

Agile

Version e6.1

ORACLE®

Oracle® Agile

Engineering Data Management

Installing Agile e6.1.2.2 on Windows Server

Part No. E27825-01

April 2012

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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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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.

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Introduction

This guide describes how to install Agile e6.1.2.2 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 e6.1.2.2*.
- On database preparation and requirements, refer to the *Installation Manual for Oracle 11gR2 on Windows for Agile e6.1.2.2*.
- On Oracle WebLogic Server preparation and requirements, refer to the *Installation Manual for Oracle WebLogic 11g Rel 1 (10.3.5) on Windows for Agile e6.1.2.2*.

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 11g Release 2(11.2.0.3) 64 Bit
2. Oracle Client 11g Release 2(11.2.0.3) 32 Bit
3. JRockit JDK and Oracle WebLogic Server
4. Agile e6 Server

All of these components can be installed with the Agile e6 installer.

Installation of multiple components in one step is not possible.

- Agile e6 Server (Daemons, Applications) requires a locally installed Oracle Database Client 32 Bit.
- Agile e6 Server (J2EE Components) requires a locally installed Oracle WebLogic Server.

Requirements

Note A complete list of all requirements can be found in the Prerequisites Guide for Agile e6.1.2.2

The cmd shell has always to be started with Run as administrator even if you are doing the installation as the Administrator User.

To open the 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 e6.1.2.2 installer, the installation source file (wls1035_generic.jar) 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 (10.3.5) on Windows for Agile e6.1.2.2

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 it must be reconfigured. The configuration file will only be available after the first startup.

Change the following properties

```
SecureListener=false  
ListenAddress=<your hostname>  
CrashRecoveryEnabled=true
```

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 e6.1.2.2 installer, the installation source has to be unpacked on the hard disk first. The Agile e6.1.2.2 installer supports only the Oracle Database version 11.2.0.3.0.

The Agile e6.1.2.2 installer supports only the 64bit version of the Oracle Database Server and a 32bit Oracle 11.2.0.3 client which is needed by the Agile e6 server.

Further information about the Oracle Database 11gR2 can be found in the Installation Manual for Oracle 11gR2 on Windows for Agile e6.1.2.2.

Further Requirements

- The Oracle WebLogic Server (Nodemanager) and Oracle Database Instance have to be up and running. On the machine where you install Agile e6.1.2.2, the Oracle client/server has to be configured to access the Oracle Database Instance over SQLNet.
- For component based installation, see the Chapter Component Based Installation in the Administration Manual for Agile e6.1.2.2.
- The Agile e6 Server requires an installed Java 6 where the minimum required version is 1.6 Update 20. Java 7 is not supported by the Agile e6 Server.
- Set the JAVA_HOME environment variable to the installed Java Runtime environment. This has to be a **32Bit** Java6 runtime.

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

Enable Trace (optional)

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

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

Note The path to the log files has to exist and the installer directory is writeable by the User who starts the installation.

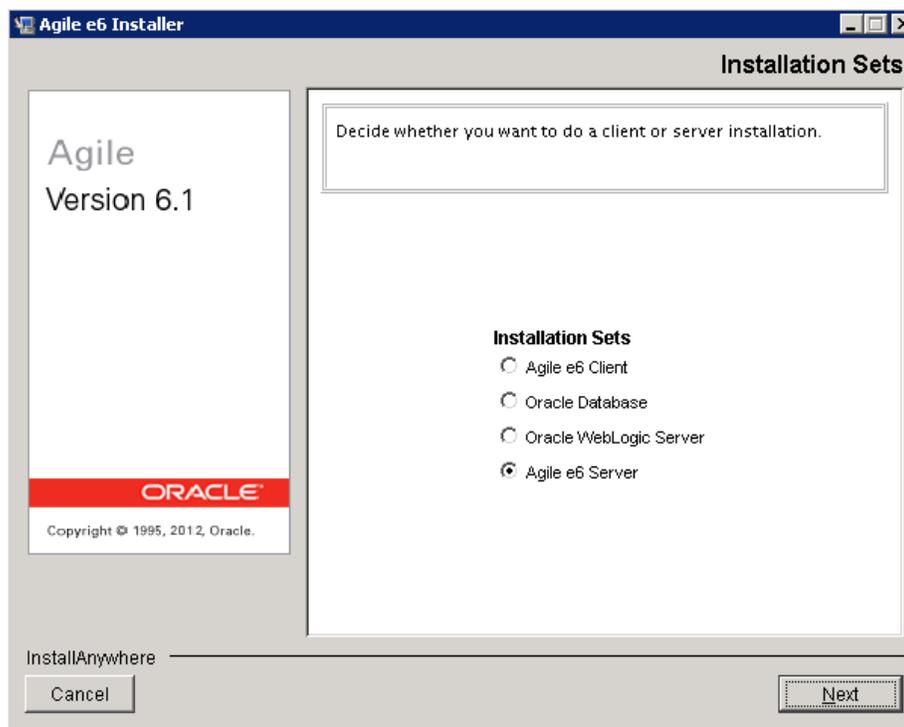
- set plm_ant_loglevel=4
- set plm_ia_stderr=C:\temp\iastderr.log
- set plm_ia_stdout=C:\temp\iastdout.log

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. Execute gui.cmd in the command shell.

The *Installation Sets* screen appears.



Select an Installation Set

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

- Agile e6 Server

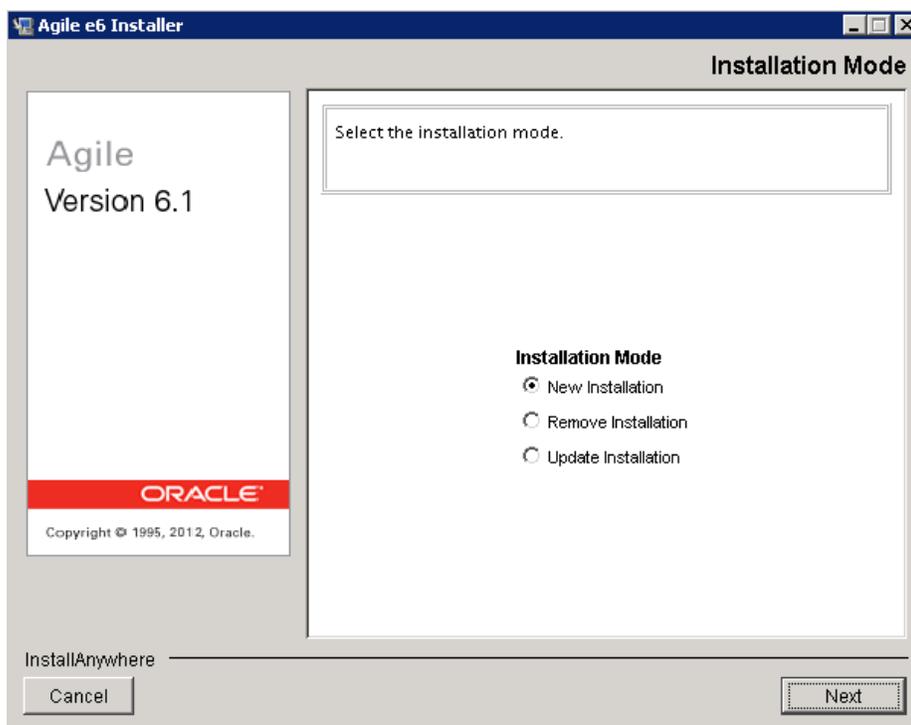
- Oracle Database
- Oracle WebLogic Server

The Agile e6.1.2.2 client installation is described in the *Installation Manual for Agile e6.1.2.2 Clients on Windows*.

Agile e6 Server

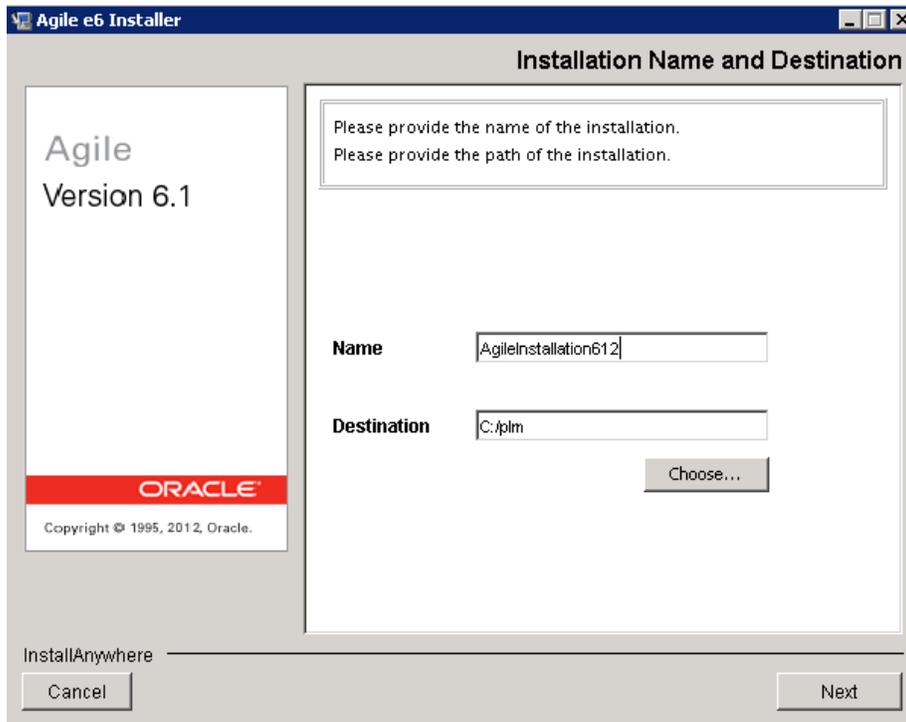
1. Select Agile e6 Server and click Next.

The *Installation Mode* screen appears.



2. Select New Installation and click Next.

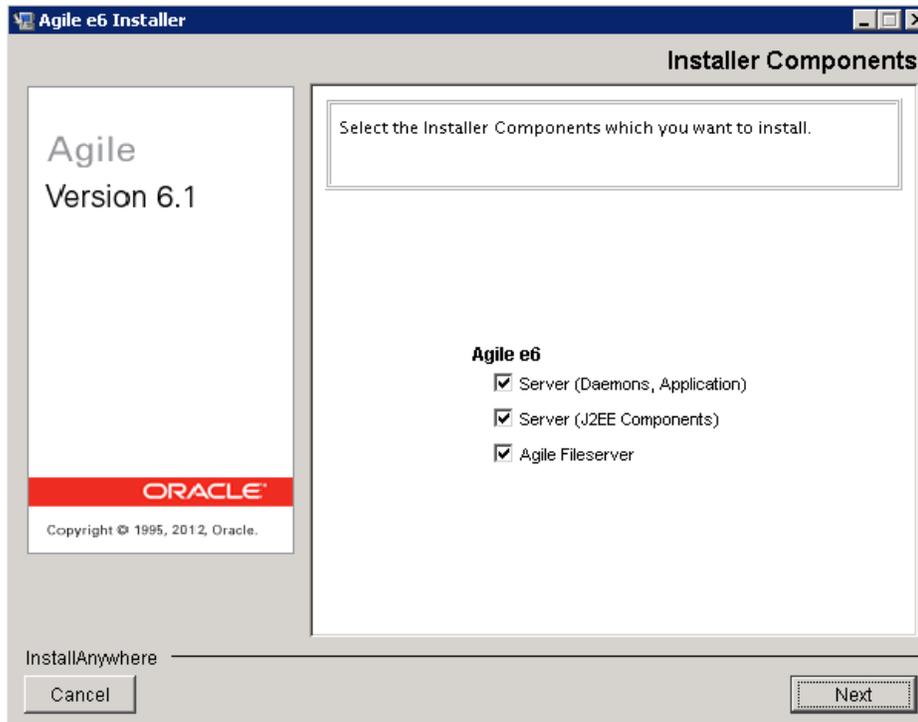
The *Installation Name and Destination* screen appears.



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 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* screen appears.

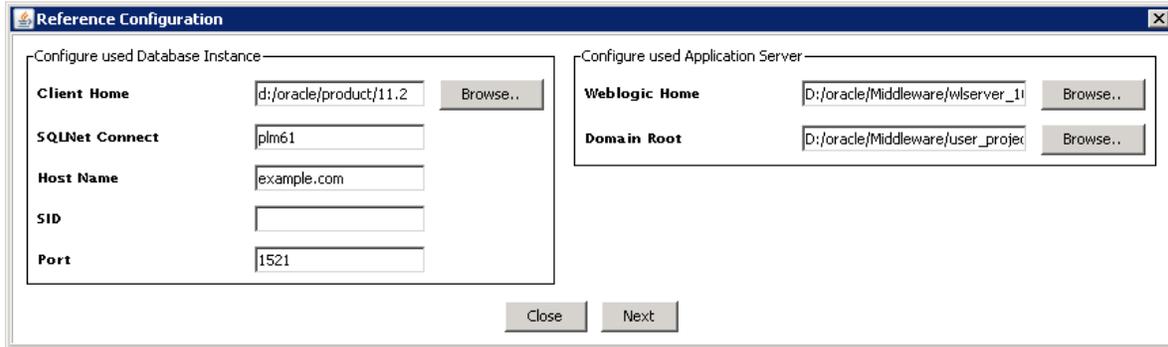


Component	Description
Server (Daemons, Application)	Core Agile e6 server components. Java Daemon, DataView Daemon, initial Application, Portmapper. This requires an Oracle database client 32Bit already installed.
Server (J2EE Components)	J2EE Agile e6 components All components which will be deployed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

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



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

- When the reference configuration options are defined, click Next.

The *Component Configuration* screen appears.

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

Note Some of the values entered in the following screens 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!

The screenshot shows the 'Component Configuration' window for Agile e6. The window title is 'Component Configuration' and it shows a 'Remote Desktop Connection' to 'slc00swt.us.oracle.com'. The configuration is organized into several sections:

- J2EE:** Includes fields for Domain Name (eSeries_domain), WLS Admin Port (7101), WLS Admin SSL Port (7102), Admin PWD Installation..., Verify Password, WLS eSeries Port (7103), WLS eSeries SSL Port (7104), JavaDaemon Host Name (SLC00SWT), JavaDaemon Port (16087), FmsJavaDaemon Host N... (SLC00SWT), and FmsJavaDaemon Port (17087).
- Dtv Daemon:** Includes Service Name (AgilePLM_DTVDaemon) and Port Number (552000610).
- Java Daemon:** Includes Service Name (AgilePLM_JavaDaemon), Port Number (16087), Admin Port Number (16088), and Registration Port Number (16089).
- FMS Java Daemon:** Includes Service Name (AgilePLM_FMS_JavaDaemon) and Port Number (17087).
- Application:** Includes Name (plmref), Database User (plmref), Database Password, Verify Password, Import DB Dump (true), Create DB User (true), SYSTEM Password, Verify Password, J2EE Host (SLC00SWT), Http Host (SLC00SWT), Http Port (7103), ECI Port (19997), WS-ECI Port (19998), WLS Admin Port (7105), WLS Admin SSL Port (7106), Admin PWD Application..., Verify Password, WLS eSeries Port (7107), WLS eSeries SSL Port (7108), EDB Admin UIC (101), and Mail Server.
- Agile e6 File Server:** Includes Service Name (AgilePLM_FileService) and Destination (c:/fms) with a 'Browse...' button.

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

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

WLS Admin SSL Port	The SSL 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 Agile e6 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.
WLS eSeries SSL Port	The SSL listen port for the WebLogic Agile e6 server.
Java Daemon Host Name	The hostname where the Agile e6 Java Daemon is/will be running
Java Daemon Port	The Java daemon port
FmsJavaDaemon Host Name	The hostname where the Agile e6 FMS Java Daemon is/will be running.
FmsJavaDaemon Port	The FMS 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

Note For further information regarding the configuration of the File Server and how to set up vaults, please refer to the Online Help > File Server > Manager Information documentation.

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 Web Services will be configured to "wait" for requests.
WLS Admin Port	The listen port for the WebLogic administration server
WLS Admin SSL Port	The SSL 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 Agile e6 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.
WLS eSeries SSL Port	The SSL listen port for the WebLogic Agile e6 server.
Admin UIC	The UIC of an Agile e6 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".
--	---------------------------------------

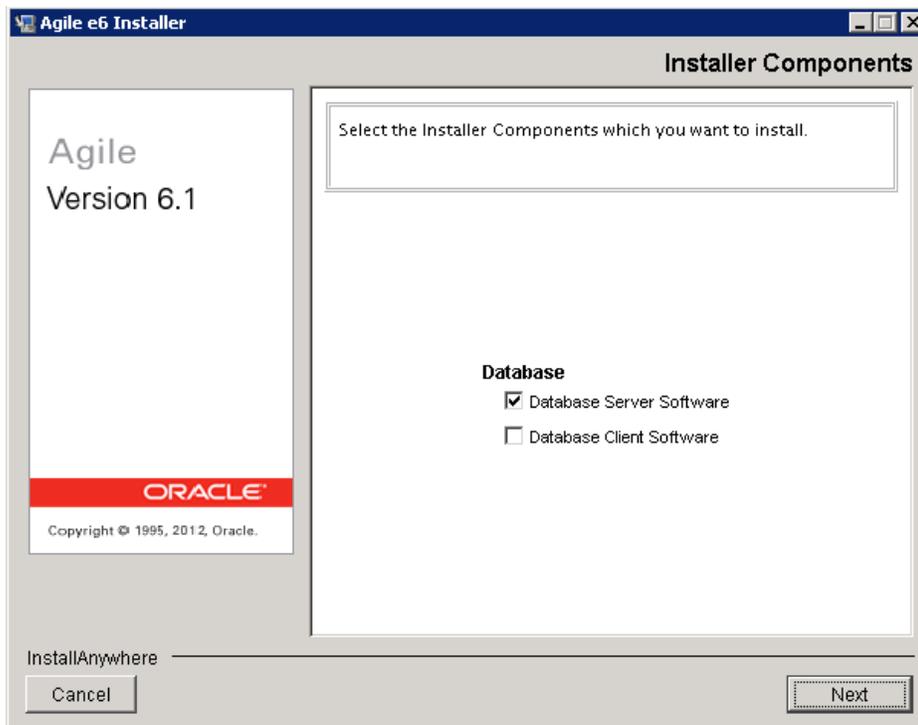
- When the component configuration options are defined click Next.

The installation begins.

Oracle Database

- Select Oracle Database and click Next.

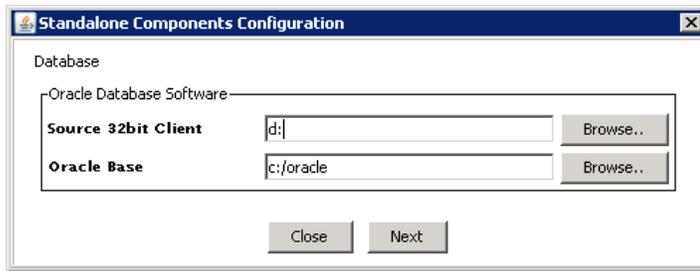
The *Installer Components* screen appears.



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

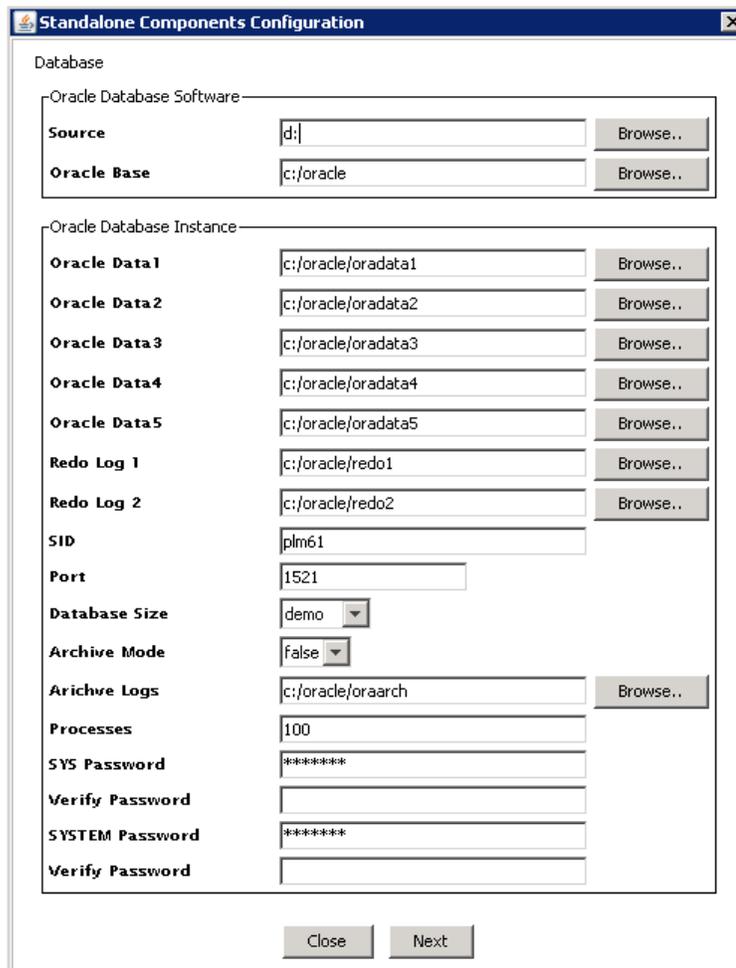
- Select the component to be installed and click Next.

If you selected only the Database Client Software, then the following screen 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 screen appears.



Oracle Database Software section

Setting	Description
Source	The source of the 64Bit Oracle database server 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

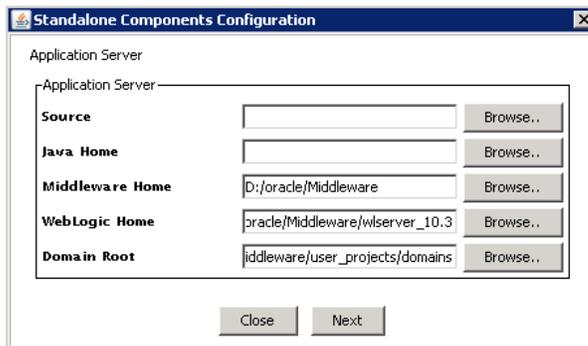
Setting	Description
Oracle Data1-5	<p>The Oracle database files can be stored on up to 5 disks. If you have less than 5 disks put more data files on the same disks. Under the selected directory, the directory "oradata<SID>" will be created (e.g. you selected "c:\oracle\oradata1" the db files will be placed in "c:\oracle\oradata1\oradata\p1m61")</p> <p>Oracle Data1: CONTROL01.CTL, EDB_LOB01.DBF, EDB_TMPIDX01.DBF, EDB01.DBF</p> <p>Oracle Data2: CONTROL02.CTL , EDB_IDX01.DBF, EDB_TMP01.DBF</p> <p>Oracle Data3: CONTROL03.CTL, TEMP01.DBF</p> <p>Oracle Data4: UNDOTBS01.DBF</p> <p>Oracle Data5: SYSAUX01.DBF, SYSTEM01.DBF, TOOLS01.DBF, USERS01.DBF</p>
SID	The SID of the instance
Port	The port of the listener (default is 1521)
Database Size	<p>Depending on how big the database dump is, different values can be selected.</p> <p>Further information can be found in the Installation Manual for Oracle 11g on Windows for Agile e6.1.2.2</p>
Archive Mode	<p>True: Activates the archive mode of the database (mandatory for production usage).</p> <p>False: Does not activate the archive mode for the database.</p>
Archive Logs	Destination of the archive log files.
Processes	<p>Depending on how many users will connect to the application, an appropriate value has to be applied here.</p> <p>Further information can be found in the Installation Manual for Oracle 11g on Windows for Agile e6.1.2.2</p>
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.

- When the configuration options are defined click Next.

The Oracle Database installation starts.

Oracle WebLogic Server 10.3.5



Setting	Description
Source	The source directory which contains the "wls1035_generic.jar" file. This file is the installer of WebLogic.
Java Home	JRockit Java home directory which will be used for the installation and runtime environment of the WebLogic server
Middleware Home	The Middleware home where you want to install WebLogic (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)

- When the component configuration options are defined, click Next.

The WebLogic installation starts.

Note The JRockit Java has to be installed before starting the Oracle WebLogic Server installation.

Finalizing the Operating System User Setup

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

The users are created and their accounts are disabled by default. The users are required to be activated first. They are required 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_Filesevice > running under edbserv
 - AgilePLM_JavaDaemon > running under axalantrt

AutoVue Integration Setup

If you want to use the AutoVue integration, refer to the *Agile e6122 AutoVue Integration and Installation manual*.

Batch Installation

Note The Agile e6.1.2.2 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:

1. Prepare the properties file.
2. Copy the `tpl_installation.properties` properties files for your Agile e6.1.2.2 batch installation from the properties directory `<install-media-path>\installer\properties` to `<install-media-path>\installer\properties\installation.properties`.

This file contains the default values for a windows batch installation

3. Enter the values for all properties with value `<CHANGETHIS>`.
 - `plm.databasedefinition.dbhost`: The hostname of the Oracle 11gR2 Database server.
 - `plm.j2eeappserver.jadehost`: Host name where the JavaDaemon is/will be running.
 - `plm.j2eeappserver.fmsjadehost`: Host name where the FMS 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 Agile 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.

4. Execute the batch script:
 - Open a cmd shell (see Requirements) and change to the Installer directory
... \installer
 - Set the `JAVA_HOME` environment variable
 - Execute `batchinstall.cmd` in your previously opened cmd shell.

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

The Resulting Default Agile e6 Environments

Using the default values the following Agile e6 environments are created:

Windows Services

Following Windows Services are available and running:

- AgilePLM_DTVDaemon
- AgilePLM_Filesevice
- AgilePLM_JavaDaemon
- AgilePLM_Portmapper

WebLogic Domains

During the installation 2 domains were created. Each domain consists of an AdminServer and an Agile eSeries-01 server.

- The AdminServer is only for the administration of the domain.
- The Agile eSeries-01 servers contain the Agile e6 deployments.

The domains directory is `<MIDDLEWARE_HOME>\user_projects\domains`. It contains the domains `eSeries_domain` and `eSeries_domain_plmref`.

Ports

E6 AdminClient	8030
Java Daemon	16087
Dtv Daemon	552000610
Filesevice	804257548
"plmref" BusinessService ECI Port	19998
"plmref" WebServices ECI Port	19999
WebLogic eSeries_domain -> AdminServer	7101
WebLogic eSeries_domain -> AdminServer, SSL	7102

WebLogic eSeries_domain ->eSeries-01	7103
WebLogic eSeries_domain ->eSeries-01, SSL	7104
WebLogic eSeries_domain_plmref -> AdminServer	7105
WebLogic eSeries_domain_plmref -> AdminServer, SSL	7106
WebLogic eSeries_domain_plmref -> eSeries-01	7107
WebLogic eSeries_domain_plmref -> eSeries-01, SSL	7108
WebLogic Node manager	5559
Oracle Database Listener	1521

Links

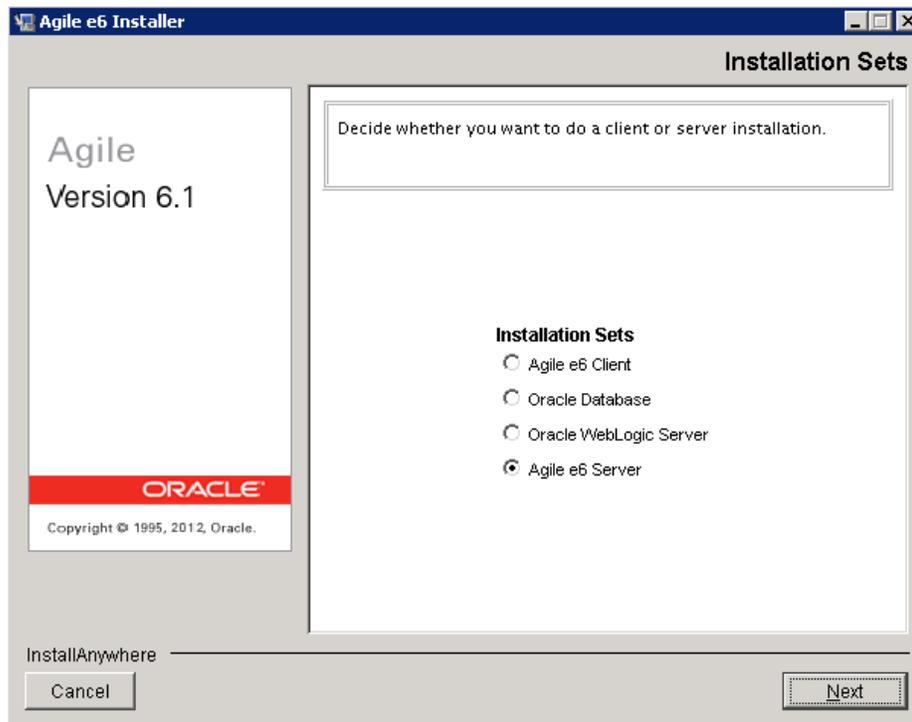
- Java Client Web Start: <http://<servername>:7103/Jacc/jacc.jnlp>
- Web Client: <http://<servername>:7103/AgilePlmWps>
- JVue (Viewer applet): <http://<servername>:7103/JVue>
- DaemonAdminServlet: <http://<servername>:7103/DaemonAdminServlet>
- HTTPSupport: <http://<servername>:7103/plm-api-axis/services>
- AdminClient: <http://<servername>:8030/AdminClient>
- WebLogic Admin Console:
 - eSeries_domain: <http://<servername>:7101/console>
 - eSeries_domain_plmref: <http://<servername>:7105/console>

Uninstalling the Agile e6 Server

To uninstall the server:

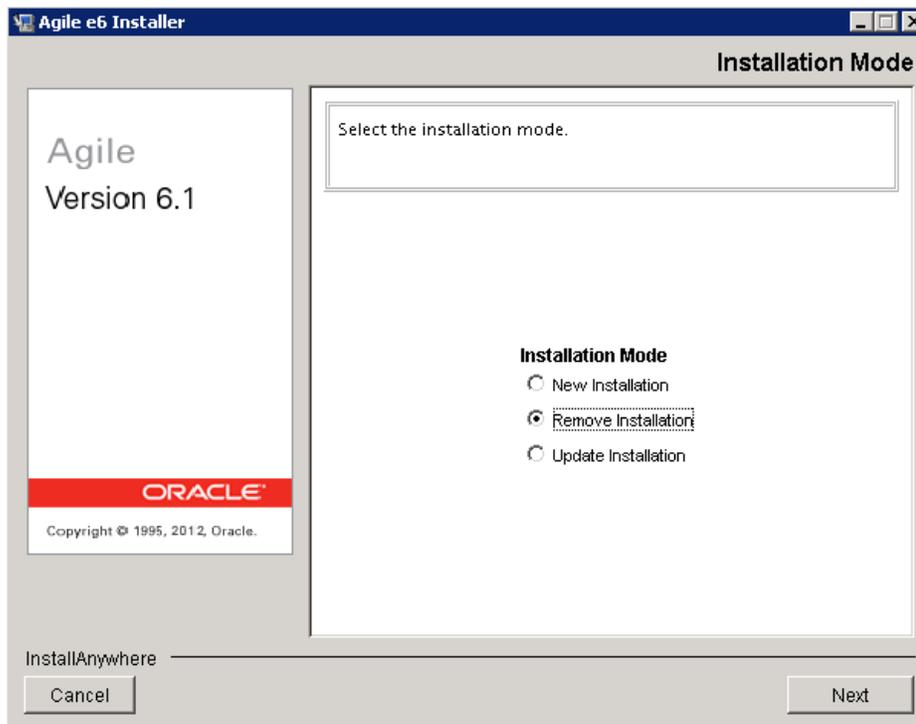
1. Open a cmd (command) shell (see the requirements).
2. Change to the installer directory:
`cd <installation-media-path>\installer`
3. Enter the following command:
`.\gui.cmd`

The *Installation Sets* screen appears.



4. Select Agile e6 Server and click Next.

The Installation Mode screen appears.



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 Agile e6 WebLogic domains
 1. Stop all running Agile e6 domains following the steps given in the Administration Guide.
 2. Remove the directories of the Agile e6 domains in `<MIDDLEWARE_HOME>\user_projects\domains`.