

Agile

Version e6.1

ORACLE®

Oracle® Agile Engineering Data Management

Installation Manual for Agile e6.1.2 Server on
UNIX

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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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Introduction

This guide describes how to install the Agile e6.1.2 Java 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.

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

For information on the 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.

Please read the Administration Server Manual for Agile e6.1.2 for more information about how to use the Java Client with WebStart.

Chapter 2

Preparing the Installation

Before installing the Java Server 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.

Requirements

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

Oracle WebLogic Server

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

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

To start the nodemanager:

1. Execute:

```
cd <WL_HOME>/server/bin/  
sh startNodeManager.sh
```
2. After the first startup of the nodemanager, reconfigure the nodemanager.
The configuration files are available after the first startup.
3. Change the following properties in the file
<WL_HOME>/common/nodemanager/nodemanager.properties.

```
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*.

Additional Requirements

- The minimum Java 6 Version is 1.6, update 20.

The following have to be set:

1. The Oracle WebLogic Server and Oracle Database Instance have to be up and running. On the machine where you install Agile e6.1.2, the Oracle client/server has to be configured to access the Oracle Database Instance over SQLNet.

For split installation, see the *Chapter “Split Installation” in the Administration Manual for Agile e6.1.2*.

2. Log in as installation user.
3. Point the JAVA_HOME environment variable to the installed Java Runtime Environment (JRE). This has to be a 32Bit Java 6 runtime.

```
echo $JAVA_HOME
```

4. 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
```

5. 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)

Note Please be aware that the tracing output may contain your passwords that you apply during the installation.

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

```
setenv plm_ant_loglevel 4
```

```
setenv plm_ia_stderr $HOME/tmp/iastderr.log
```

```
setenv plm_ia_stdout $HOME/tmp/iastdout.log
```

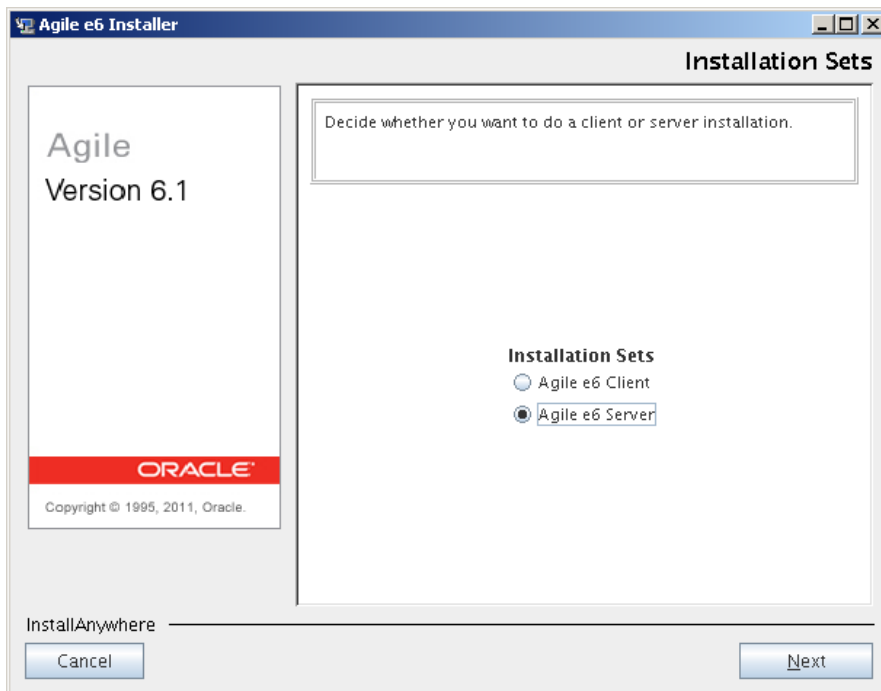

Chapter 3

Installing the e6 Server

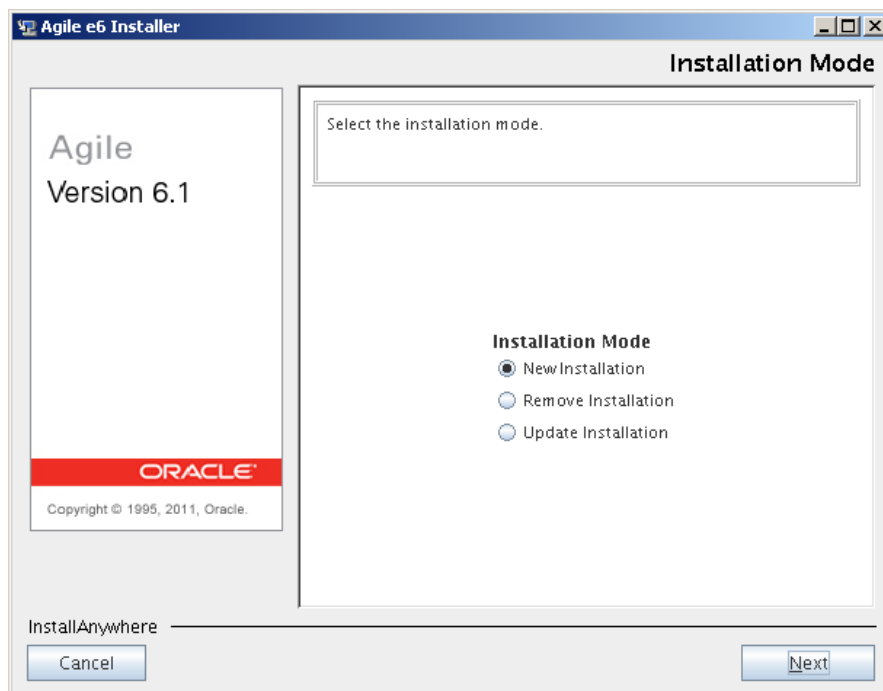
Installing with GUI

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 opens.

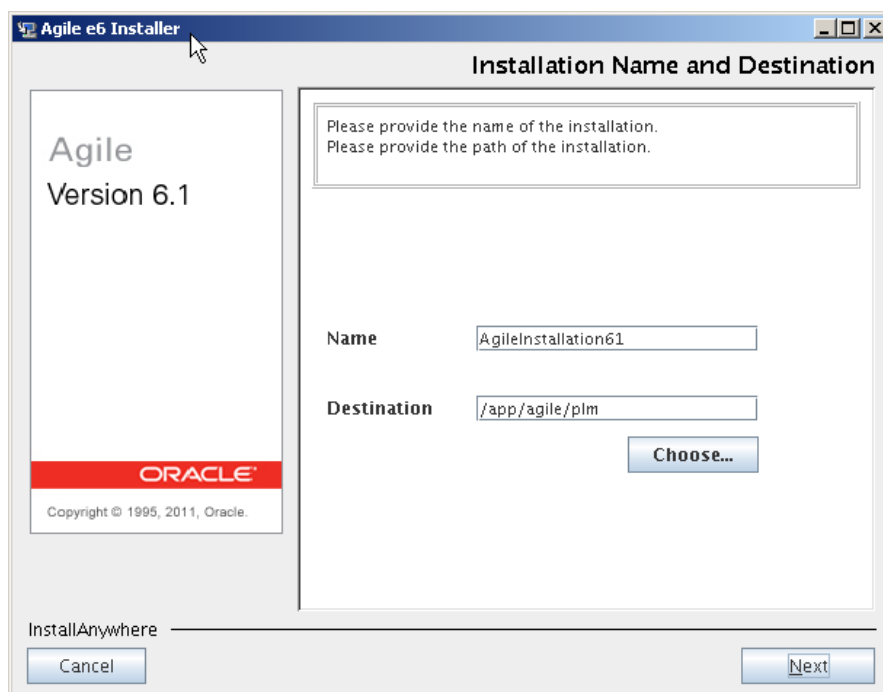


4. Select **Agile e6 Server** and click **Next**.
The *Installation Mode* mask opens.



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

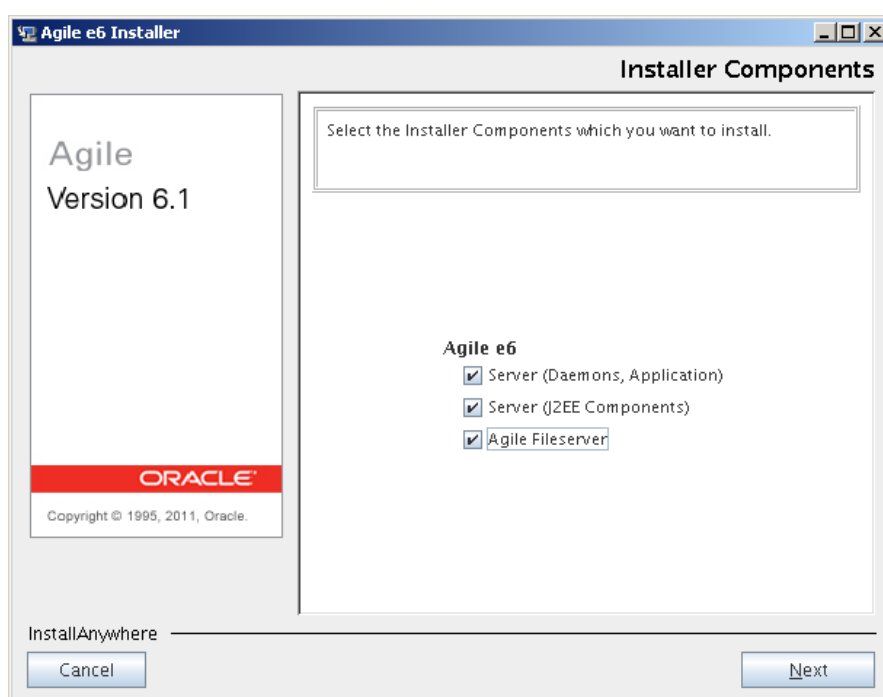
The *Installation Name and Destination* mask opens.



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 is going to be installed. This has to be a non existing path.

6. Enter the installation name and the installation destination and click **Next**.

The *Installer Components* mask opens.



Component	Description
Server (Daemons, Application)	Core e6 server components. Java Daemon, DataView Daemon, initial application, Portmapper. Note 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.

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

The *Reference Configuration* mask opens.

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

8. Configure the existing (remote) Database Instance.

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. Note 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.

9. Configure the existing (remote) WebLogic Application Server.

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.

10. When the configuration options are defined, click **Next**.

The *Component Configuration* mask opens.

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

Note Some of the values entered in the following mask 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 Do_

Verify Pass word

WLS eSeries Port: 7103

JavaDaemon Host Name: www.example.com

JavaDaemon Port: 16087

Fms JavaDaemon Host Name: www.example.com

Fms JavaDaemon Port: 17087

Application

Name: plmref

Database User: plmref

Database Pass word

Verify Pass word

Import DB Dump: true

Create DB User: true

SYSTEM Pass word

Verify Pass word

J2EE Host: www.example.com

Http Host: www.example.com

Http Port: 7103

ECI Port: 19997

WS-ECI Port: 19998

PLM User

PLM Pass word

Verify Pass word

WLS Admin Port: 7105

Admin PWD Application Do_

Verify Pass word

WLS eSeries Port: 7107

EDB Admin UIC: 101

Mail Server: mail.example.com

Agile e6

Dtv Daemon

Port Number: 552000610

Java Daemon

Port Number: 16087

Admin Port Number: 16088

Registration Port Number: 16089

FMS Java Daemon

Port Number: 17087

Close Next

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
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.
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.

Setting	Description
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 Application

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 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.
PLM User	WebServices default batch PLM user (could be configured later)
PLM Password	WebServices default batch PLM users password (could be configured later)
Verify Password	The password entered above has to be repeated for the verification (could be configured later)
WLS Admin Port	The listen port for the WebLogic administration server
Admin PWD Application Domain	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.

Setting	Description
EDB Admin UIC	The UIC of the EDB user who should get the admin mails
Mailserver	If you want to send emails with the business services, define the name of your SMTP mailserver.

Agile e6 DtvDaemon

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

Agile e6 JavaDaemon

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 FMS JavaDaemon

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

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

The installation starts.

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

12. 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.

Batch Installation

Note The Agile e6.1.2 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.
 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.
The file contains default values for a batch installation.
 2. 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.Additionally check if the remaining values match your environment and change the values if necessary.
2. 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 “./batchinstall.csh ./properties/installation.properties” in your previously opened c shell.

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

Resulting default e6 environment

Using the default values the following e6 environment was 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, eSeries-01:7103
- WebLogic eSeries_domain_plmref -> AdminServer: 7105, eSeries-01:7107
- 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>

Chapter 4

Installing the Fileserver

Note The following example works when the username is “agile”.

1. Create the fileserver directory, e.g. /app/agile/edbserve as root user.
2. Change the owner of this directory to your fileserver user.
3. Log in as the fileserver user.
4. Copy “\$sep_root/axalant/bin/<EP_MACH>/fms*” and “\$sep_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 &
```


Chapter 5

Verifying the Installation

1. After the Agile e6.1.2 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 e6.1.2 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
```
- PresentationService:

```
cd $ep_root/ext/apache-tomcat  
./start_web.sh start
```

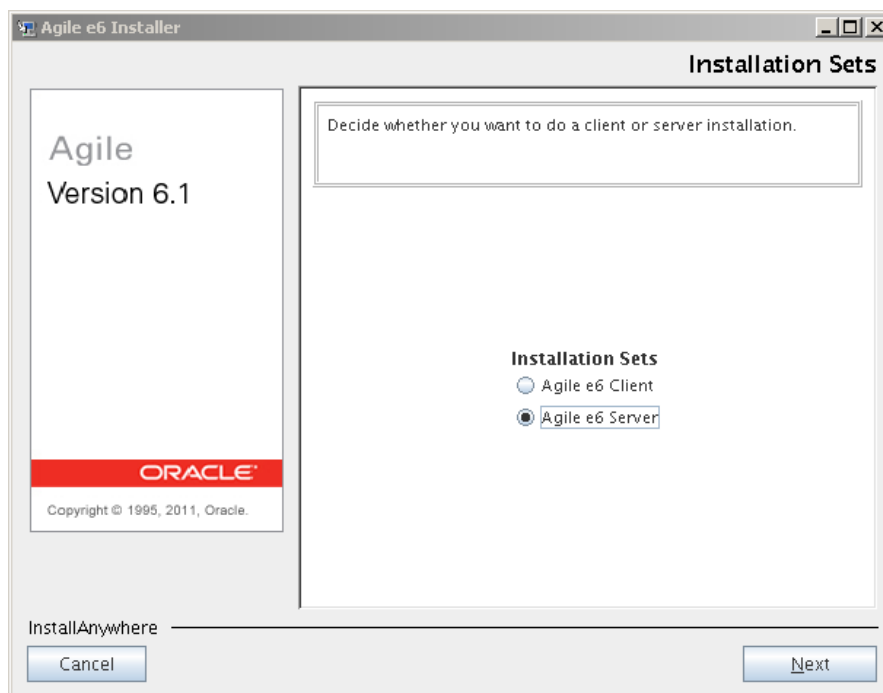

Chapter 6

Uninstalling the Server

To uninstall the server, perform the following steps:

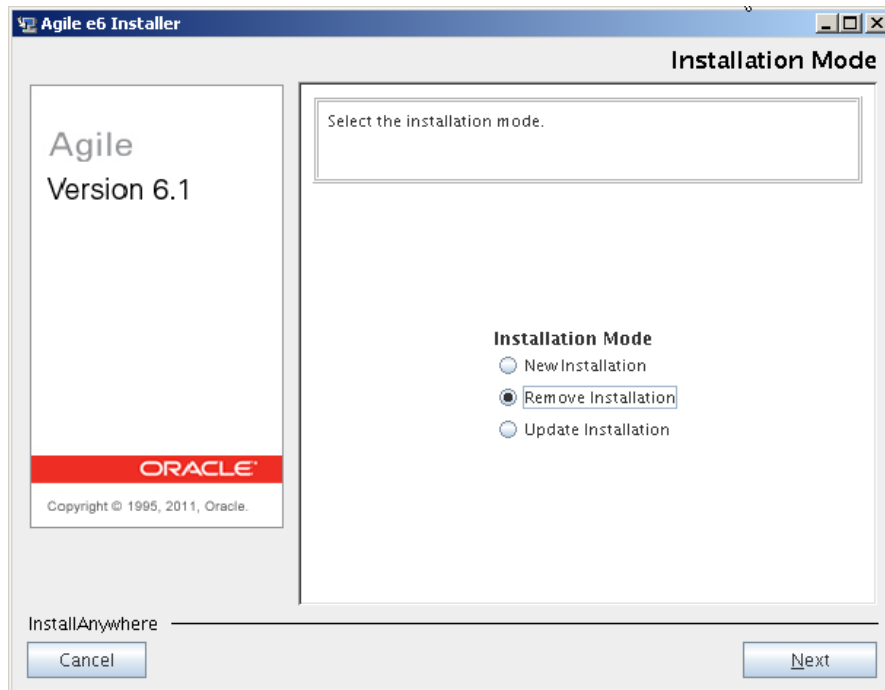
1. Open a c-shell.
2. Change to the Installer directory:
`cd <installation-media-path>/installer`
3. Enter the following command:
`./gui.csh`

The *Installation Sets* 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.

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 installer information will be removed after this task!

If the Agile e6.1.2 installation is removed from the server, the directory can be deleted.

All components of the installation are removed!

Deleting the WebLogic Domains

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.

