
- SQLNet Connect:** plm61
- Host Name:** example.com
- SID:** (empty field)
- Port:** 1521

Configure used Application Server:

- Weblogic Home:** D:/oracle/Middleware/wlserver_11 (with a 'Browse...' button)
- Domain Root:** D:/oracle/Middleware/user_projects (with a 'Browse...' button)

At the bottom, there are 'Close' and 'Next' buttons.

Configure used Database Instance section

Setting	Description
Client Home	The Oracle database client 32Bit home directory
SQLNet Connect	The SQLNet connect string as defined in e.g. tnsnames.ora
Host Name	The host name of your database server.
SID	The SID of the database you want to connect to.
Port	The port where the listener listens on the database server.

Configure used Application Server

Setting	Description
WebLogic Home	The home directory where WebLogic is installed. (e.g.: C:\oracle\Middleware\wlserver_10.3)
Domain Root	The root directory where the e6 WebLogic domains should be created. (e.g.: C:\oracle\Middleware\user_projects\domains) In this directory the installer will create all domains used by the Agile e6 J2EE components.

5. When the reference configuration options are defined, click **Next**.

The *Component Configuration* mask is opened.

Note Depending on the selected installer components the following mask can look different.

Note Some of the values entered in the following masks will be validated. If the validation fails, a message containing the error is displayed. First the error has to be corrected before you can proceed!

Component Configuration

Agile e6

J2ee

Domain Name: eSeries_domain

WLS Admin Port: 7101

Admin PWD Installation...

Verify Password

WLS eSeries Port: 7103

JavaDaemon Host Name: KA-MSDN-01

JavaDaemon Port: 16087

Agile e6 File Server

Service Name: AgilePLM_FileService

Destination: c:/fms

Application

Name: plmref

Database User: plmref

Database Password

Verify Password

Import DB Dump: true

Create DB User: true

SYSTEM Password

Verify Password

J2EE Host: KA-MSDN-01

Http Host: KA-MSDN-01

Http Port: 7103

ECI Port: 19997

WS-ECI Port: 19998

WLS Admin Port: 7105

Admin PWD Application ...

Verify Password

WLS eSeries Port: 7107

EDB Admin UIC: 101

Mail Server

Dtv Daemon

Service Name: AgilePLM_DTVDaemon

Port Number: 552000610

Java Daemon

Service Name: AgilePLM_JavaDaemon

Port Number: 16087

Admin Port Number: 16088

Registration Port Number: 16089

Agile e6 **J2ee** section

Setting	Description
Domain Name	Name of the domain for the installation specific Agile e6 J2EE components:
WLS Admin Port	The listen port for the WebLogic administration server
Admin PWD Installation	The password of the WebLogic user used for the installation domain

Verify Password	The password entered above has to be repeated for verification.
WLS eSeries Port	The listen port for the WebLogic eSeries server. The installer will create a separate managed server with name "eSeries-01" in addition to the administration server. This server will contain the installation specific deployments.
Java Daemon Host Name	The hostname where the Agile e6 Java Daemon is/will be running
Java Daemon Port	The Java daemon port

Agile e6 Dtv Daemon section

Setting	Description
Service Name	The windows service name.
Port Number	The port number the daemon should use.

Agile e6 Java Daemon section

Setting	Description
Service Name	The windows service name.
Port Number	The port number the daemon should use.
Admin Port Number	The admin port number the daemon should use.
Registration Port Number	The registration portnumber the daemon should use.

Agile e6 File Server section

Setting	Description
Service Name	The windows service name.
Destination	The destination of the fileservice binaries.

The fileservice default rpc port is 804257548. To use a different rpc port you have to change the value in the registry after the installation has finished and restart the fileservice service:

HKEY_LOCAL_MACHINE\SOFTWARE\Agile\AgilePLM_Fileservice\RPC_NMB

Agile e6 Application section

Setting	Description
Name	The name of the default application you want to create (former axalantORIGIN)
Database User	The database user you want to use for the application.
Database Password	The password of the database user.
Verify Password	The password entered above has to be repeated for verification.
Import DB Dump	Select if you want the standard dump to be imported to the above defined database user.
Create DB User	Select if you want the database user to be created automatically.
SYSTEM Password	Password of the Oracle database user.

	Note You only have to apply a value here if you want to create a new database user and selected that in the field above.
Verify Password	The password entered above has to be repeated for verification.
J2EE Host	The host where WebLogic is running (the WebLogic server host name).
Http Host	The host where the Web client can be reached over http (the WebLogic server hostname) .
Http Port	The port where the Web client can be reached over http (the HTTP port of WebLogic server).
ECI Port	The port where the business service will be configured to "wait" for requests.
WS-ECI Port	The port where the Webservices will be configured to "wait" for requests.
WLS Admin Port	The listen port for the WebLogic administration server
Admin PWD Installation	The password of the WebLogic user used for the installation domain
Verify Password	The password entered above has to be repeated for verification.
WLS eSeries Port	The listen port for the WebLogic eSeries server. The installer will create a separate managed server with name "eSeries-01" in addition to the administration server. This server will contain the installation specific deployments.
Admin UIC	The UIC of an Agile e6.1.2 user to whom administrative emails should be send to.
Mail Server	If you want to send emails with the business services, define the name of your SMTP mail server. Otherwise use "nn".

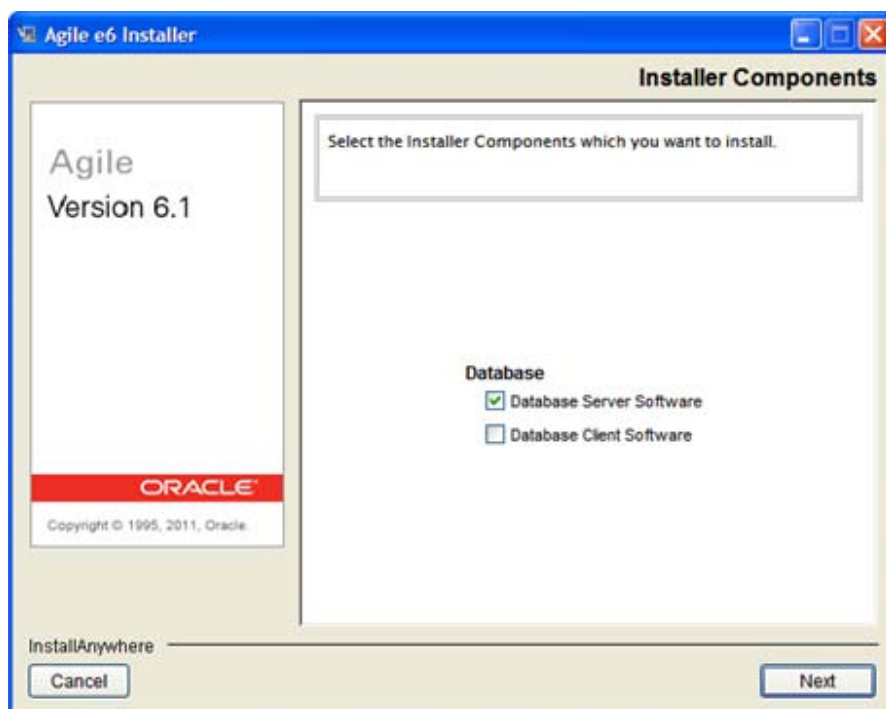
6. When the component configuration options are defined click "Next".

The e6 Windows Client installation starts.

Oracle Database

1. Select Oracle Database and click **Next**.

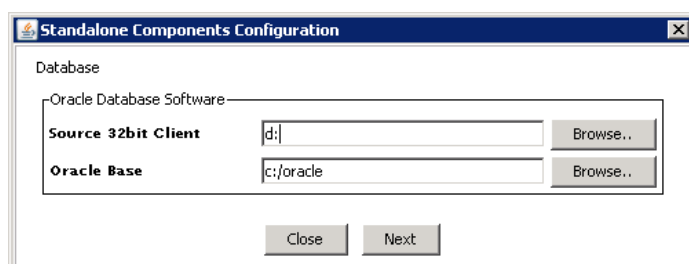
The *Installer Components* mask is opened.



Component	Description
Database Server Software	Installs the Database server software, the 32 Bit Database client and performs the instance setup
Database Client Software	Installs the 32Bit Database client software.

2. Select the component to be installed and click **Next**.

If you selected only the **Database Client Software**, then the following mask opens.



Setting	Description
Source 32bit Client	The source of the 32bit Oracle client installation media.
Oracle Base	The ORACLE_BASE directory where you want to install the Oracle client

If you selected only the “Database Server Software”, then the following mask will open.

Oracle **Database** Software section

Setting	Description
Source	The source of the 64Bit Oracle database server installation media.
Source 32bit Client	The source of the 32bit Oracle client installation media.
Oracle Base	The ORACLE_BASE directory where you want to install Oracle or where the instance (e.g. for Oracle 11gR2 this path should look like "C:\oracle") should be created.

Oracle **Database Instance** section

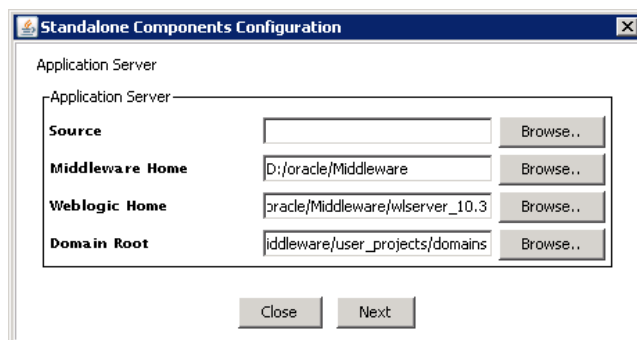
Setting	Description
Oracle Data1-5	<p>The Oracle database files can be stored on up to 5 disks. If you have less than 5 disks put more data files on the same disks. Under the selected directory, the directory "oradata\<SID>" will be created (e.g. you selected "c:\oracle\oradata1" the db files will be placed in "c:\oracle\oradata1\oradata\plm61")</p> <p>Oracle Data1: CONTROL01.CTL, EDB_LOB01.DBF, EDB_TMPIDX01.DBF, EDB01.DBF</p>

	Oracle Data2: CONTROL02.CTL , EDB_IDX01.DBF, EDB_TMP01.DBF Oracle Data3: CONTROL03.CTL, TEMP01.DBF Oracle Data4: UNDOTBS01.DBF Oracle Data5: SYSAUX01.DBF, SYSTEM01.DBF, TOOLS01.DBF, USERS01.DBF
SID	The SID of the instance
Port	The port of the listener (default is 1521)
Database Size	Depending on how big the database dump is, different values can be selected. Further information can be found in the Installation Manual for Oracle 11g on Windows for Agile e6.1.2.
Archive Mode	True: Activates the archive mode of the database (mandatory for production usage). False: Does not activate the archive mode for the database.
Archive Logs	Destination of the archive log files.
Processes	Depending on how many users will connect to the application, an appropriate value has to be applied here. Further information can be found in the Installation Manual for Oracle 11g on Windows for Agile e6.1.2.
SYS Password	The password which should be used for the Oracle SYS user.
Verify Password	The password entered above has to be repeated for verification.
System Password	The password which should be used for the Oracle SYSTEM user.
Verify Password	The password entered above has to be repeated for verification.

3. When the configuration options are defined click **Next**.

The Oracle Database installation starts.

Oracle WebLogic Server



Setting	Description
Source	The source directory which contains the "wls1033_win32.exe" file. This file is the installer of WebLogic.
Middleware Home	The Middleware home where you want to install WebLogic to. (e.g.: D:\oracle\Middleware)
WebLogic Home	The WebLogic Home directory which normally is "inside" your Middleware home (e.g.: D:\oracle\Middleware\wlserver_10.3)
Domain Root	The Middleware home where you want to install WebLogic (e.g.: D:\oracle\Middleware\user_projects\domains)

4. When the component configuration options are defined, click **Next**.

The WebLogic installation is starts.

Finalize the Operating System User Setup

During the windows server installation, the installer will create two operating system users and several services running under these users.

The users will be created and their accounts are disabled by default. The users have to be activated first. They have to change their password and set the password for the service startup.

1. Activate the operating system user with the Microsoft management console
 1. Open the Microsoft management console: Start > Setting > Control Panel > Administrative Tools > Computer Management > System Tools > Local Users and Groups > Users
 2. Open user axalantrt, edbserv.
 3. Deselect "Account is disabled".
 4. Change the properties for the operating system users according to your needs.
 5. Click OK.
2. Change the operating system user password:
 1. You have to change the password for the newly created operating system users "axalantrt" and "edbserv" according to your needs.
3. Set the passwords for the service startup:
 1. Open the Microsoft management console: Start > Settings > Control Panel -> Administrative Tools -> Computer Management -> Services and Applications -> Services
 2. Open the properties and change the "Log On" password as you defined it in the step before for the following services:
 - AgilePLM_DTVDaemon -> running under "axalantrt"
 - AgilePLM_FileService -> running under "edbserv"
 - AgilePLM_JavaDaemon -> running under "axalantrt"

AutoVue Integration Setup

If you want to use the AutoVue integration refer to the PLM612_AutoVueIntegration_Installation

manual.

Batch Installation

Note The Agile e6.1.2 installer is fully batch enabled.

Note Database and WebLogic server installation have to be available. Database must be running. WebLogic software must be available. WebLogic domains will be setup and started during the batch installation.

All installation tasks can be done in batch mode providing all necessary attributes in a property file.

To perform a batch installation, do the following:

1. Prepare the properties file
 1. Copy the “tpl_installation.properties” properties files for your Agile e6.1.2 batch installation from the properties directory <install-media-path>\installer\properties to <install-media-path>\installer\properties\installation.properties.
 2. The file contains default values for a windows batch installation. You have to provide values for all properties with value “<CHANGETHIS>”.
 - plm.j2eeappserver.jadehost: Host name where the JavaDaemon is/will be running.
 - plm.application.j2eehost: The host where WebLogic is running (the WebLogic server host name)
 - plm.application.httphost: The host where the e6 web client can be reached over http (the WebLogic server hostname) .
 - plm.application.mailrelay: If you want to send emails with the business services, define the name of your SMTP mail server. Otherwise use "nn"

Additionally check if the remaining values match your environment and change the values if necessary.

2. Execute the batch script:
 1. Open a cmd shell (see Requirements) and change to the Installer directory ... \installer
 2. Set the JAVA_HOME environment variable
 3. Execute “batchinstall.cmd” in your previously opened cmd shell.

The batch installation will take about 20min. A log file “installation.log” will be created and overwritten each time you will call “batchinstall.cmd” again.

Resulting default e6 environment

Using the default values the following e6 environment was created

Windows Services

Following Windows Services are available and running:

- AgilePLM_DTVDaemon
- AgilePLM_FileService
- AgilePLM_JavaDaemon
- AgilePLM_Portmapper

WebLogic Domains

During the installation 2 domains were created. Each domain consists of an “AdminServer” and an “eSeries-01” server. The “AdminServer” is only for the administration of the domain. The “eSeries-01” servers contain the e6 deployments.

The domains directory is: C:\\Oracle\\Middleware\\user_projects\\domains containing the domains “eSeries_domain” and “eSeries_domain_plmref”.

Ports

E6 AdminClient	8030
Java Daemon	16087
Dtv Daemon	552000610
Fileservice	804257548
“plmref” BusinessService ECI Port	19998
“plmref” WebServices ECI Port	19999
WebLogic eSeries_domain -> AdminServer7101, eSeries-01	7103
WebLogic eSeries_domain_plmref -> AdminServer7105, eSeries-01	7107
WebLogic Node manager	5556
Oracle Database Listener	1521

Links

- Java Client Web Start:
<http://<servername>:7103/Jacc/jacc.jnlp>
- Web Client:
<http://<servername>:7103/AgilePlmWps>
- JVue (Viewer applet):
<http://<servername>:7103/JVue>
- DaemonAdminServlet:
<http://<servername>:7103/DaemonAdminServlet>
- HTTPSsupport:
<http://<servername>:7103/plm-api-axis/services>

- AdminClient:
http://<servername>:8030/AdminClient
- WebLogic Admin Console:
eSeries_domain: http://<servername>:7101/console
eSeries_domain_plmref: http://<servername>:7105/console

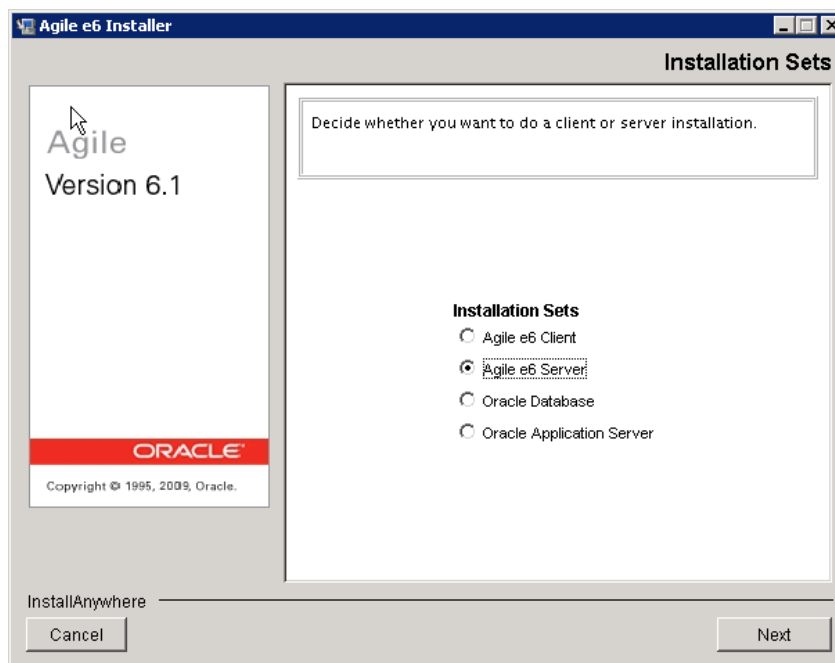
Chapter 4

Uninstall

To uninstall the server:

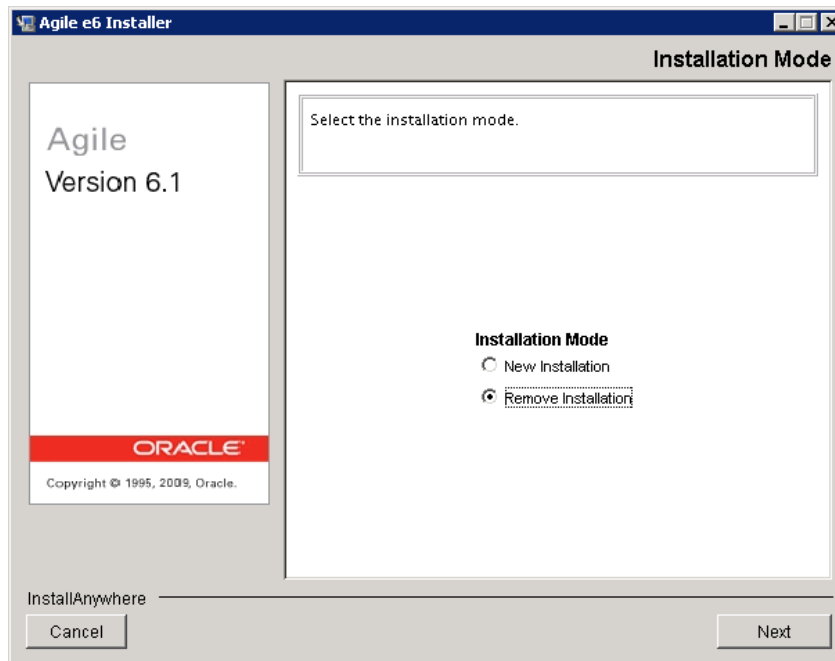
1. Open a **cmd** (command) shell (see the requirements).
2. Change to the installer directory:
`cd <installation-media-path>\installer`
3. Enter the following command:
`.\gui.cmd`

The *Installation Sets* mask opens.



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

The *Installation Mode* mask opens.



5. Select **Remove Installation** and click **Next**.

6. Select the name of the installation to be deleted.

Note All parts of the installation will be removed. The installation destination directory will be renamed. It can be deleted if it is of no use anymore.

Note The installer and the Administration client are not removed.

Note The WebLogic domains created are not removed.

7. To remove the installer and the Administration client, enter the following:

```
cd C:\...\installer\6.1.2\admin\apache-tomcat\bin
removeAgileTomcatService.bat
delete the directory "C:\...\installer\6.1.2"
```

8. To remove the e6 WebLogic domains

1. Stop all running e6 domains following the steps in the Administration Guide.
2. Remove the directories of the e6 domains in
"<MIDDLEWAREHOME>\user_projects\domains".