

Agile

Version e6.1

ORACLE

# **Oracle® Agile**

## **Engineering Data Management**

Installing Agile e6.1.2.2 on UNIX Server

Part No. E27826-01

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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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**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>).

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

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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](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

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# Introduction

This guide describes how to install the Agile e6.1.2.2 Server on UNIX.

## 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 document *Installation Manual for Oracle 11gR2 on Unix for Agile e6.1.2.2*.
- On the Oracle WebLogic Server preparation and requirements, refer to the *Installation Manual for Oracle WebLogic 11g Rel 1 (10.3.5) on Unix for Agile e6.1.2.2*.
- On how to use the Java Client with WebStart, refer to the *Administration Manual for Agile e6.1.2.2*.



# Preparing the Installation

Before installing Agile e6.1.2.2 for UNIX, perform the following steps:

1. Review the hardware and software requirements for your platform.
2. Follow the instructions in this chapter to prepare the installation.

## 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.

Only the Oracle WebLogic Server and the Agile e6 Server 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.

---

**Note** JRockit is not available on all supported Operating Systems. It is not available on HP-UX and AIX. There you have to use the native Java.

## Requirements

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

## 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 Unix for Agile e6.1.2.2*.

---

**Note** Installing the WebLogic server and the Agile e6 server on the same server machine, requires special attention:

If the OS user for the WebLogic installation should be different from the OS user for the Agile e6 native server installation, a component based installation is required. For further information please refer to the chapter – Component Based Installation in the Administration Manual for Agile e6.1.2.2.

After the installation of the Oracle WebLogic server, the nodemanager must be configured.

### To start the nodemanager:

1. Execute:

```
cd <WL_HOME>/server/bin/  
./startNodeManager.sh
```

2. After the first startup of the nodemanager, it must be reconfigured.

The configuration files will only be available after the first startup.

3. Change the following properties in the `<WL_HOME>/common/nodemanager/nodemanager.properties` file.

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

4. After the changes, restart the nodemanager.

## Oracle Database 11gR2

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

## Further Requirements

- The Oracle WebLogic Server 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 e6 Server.

- Set the JAVA\_HOME environment variable to the installed Java Runtime environment. This has to be a 32Bit Java6 runtime.

1. Log in as installation user.
2. echo \$JAVA\_HOME
3. 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/loval/java/jre6
```

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

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

This should create the following output:

```
java version "1.6.0_20"  
Java(TM) SE Runtime Environment (build 1.6.0_20-b02)  
Java HotSpot(TM) Server VM (build 16.3-b01, mixed mode)
```

The DISPLAY variable is set and the X11 window can be opened.

---

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

### Enabling Trace (optional)

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

---

**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.

```
setenv plm_ant_loglevel 4  
setenv plm_ia_stderr $HOME/tmp/iastderr.log  
setenv plm_ia_stdout $HOME/tmp/iastdout.log
```

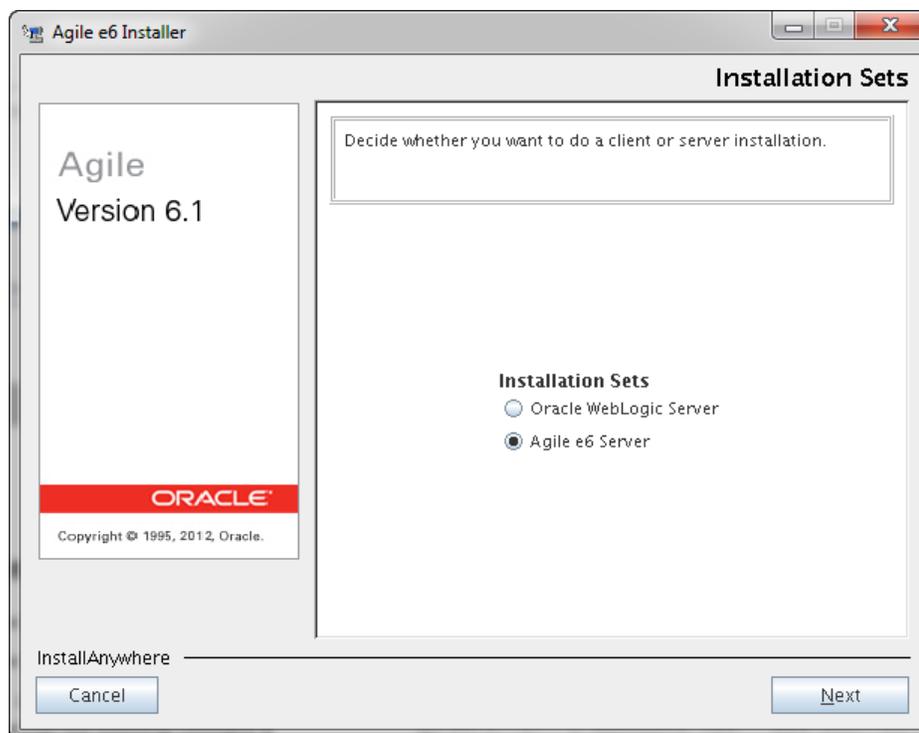


# Installing with the Installer

## Installing with GUI

1. Extract the downloaded installation file.
2. Change to the Installer directory `.../installer`.  
`cd <installation-media-path>/installer.`
3. Enter the following command:  
`./gui.csh`

The *Installation Sets* mask appears.

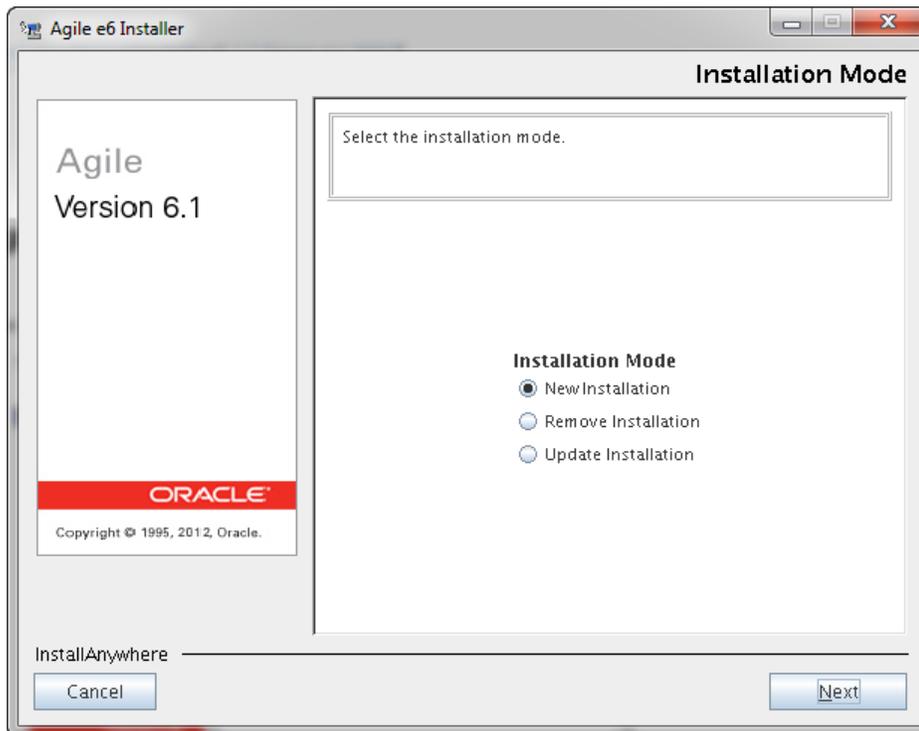


Depending on the selected installation, see the corresponding sections in this chapter for further instructions and information.

## Agile e6 Server

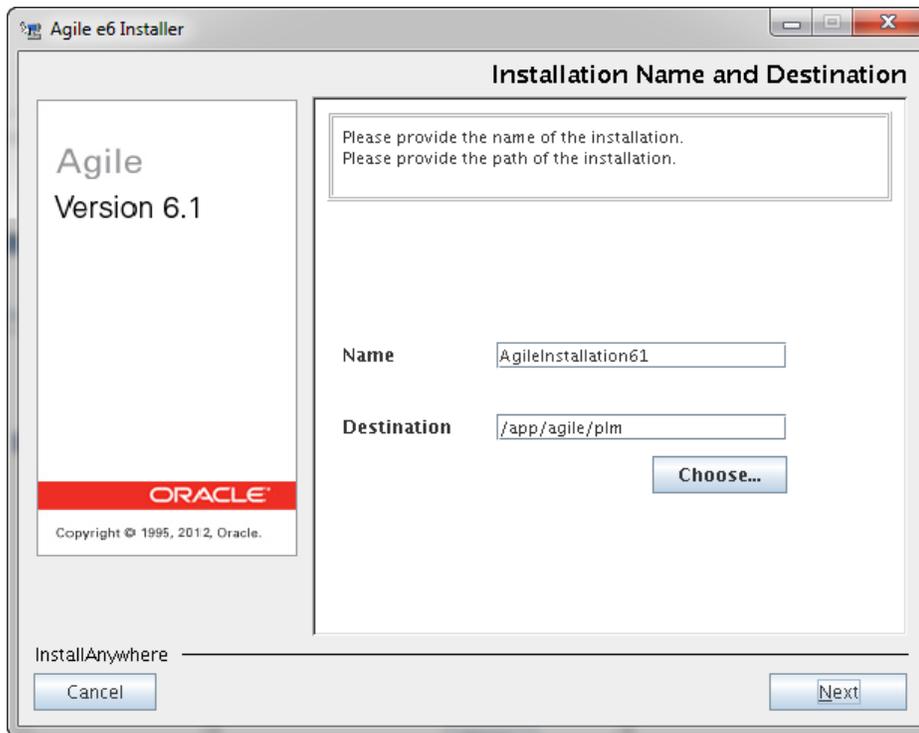
1. Select Agile e6 Server and click Next.

The *Installation Mode* screen appears.



2. Select New Installation and click Next.

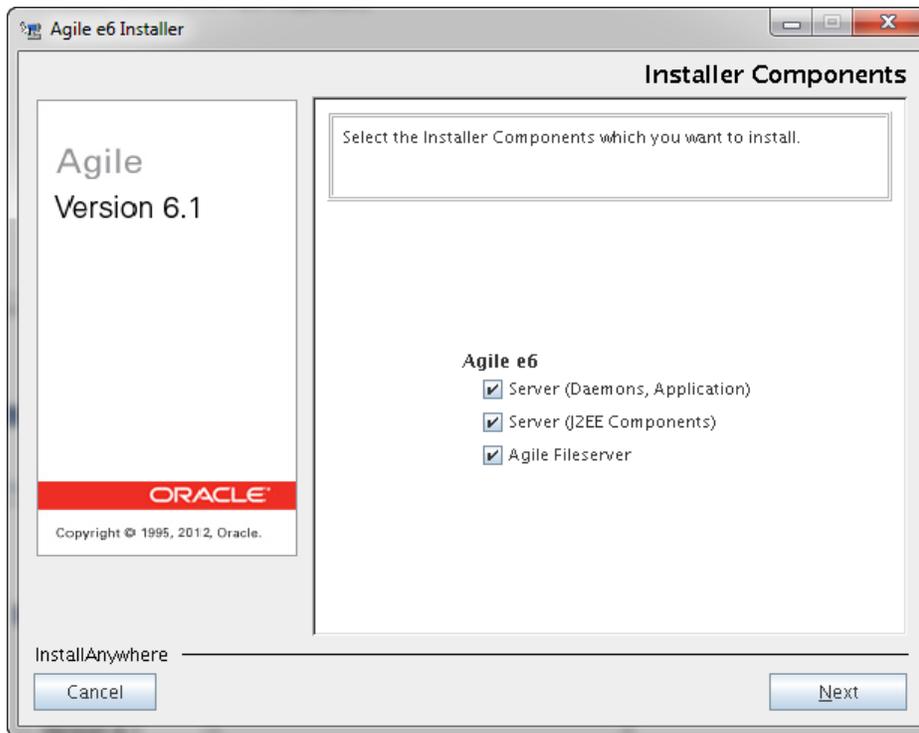
The *Installation Name and Destination* screen appears.



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.



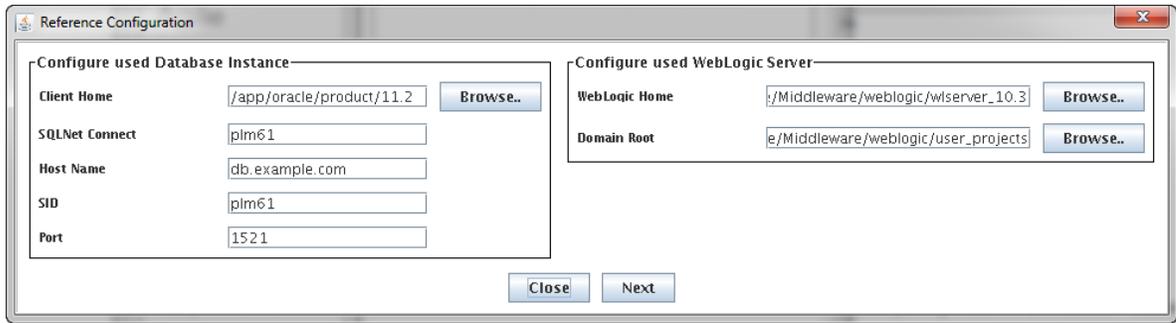
Component	Description
Server (Daemons, Application)	Core e6 server components. Java Daemon, DataView Daemon, initial application, Portmapper. <b>Note</b> This requires an Oracle database client 32Bit already installed.
Server (J2EE Components)	J2EE e6 components All components which will be deployed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

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.



5. Configure used Database Instance section.

Setting	Description
Client Home	The ORACLE_HOME path of your Oracle installation.
SQLNET Connect	The connect string defined in your \$ORACLE_HOME/NETWORK/ADMIN/tnsnames.ora file. <b>Note</b> This has to be configured manually in advance.
Host Name	The hostname 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.

6. Configure used WebLogic Server section.

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

7. When the 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 screen 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!

**Agile e6 J2EE section**

Setting	Description
DomainName	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 Domain	The password of the WebLogic user used for the installation domain.
Verify Password	The password entered above has to be repeated for the verification.

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

***Agile e6 DtvDaemon section***

Setting	Description
Port Number	The port number the Daemon should use.

***Agile e6 JavaDaemon section***

Setting	Description
Port Number	The port number the Daemon should use.
Admin Port Number	The port number reserved for administrative requests.
Registration Port Number	The port number reserved for registration requests.

***Agile e6 File Server section***

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

***Agile e6 Application section***

Setting	Description
Name	The name of the default application you want to create (former axalantORIGIN)

Setting	Description
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 the 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 DB user to be created automatically for the above defined database user.
SYSTEM Password	The password for the system user of the database has to be applied here if the option "Create DB User" is set to "true".
Verify Password	The password entered above has to be repeated for the verification.
J2EE Host	The host where WebLogic is running (the WebLogic server host name).
Http Host	The host where the Web Client is running (the WebLogic server host name).
Http Port	The port where the Web Client is running (the HTTP(s) port of your 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 Application	The password of the WebLogic user used for the application domain
Verify Password	The password entered above has to be repeated for the verification.
WLS eSeries Port	The listen port for the WebLogic eSeries server. The installer will create a separately managed server with name "eSeries-01" in addition to the administration server. This server will contain the installation specific deployments.
WLS eSeries SSL Port	TheSSL listen port for the WebLogic eSeries 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".

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

The installation starts.

After the installation, all the required processes should be running except the AdminClient service.

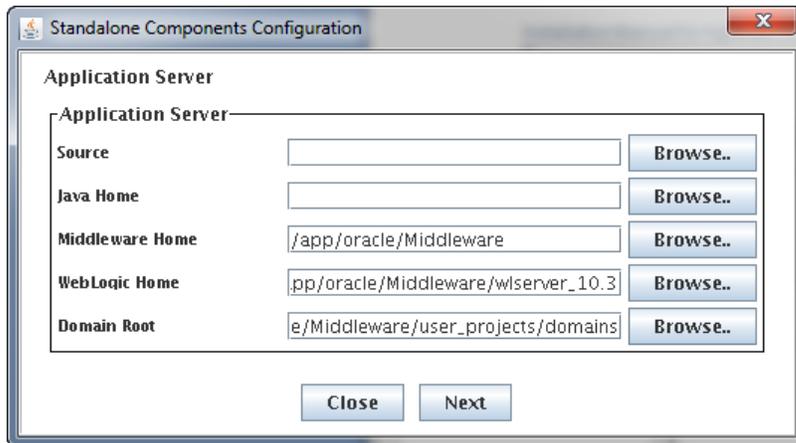
To start the AdminClient running in Apache Tomcat, enter the following:

```
cd $HOME/agile/installer/6.1.2/admin/apache-tomcat/bin
./startup.sh
```

This will start the standard Apache Tomcat on the port 8030 (HTTP) with the AdminClient application deployed inside.

**Note** If you want a secure environment with HTTPS you have to configure this manually.

## 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	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 is starts.

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

---

**Note** Please refer to the Installation Manual for Oracle WebLogic 11g Rel 1 (10.3.5) on Unix for Agile e6.1.2.2 for more information which Java has to be installed.

## Batch Installation

---

**Note** The Agile e6.1.2.2 Installer is batch enabled.

**Note** The database and WebLogic server installation have to be available. The database must be running. The WebLogic software must be available. The WebLogic domains will be set up 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`.

The file contains default values for a batch installation.

3. Enter the values for all properties with value `<CHANGETHIS>`.
  - `plm.inst.root`: The destination directory for the e6 installation.
  - `plm.databaseconnection.client_home`: The path to the existing 32bit Oracle 11gR2 Database client.
  - `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 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".

- `plm.applicationserverdefinition.mw_home`: The home directory under which the Middleware software is installed. The WebLogic home directory is normally below this directory.
- `plm.applicationserverdefinition.wl_home`: The home directory where WebLogic is installed.
- `plm.applicationserverdefinition.domain_root`: The root directory where the e6 WebLogic domains should be created.
- `plm.wls.java.executable.name`: The default is the Windows name. The value for UNIX is commented out below it. Reverse the comments for the two lines.

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

#### 4. Execute the batch script:

1. Open a c shell and change to the installer directory.

```
cd <install-media-path>/installer
```

2. Set the JAVA\_HOME environment variable

```
setenv JAVA_HOME /usr/local/java/jdk6
```

3. Execute the following command in your previously opened c shell:

```
./batchinstall.csh ./properties/installation.properties |& tee  
installation.log
```

The batch installation takes about 20min. A log file, `installation.log`, is created and overwritten each time you call `batchinstall.csh`.

## The Resulting Default Agile e6 Environments

Using the default values, the following Agile e6 environments are created.

### WebLogic Domains

During the installation 2 domains are 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 server contains the e6 deployments.

The domains directory (`plm.applicationserverdefinition.domain_root`) contains 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 -> 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>

## Installing the Fileserver

---

**Note** The following example works when the username is agile.

1. Create the fileserver directory, for example, `/app/agile/edbserve` as a root user.
2. Change the owner of this directory to your fileserver user.
3. Log in as the fileserver user.
4. Copy `$ep_root/axalant/bin/<EP_MACH>/fms*` and `$ep_root/axalant/ini/fileserver.cfg` to your created fileserver directory.

---

**Note** Further information about the file `fileserver.cfg` can be found in the File Server documentation (Manager Information > File Server Management Functions > Create Vault).

5. Start the fileserver

```
nohup ./fms_srv -verbose -u $USER &
```



## Verifying the Installation

1. After the Agile e6 application installation, the processes (daemons) listed below should be running on the server machine.

```
ps -ef | grep <installation name>
```

The exact values depend on the installation, but in general the following processes have to be available:

- DataviewDaemon
  - Javawrapper for JavaDaemon
  - JavaDaemon
  - Javawrapper for FMS JavaDaemon
  - FMS JavaDaemon
  - Javawrapper for Apache Tomcat
  - Apache Tomcat
2. Start the processes manually.

---

**Note** The database and application server processes should be running already.

If you want to start the e6 processes manually, execute the following commands:

- JavaDaemon:

```
cd $ep_root/axalant/scripts
./jade start
```
- FMS JavaDaemon:

```
cd $ep_root/axalant/scripts
./fms_jade start
```
- DataviewDaemon:

```
cd $ep_root/axalant/scripts
./dtv_dmn.sh
```

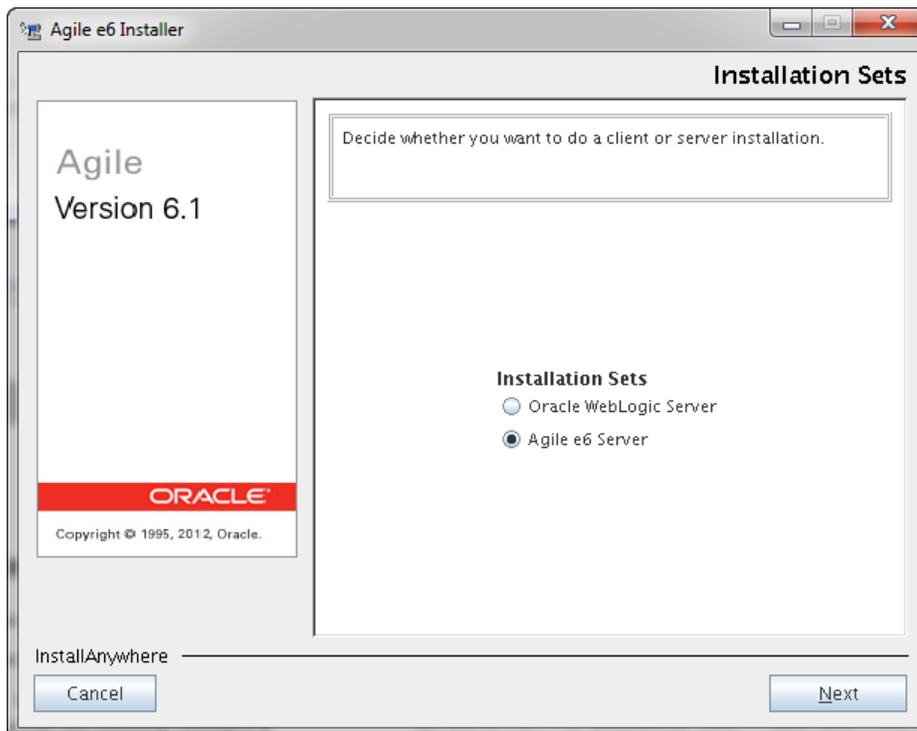


# Uninstalling the Agile e6 Server

## To uninstall the server:

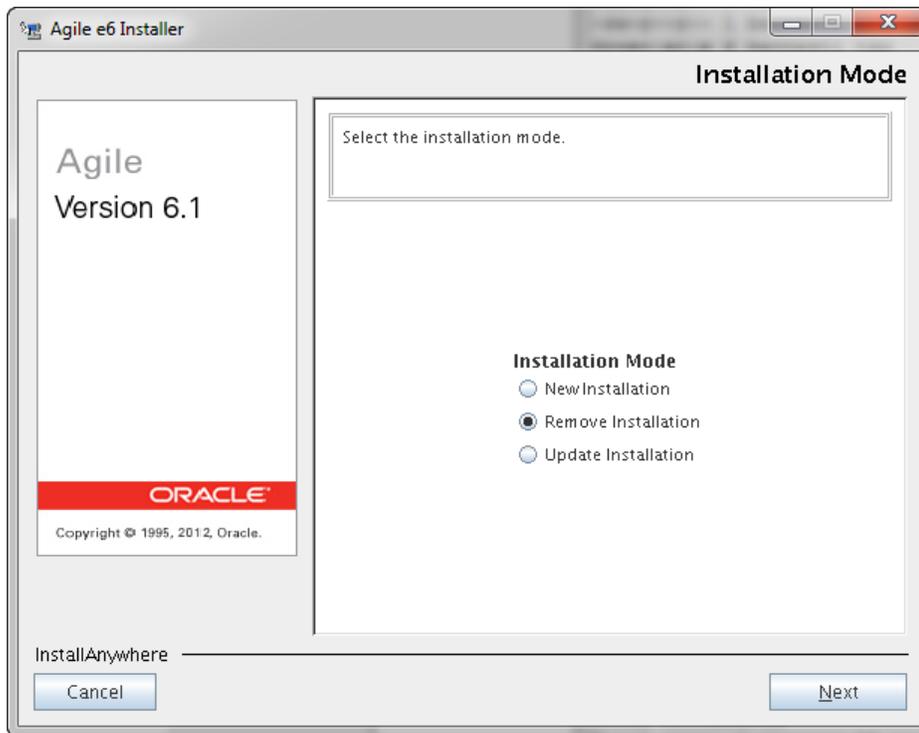
1. Open a c-shell.
2. Change to the Installer directory:  
`cd <installation-media-path>/installer`
3. Enter the following command:  
`./gui.csh`

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 are removed and the installation destination directory is renamed. It can be deleted if it is of no use anymore.

**Note** The installer and the Administration client are not removed.

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

```
su - <your e61 installation user>  
cd agile/installer/6.1.2/admin/apache-tomcat/bin  
./shutdown
```

---

**Note** All the installer information is removed after this task.

If the Agile e6.1.2.2 installation is removed from the server, the directory can be deleted. All components of the installation are removed.

8. The WebLogic domains created during installation must be deleted manually. Currently there is no standard way provided to delete WebLogic domains.

Also all domains for applications created after installation must be removed manually.