

Agile

Version e6.1

ORACLE®

# Oracle® Agile Engineering Data Management

Prerequisites Guide for Agile e6.1.2

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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, which is located on the title page.

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## TTY Access to Oracle Support Services

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

## Readme

Any last-minute information about Oracle Agile EDM can be found in the Release Notes file on the [Oracle Technology Network \(OTN\) Web site](http://www.oracle.com/technology/documentation/agile_eseries.html) ([http://www.oracle.com/technology/documentation/agile\\_eseries.html](http://www.oracle.com/technology/documentation/agile_eseries.html))

## Agile Training Aids

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

## Accessibility of Code Examples in Documentation

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

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# Configuration Support Overview

This chapter summarizes the hardware and software configurations supported by the following Agile e6.1.2 installation components:

- Agile e6.1.2 server
- Oracle WebLogic server
- Oracle database server
- Java Client, Windows Client, and Web Client

## Agile e6.1.2 Server, Oracle WebLogic Server, and Oracle Database Server Support

The following list shows the platform / operating system configurations supported by the Agile e6.1.2 server, Oracle WebLogic server, and Oracle database server:

- IBM AIX 6.1 (Power PC 5 or higher)
- HP UX 11i v3 (11.31) (Itanium 2)
- Oracle Solaris 10 (UltraSPARC IIIi or higher)
- SUSE Linux Enterprise Server 11
- Windows 2008 Server (64bit) Enterprise Edition
- Windows 2008 Server R2 (64bit) Enterprise Edition

**Important** The Agile e6.1.2 server requires a locally installed **32bit** version of the Oracle database client for connections to the Oracle database server.

**Note** The Oracle WebLogic 11g Release 1 (10.3.3) and the Oracle Database 11g Release 2 (11.2.0.1) are supported.

**Note** For further Oracle Database requirements refer to the manuals *Installation Manual for Oracle 11gR2 on Windows* or *Installation Manual for Oracle 11gR2 on UNIX* which can be found in the documentation package on E-Delivery or OTN.

## Client Support

The following table shows the hardware and software configurations supported by the Agile e6.1.2 clients, as well as the web browsers supported for the Web client for each configuration.

All supported clients run against the entire supported server platforms described above.

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**Note** More information about the different clients can be found in the Architecture Guide and the Online Help. The documentation can be found on the Oracle Technology Network (OTN) Web site (<http://www.oracle.com/technology/documentation/agile.html>) and on E-Delivery (<http://edelivery.oracle.com>).

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Platform/Operating System	Agile e6.1 Client			
	Windows Client	Java Client	Web Client	WebStart
Windows XP Professional (32/64bit)	Yes*	Yes	Internet Explorer 8 or Firefox 3.6	
Windows Vista (32/64bit)	-	Yes	Internet Explorer 8 or Firefox 3.6	
Windows 7 (32/64bit)	-	Yes	Internet Explorer 8 or Firefox 3.6	
Windows Server 2008 Enterprise Edition (64bit)	-	Yes	Internet Explorer 8 or Firefox 3.6	
Windows Server 2008 R2 Enterprise Edition (64bit)	-	Yes	Internet Explorer 8 or Firefox 3.6	
* The Windows client will run in a 32Bit compatibility mode while running on a 64Bit operating system.				



## Chapter 2

# Hardware Requirements

To improve the performance and fault tolerance of your database, it is recommended in general that you spread disk space across many smaller drives, rather than a few large drives. A configuration with at least two disk drives is recommended.

## Minimum Network Connectivity and Bandwidth

- TCP / IP and UDP / IP connections between server, client, Oracle WebLogic server and Oracle database server(s).
- Network bandwidth for clients via WAN: One exclusive ISDN channel (64 Kbit – without file transfer) is good for 2-4 working clients.
- Add bandwidth for sharing documents via WAN connections.
- 1 Gbit/s or higher LAN connection between Oracle WebLogic server, Oracle database server and Agile e6 server.

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**Note** At a minimum, a TCP/IP loopback device is required.

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## Minimum Memory Requirements

The following recommendations are incremental to the amount of RAM required for other applications and the operating system:

- Client machines: 1 GB
  - Note** If you want to use the Agile e6.1.2 Windows client, make sure that you have not set the /3GB parameter in the Microsoft boot.ini file.
- Agile e6 server machine: 2 GB (without database server and WebLogic)
  - Up to 70 MB per connect
- Oracle database server machine: 1GB (3GB if on the same machine where the Agile e6 server is running)
  - 6 MB per connected user, plus 400 MB for database services
- Oracle WebLogic server: 4 GB
- Swap space should be a minimum of three times the amount of RAM. On systems with large amounts of memory (more than 1 GB), this can be reduced to two times the amount of RAM.

## Minimum CPU Requirements for Windows

- Intel Pentium 2 GHz equivalent or better.

## Minimum Disk Space

- Oracle WebLogic Server (software only):
  - Windows: 1 GB
  - Unix: 600 MB up to 2 GB
- Oracle 11g server (software only):
  - Windows: up to 3 GB
  - Unix up to 8 GB
- Oracle 11g client:
  - 500 MB for Windows installations
  - 1 - 3 GB for UNIX installations
- Agile e6 server: 1 GB
- Windows client installation on separate machine: 80 MB
- Java client installation on Windows machine: 40MB
- Office Suite: 10 MB

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**Note** It is strongly recommended not to install the software on a network file system (NFS) to avoid possible performance issues.

**Note** For further information please refer to the document Hardware Sizing Recommendations for Agile e6.1.2.

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## Chapter 3

# Required Software and Configurations

## Java Version

Some parts of the software require 32bit Java software to be installed in the system.

See the following table for the required versions:

Installation Type	Java Runtime Environment (32bit) 6.0
Agile e6.1.2 server	Yes
Windows client	Yes
Java client	Yes
Webstart (on the client operating system)	Yes

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**Note** The supported Java Runtime Environment on all operating systems is the Sun Java except for AIX and HP-UX where the only available Java software is the one which comes with these operating systems.

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## Digital Signature

- An official signature, certified by an authorized certification authority, is needed. Please refer to:
  - <http://www.verisign.com> (for US)
  - <http://www.trustcenter.de> (for Germany)
- Supports the X509v3 and PKCS12 standard for certificates and private keys.

## FileServer

- For Windows the file server system must be based on NTFS. FAT is not supported.
- The electronic vault must be created on a local hard disk or on a SAN drive which has redundant connections (The SAN should be configured not to share the connection between the fileserver and applications like a database that generates a lot of I/O traffic on that connection).

## Programs on UNIX

The UNIX scripts require the following commands to be available in the path of the user while

installing and running the Agile e6 sever:

Name	Description	UNIX OS
/bin/sh	Bourne Shell	All
/bin/csh	C Shell	All
/bin/ps or /usr/bin/ps	Report process status	All
awk	Pattern scanning and processing language	All
basename	Deliver portions of path names	All
cat	Concatenate and display files	All
chmod	Change the permissions mode of a file	All
dirname	Deliver portions of path names	All
ls	List contents of directory	All
lsb_release	Get the release version	Linux
sed	Stream editor	All
uname	Print name of the current system	All
touch	Change file access and modification times	All



## Chapter 4

# Operating System Requirements and Configurations

The Agile e6.1 software has been certified under the following operating system configurations. The following sections describe the configurations supported on your platforms.

## Windows

The minimum service packs for the supported Windows operating systems are as follows:

Windows Version	Service Pack
Windows XP Professional 32Bit (client only)	SP3
Windows XP 64Bit version (client only)	SP2
Windows Vista 32/64Bit (client only)	SP2
Windows 7 32/64Bit (client only)	-
Windows Server 2008 Enterprise Edition 64Bit	SP2
Windows Server 2008 R2 Enterprise Edition 64Bit	-

## Microsoft Visual Studio 2005 C/C++ Runtime Libraries

The Agile e6.1 software requires a specific installed 32bit Runtime Library (8.0.50727.4053) which always has to be installed even if there is already a newer version of the Runtime Library installed.

Unpack <installation\_package\_root>\packages\intel-ms-nt6.0\vc\_redist.zip

Execute the ext\bin\intel-ms-nt6.0\vc\_redist\_x86\_vc8.exe file which will install the specific required Microsoft Visual Studio 2005 C Runtime Libraries.

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**Note** The version that is bundled with the Agile e6.1 software should always be installed even if the Microsoft Update is used to install updates for the Runtime Libraries in future.

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## IBM AIX

The supported OS version for the IBM workstation is AIX 6.1. and the minimum technology level for the supported AIX operating system is as follows:

AIX Version	Technology Level
6.1	6 (with SP3) or higher

To determine the full operating system version enter the following command:

```
oslevel -s
```

The result for AIX 6.1 TL 6 SP3 should look like:

```
6100-06-03-1048
```

The following file sets must be installed:

- bos.adt.base
- bos.adt.libm
- xIC.aix61.rte: 11.1.0.2 or higher

To determine which operating system file sets are installed, enter the following command:

```
lslpp -l [fileset_name]
```

Or, enter the following command to list all the file sets:

```
lslpp -l
```

## Web References

- IBM fixes:  
<http://www.ibm.com/support/fixcentral/main/System+p/AIX>
- IBM Java Runtime Environment:  
<http://www.ibm.com/developerworks/java/jdk/aix/service.html>

## HP-UX

The supported OS version for the Itanium 2 architecture is:

- HP-UX 11i v3 (11.31)

This can be tested with the command:

```
uname -r
```

The minimum patch bundles for the supported HP-UX operating systems are as follows:

HP-UX Version	Quality Pack	
	Base	Applications
B.11.31	March 2009	March 2009

The installed base and application patches can be tested with the following command:

```
swlist -l bundle | grep QPK
```

The output should be:

```
QPKAPPS      B.11.31.0903.334a Applications Patches for HP-UX 11i v3,
March 2009
QPKBASE      B.11.31.0903.334a Base Quality Pack Bundle for HP-UX 11i
v3, March 2009
```

### Additional Patches

The following additional patches are required:

- [PHSS\\_38141](#) C++ runtime patch
- [PHSS\\_39094](#) linker + fdp cumulative patch
- [PHSS\\_39102](#) unwind library cumulative patch
- [PHSS\\_39827](#) libm cumulative patch

## Web References

- HP-UX Fixes:  
<http://itrc.hp.com/>
- HP Java Runtime Environment:  
<http://www.hp.com/go/java>

## Recommended HP-UX Kernel Settings

The HP-UX 11i default value for maximum threads per process is 64. It is recommended that you use the maximum kernel setting for the `max_thread_proc` and `maxusers` parameters. Setting `maxusers` to a higher value increases other machine-wide limits, such as `nkthread` (max number of kernel threads).

The following table shows the recommended configuration of the HP-UX kernel.

Parameter	Old	New	Description
<code>max_thread_proc</code>	64	1024	Maximum threads per process
<code>maxfiles</code>	60	256	Soft file limit per process
<code>maxusers</code>	32	256	Influences other parameters
<code>nkthread</code>	499	3635	Number of threads total on the system
<code>nproc</code>	276	2068	Maximum number of processes
<code>ncallout</code>	292	2084	Number of pending timeouts

If you want to install the Oracle server on HP-UX, refer to the Installation Manual for Oracle 11g for Agile e6.1.2 on UNIX. The values become effective after rebooting.

## Oracle Solaris (SPARC)

The supported OS version for the Oracle servers (SPARC) is Solaris 10. This can be tested with the



command:

```
uname -r
```

The minimum patch set for the supported Solaris operating system is:

Solaris Version	Required Release
10	Update 9 (09/2010)

In addition, you will need the SUNWlibC packages to meet the Sun C++ runtime environment requirements. You will also need the following operating system packages to be installed on your Solaris machine:

- SUNWarc
- SUNWbtool
- SUNWhea
- SUNWlibm
- SUNWlibms
- SUNWsprot
- SUNWtoo

To get a list of all the packages installed in the system, run *pkginfo -i*.

The exact version of Solaris 10 can be found in */etc/release*:

```
cat /etc/release
```

The output should be:

```
Oracle Solaris 10 9/10 s10s_u9wos_14a SPARC
Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
Assembled 11 August 2010
```

## Web References

- Sun Java Runtime Environment:  
<http://www.oracle.com/technetwork/java/index.html>

## SUSE Linux Enterprise Server

The minimum patch set for the supported SUSE Linux Enterprise Server operating system is as follows:

SUSE Linux	Required Service Pack
11	SP 1

The minimum package levels for the supported Linux operating systems are:

Package	Version
kernel	2.6.32.12-0.7.1

glibc	2.11.1-0.17.4
libstdc++43	4.3.4_20091019-0.7.35

The installed versions of rpm packages can be tested with the following command:

```
rpm -q -a | grep <package-name>.
```

To determine the amount of RAM memory installed on your system, enter the following command:

```
cat /proc/meminfo | grep MemTotal
```

To determine the bytes of swap space currently configured on your system, enter the following command and multiply the BLOCKS column by 512:

```
/sbin/swapon -s
```

## Necessary network configuration on SLES

The Fileserver and the DTV Daemon are using the new TI-RPC library on SLES 11. The TI-RPC library is using the system configuration file `/etc/netconfig` to determinate the preferred RPC connection method.

The default configuration in `/etc/netconfig` is to use IPv6 for RPC connections. This will cause communication failures for the Fileserver and the DTV Daemon if IPv6 is not enabled.

There are two solutions for this issue:

- Enable IPv6 in the network configuration.
- Disable IPv6 in `/etc/netconfig` by adding the comment character '#' in front of the `udp6` and `tcp6` entries or delete these two lines completely.

For more information about software configurations and platform matrixes refer to the Agile e6.1 Release Notes – Platform Support document available on e-delivery or the Oracle Technology Network.