

Agile® e6.0

Agile e6.0.3

Prerequisites Guide Includes the Pre-Installation Checklist

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Configuration Support Overview

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

е6	Serv	<i>ie</i> r

- e6 Business and Presentation Services
- ☐ Windows Client, UNIX Client and Web Client

e6 Server and e6 Business and Presentation Services Support

The following table shows the hardware and software configurations supported by the e6 Server and e6 Business and Presentation Services installation components. A "Yes" in the column for a database system or the e6 Business and Presentation Services component indicates that it can be:

- installed on the given platform/operating system.
- used with an e6 server running on any other supported platform/operating system.

Platform/Operating System	Database System			e6 Business and Presentation Services
	Oracle 10 <i>g</i> Release 1 (10.1.0.4)	Oracle 10 <i>g</i> Release 2 (10.2.0.2)	Microsoft SQL Server 2005, SP1	
HP UX 11i (11.11) (PA-RISC 2.0 or higher)	Yes	Yes	-	Yes
HP UX 11v2 (11.23) (PA-RISC 2.0 or higher)	Yes	Yes	-	Yes
Sun Solaris 9 (UltraSPARC IIi or higher)	Yes	Yes	-	Yes
Sun Solaris 10 (UltraSPARC IIi or higher)	Yes	Yes	-	Yes
IBM AIX 5V Version 5.2 (Power PC 4 or higher)	Yes	Yes	-	Yes
IBM AIX 5L Version 5.3 (Power PC 4 or higher)	Yes	Yes	-	Yes
SUSE Linux Enterprise Server 9 (i386)	Yes	Yes	-	Yes

Platform/Operating System	Database System		e6 Business and Presentation Services	
	Oracle 10 <i>g</i> Release 1 (10.1.0.4)	Oracle 10 <i>g</i> Release 2 (10.2.0.2)	Microsoft SQL Server 2005, SP1	
Windows 2003 Server (x86) Enterprise Edition	Yes	Yes	Yes	Yes

About the e6 Business and Presentation Services

The e6 Business and Presentation Services component includes the following:

- The Web Presentation Service, which gives users access to Agile e6 functionality through their web browsers
- The Workflow module, which provides a robust and scaleable solution for the automation of business processes in an engineering organization.

For information on administrating the e6 Business and Presentation Services, refer to *Administration Manual for Agile e6.0.3* (PLM603_Admin.pdf) on the product DVD. For information on using Workflow features, refer to the Agile e6 online help: *Using Agile e6* > *Workflow*.

Client Support

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

A "Yes" in the column for a client indicates that you can install it on the given server platform.

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

Platform/Operating System	Agile e6 Client		
	Windows Client	Java Client	Web Client
HP UX 11i (PA-RISC 2.0 or higher)	-	Yes	Mozilla 1.7.x
HP UX 11iv2 (PA-RISC or higher)	-	Yes	Mozilla 1.7.x
Sun Solaris 9 (UltraSPARC IIi or higher)	-	Yes	Mozilla 1.7.x
Sun Solaris 10 (UltraSPARC IIi or higher)	-	Yes	Mozilla 1.7.x
IBM AIX 5L Version 5.2 (Power PC 4 or higher)	-	Yes	Mozilla 1.7.x
IBM AIX 5L Version 5.3 (Power PC 4 or higher)	-	Yes	Mozilla 1.7.x

Platform/Operating System	Agile e6 Client		
	Windows Client	Java Client	Web Client
SUSE Linux Enterprise Server 9 (i386)	-	Yes	Mozilla 1.7.x
Windows XP Professional	Yes	Yes	IE 6.0 SP1 or Mozilla 1.7.x
Windows 2000 Professional	Yes	Yes	IE 6.0 SP1 or Mozilla 1.7.x
Windows Server 2003 Enterprise Edition	Yes	Yes	IE 6.0 SP1 or Mozilla 1.7.x

About the Agile e6 Clients

The Windows Client (also known as the PC Client) is designed specifically for Windows platforms and is installed automatically as part of the Windows Server installation process. For information on installing the Windows Client and the Java Client for Windows on a separate machine from the PLM Server, refer to *Installation Manual for Agile e6.0.3 on Windows Client* (PLM603_WindowsClient.pdf).

The UNIX Java Client is available for installation on supported UNIX machines from the setup dialog box. For more information, refer to *Installation Manual for Agile e6.0.3 on Unix Client* (PLM603_UnixClient.pdf).

The Web Client, which you configure through the Web Presentation Service, is available for use through supported web browsers. For more information, refer to the *Administration Manual for Agile e6.0.3* (PLM603_Admin.pdf).

Note:

All Agile e6 installation documentation is available in the doc directory on the product DVD. The installation documentation is shipped in Adobe® Portable Document Format (PDF). To view the files, use the Adobe Acrobat® Reader® software, which is available at no charge at www.adobe.com.

Hardware Requirements

To read the Agile e6 DVD for installation, your installation machine must have a DVD drive that supports ISO 9660 file system.

To improve the performance and fault tolerance of your database, Agile recommends 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 Bandwidtl	Minimum	Network	Connectivity	, and	Bandwidtl
--	----------------	---------	--------------	-------	------------------

Windows Minimum CPU requirements:

For Windows platforms, Intel Pentium 1GHz equivalent or better.

	TCP / IP an	d UDP / IP connections between server, client, database, and license server(s).
		ndwidth for clients via WAN: One exclusive ISDN channel (64 Kbit – without) is good for 2-4 working clients.
	Add bandw	idth for sharing documents via WAN connections.
	100 MBit/s	LAN between database server and Agile e6 application server.
	Note:	At a minimum, a TCP/IP loopback device is required
Min	imum Mer	nory Requirements
		ommendations are incremental to the amount of RAM required for other he operating system.
	Client mach	nines: 512 MB
	Note:	If you want to use the Agile e6 DataView Client, make sure that you have not set the /3GB parameter in the Microsoft boot.ini file.
	Agile e6 Ser	ver machine: 512 MB
	• Up to 5	0 MB per connect
	Database sy	stem machine:
	• Oracle:	6 MB per connected user, plus 400 MB for database services
	Machine ho user.	sting the Web Presentation Service: additional 20 MB plus 6 MB per concurrent
		should be a minimum of three times the amount of RAM. On systems with its of memory (more than 1 GB), this can be reduced to two times the amount

Minimum	Disk	Space	j
IVIIIIIIII		UNUUL	,

- ☐ Agile e6 Server: 500 MB
- ☐ Oracle 10g Server:
 - 2.5 GB for Windows installations
 - 3 4 GB for UNIX installations
- □ Oracle 10*g* Client:
 - 650 MB for Windows installations
 - 650 2000 MB for UNIX installations
- □ SQL Server 2005: 1GB
- ☐ Windows Client installation on separate machine: 180 MB
- □ UNIX Java Client installation on separate machine: 80 MB

Module Specific Requirements

Port	tals, Client Requirements
_	Internet Explorer 6.0 with SP1, or Mozilla 1.7.x or later
_	Windows XP/2000/2003 External Mail
-	Your mail application must be conform with MAPI and is compatible with Outlook Express and Netscape
_	Windows XP/2000/2003 only
_	A display with a resolution of 1024 by 768 pixels or higher
Mic _	rosoft NetMeeting, Client Requirements Windows XP/2000/2003 only
Digi	tal 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)
	Support of the X509v3 and PKCS12 standard for certificates and private keys
File	Server

For Windows the FileServer system must be based on NTFS. FAT is not supported.

The electronic vault must be created on a local hard disk.

Recommended Software Configurations

The Agile e6 software has been certified under the following operating system configurations. Please look below for the supported configuration on your platforms.

Windows

The recommended service packs for the supported Windows Operating systems are found below:

Windows Version	Service Pack
Windows Server 2003 Enterprise Edition (client & server)	SP1
Windows XP Professional (client)	SP2
Windows 2000 Professional (client)	SP3

IBM AIX

The supported OS Versions for the IBM workstation are AIX 5L Version 5.2 and 5.3. This can be tested with the command:

oslevel

The recommended maintenance levels for the supported AIX Operating systems are found below:

AIX Version	Maintenance Level
5.2	5 or higher
5.3	2 or higher

The AIX file sets bos.adt.base and bos.adt.libm must also be installed:

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

lslpp -l [fileset_name]

Or, if you enter the following command all file sets are listed:

Islpp -I

To determine which operating system patches are installed enter the following command:

instfix -a

To determine if a patch has been installed enter the following command:

```
instfix -ivk APAR_number
```

Web references

IBM Fixes:

http://www-1.ibm.com/servers/eserver/support/pseries/aixfixes.html

http://www-912.ibm.com/eserver/support/fixes/fcgui.jsp

IBM JDK:

http://www.ibm.com/developerworks/java/jdk/aix/index.html

HP-UX

The supported OS Versions for the HP-UX (PA-RISC 2.0 or higher) workstation are HP-UX 11.11 and 11.23. This can be tested with the command:

uname -r

The recommended patch bundles for the supported HP-UX Operating systems are found below:

HP-UX Version	Patch Bundles
B.11.11	December 2001
B.11.23	September 2004

HP-UX 11.11

The patch bundles from the HP-UX SupportPlus CD December/2001 CD-No 5012-0015, KIT No. 5065-8711 are required. You can check this on your workstation with:

```
swlist -I bundle | grep GOLD
```

Output should be:

```
GOLDAPPS11i B.11.11.0112.6 Gold Applications Patches for HP-UX 11i, December 2001 B.11.11.0112.6 Gold Base Patches for HP-UX 11i, December 2001
```

These bundles contain the necessary patches PHCO-24400 'libc cumulative patches'. In addition, you should install patch PHSS_24638 to update the C++ runtime libraries. You can check this on your workstation with:

```
swlist -I patch | grep PHSS_24638
```

This should show the following patches applied:

PHSS_24638.CORE-64SLIB	1.0	OS-Core.CORE-64SLIB	applied
PHSS_24638.CORE-SHLIBS	1.0	OS-Core.CORE-SHLIBS	applied
# PHSS_24638	1.0	HP aC++ -AA runtime libraries (aCC A.03.33)

# PHSS_24638.CORE-64SLIB	1.0	OS-Core.CORE-64SLIB	applied
# PHSS_24638.CORE-SHLIBS	1.0	OS-Core.CORE-SHLIBS	applied
# PHSS_24638.LANG-64ALIB	1.0	B.11.11	applied
# PHSS_24638.LANG-MIN	1.0	B.11.11	applied
PHSS_24638.LANG-64ALIB	1.0	B.11.11	applied
PHSS_24638.LANG-MIN	1.0	B.11.11	applied

HP-UX 11.23

The patch bundle from the HP-UX Application Software DVD September/2004 DVD-No 5013-2297 or the September 2004 Media KIT No. 5990-8167 is required. You can check this on your workstation with:

swlist -I bundle | grep BUNDLE11i

Output should be:

BUNDLE11i B.11.23.0409.3 Required Patch Bundle for HP-UX 11i v2 (B.11.23), September 2004

Web references

HP-UX Fixes:

http://itrc.hp.com/

HP JDK:

http://www.hp.com/products1/unix/java/

Recommended HP-UX kernel settings

The HP-UX 11i default value for maximum threads per process is 64. Agile recommends 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
max_thread_proc	64	1024	Maximum threads per process
maxfiles	60	256	Soft file limit per process
maxusers	32	256	Influences other parameters

Parameter	Old	New	Description
nkthread	499	3635	Number of threads total on the system
nproc	276	2068	Maximum number of processes
ncallout	292	2084	Number of pending timeouts

If you want to install the Oracle Server on HP-UX, refer to *Installation Manual for Oracle 10g for Agile e6.0.3 on UNIX* (PLM603_10g_UNIX.pdf) for further kernel adaptations. The values become valid after rebooting.

Sun Solaris

The recommended patch sets for the supported Solaris operating systems are found below:

Solaris Version	Recommended Patches
9	22.04.2003
10	

Solaris 9 12/02 with recommended patches (state: Apr/22/03) and Solaris 10 are the supported Solaris versions.

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

If you enter pkginfo -i, all installed packages are listed.

To verify installed patches on your SUN system, enter:

showrev -p

SUSE Linux Enterprise Server 9

The recommended package levels for the supported Linux Operating systems are found below:

Package	Version
kernel	2.6.5-7.151
glibc	2.3.3-98.38
libstdc++	3.3.3-43.28

You can test installed versions of rpm packages with:

```
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

For further help on installation and configuration of Oracle 10g on SUSE Linux see:

http://www.novell.com/products/linuxenterpriseserver/oracle/matrix.html

For more information about software configurations, refer to the Customer Support page:

http://www.agile.com/support

Pre-Installation Checklist

As a courtesy to you, we have a pre-installation checklist provided to help you prepare your

		Agile project manager will assist you with the installation, you will need to ecklist and return it to them before the planned installation date.			
Cor	npany and	I IT Structure			
	• •	any Name:			
	• Comp	any Address:			
	System Ad	ministrator:			
	Phone				
	• Fax:				
	• Email:				
	Database A	Database Administrator:			
	• Phone				
	• Fax:				
	• Email:				
	Agile e6 Administrator:				
	• Phone				
	• Fax:				
	• Email:				
Ins	tallation l	Media			
Plea	se verify:				
		e to locally mount and read DVDs (ISO9660 with rrip) on each target machine le e6 installation.			
Noc	le for Lice	ense Manager			
The	License Mar	nager should be installed on the following target node:			
	Node Name:				
	Operating System (uname -a or Windows version):				
	UCHOST	ID (as shown by uchostid):			
	Note:	Make sure that you run the uchostid program as Administrator (NT) or as			

root (UNIX) on the license manager node.

6. Node Name:

Operating System:

Pleas	e check:					
	The operating system on the target machine for the license server is supported. Refer to Section "PLM Server and PLM Business and Presentation Services Support".					
	nore information regarding the License Manager, refer to the section "Licensing Overview" e Agile e6 Installation Overview.					
Targ	jet Platforms					
Pleas	e check:					
	The operating system, database, and patch sets on all target machines are compliant with the currently supported versions. Refer to sections 1, 2 and 4 of this document.					
For U	Jnix, check:					
	Portmapper is running					
	Lockd is running					
	Statd is running					
	Database – client installation is already installed and configured					
	C-Shell is installed (Linux:tcsh)					
	X11 is installed					
	Up-to-date C++ libraries are installed					
For b	ooth Windows and UNIX:					
Pleas	e list all target platforms (uname -a or Windows version) the nodename(s) and version(s):					
1. No	de Name:					
Opera	ating System:					
2. No	de Name:					
Operating System:						
3. Node Name:						
Opera	Operating System:					
4. No	de Name:					
Opera	ating System:					
5. No	de Name:					
Opera	ating System:					

System Administration Requirements

Pleas	se check:	
	A system administrator prepared to login as root (UNIX) and/or (Domain) Administrator (Windows) is available to assist for system specific parts of the installation at any time during the installation process.	
	Recovery procedures for installation nodes and trained personnel for recovery are available at any time during the installation process.	
	Nodes can be rebooted prior to the installation	
	Nodes can be rebooted for startup testing after and during installation	
Syste	em Administrator Contact:	
	Name:	
	Phone:	
	Fax:	
	Email:	
Dat	abase Administration Requirements	
Pleas	se check:	
	The system requirements are met on all target machines running a database or a database client installation as listed earlier in this document.	
	Recovery procedures for database nodes/databases and trained personnel for recovery are available any time during the installation process.	
Data	abase software:	
	The database software is already installed and supported as shown earlier in this document	
or		
	You purchased your database software through Agile and it will be installed and configured as part of the contracted installation.	
	A database administrator, who is prepared to log in as database administrator, is available to assist for database specific parts of the installation any time during the installation process (for example, to create database users and tablespaces).	
Data	abase administrator contact:	
	Name:	
	Phone:	
	Fax	
	Email:	
Che	cklist filled out by:	
	Name:	
	Phone:	

Cha	pter 5		Pre-Installation Checklist		
	Fax				
☐ Email:					
City	, Date	Signature			