

System Requirements

SAS[®] Profitability Management 2.21

This document provides the requirements for installing and running SAS Profitability Management. You must update your computer to meet the minimum requirements before installing SAS Profitability Management. The major requirements listed in the document are:

- software requirements
- hardware requirements

For additional information, contact SAS Institute Technical Support. Sites in the U.S. and Canada may call (919) 677-8008. Other sites should contact their SAS Installation Representative or SAS Support Consultant for the nearest SAS Institute office.

Deployment

SAS Profitability Management 2.21 can be installed on multiple servers with Windows or UNIX operating system. The following is an outline of the most complex deployment.

- Server Machine 1: Web Server
- Server Machine 2: Workspace Server, OLAP Server and Transaction Assignment Server
- Server Machine 3: Metadata Server. This could be an existing SAS Metadata server.
- Server Machine 4 (Optional): Database Server

The SAS Profitability Management client is only available on a Windows operating system. The following table displays the products available depending on the operation system of the SAS Profitability Management Mid-Tier.

Mid-Tier Architecture	Database	Web Server
Windows 2003 64-bit Windows 2008 64-bit	SAS Datasets	JBoss or WebLogic or WebSphere
Solaris	SAS Datasets	WebLogic
AIX	SAS Datasets	WebSphere
Linux	SAS Datasets	JBoss

For mixed machine architecture, please contact SAS Technical Support.

Web Application Server Versions:

- Oracle WebLogic 10.3.3: OEM for SAS (when SAS moves the OEM version to 10.3) and the full commercial version from Oracle. If you plan to use WebLogic with Windows 2008 R2, please be aware that only 10.3.3 is supported on Windows 2008 R2 by both SAS and Oracle. SAS recommends a minimum of 12GB of RAM for use with WebLogic.
- IBM WebSphere 7 (7.0.0.13): OEM for SAS (when SAS moves the OEM version to 7) and the ND commercial version from IBM. SAS recommends a minimum of 12GB of RAM for use with WebSphere.
- JBoss 4.2.3 and 4.3: The Community version from jboss.org and the EAP version from Red Hat. Note that the Community version has SAS support limitations documented at <http://support.sas.com/resources/thirdpartysupport/jbossSupport.html>.

Server Requirements

The number and size of models and their associated analysis cubes affect all factors of hardware-related performance. The applicability of a specific server platform is primarily dependent on data volumes. The minimum and preferred hardware platforms are estimations only. The minimum server configuration is required to operate the software and perform relatively small analyses. As data volumes increase, the processing times will increase as well. There may come a point where the server hardware must be upgraded for faster processing.

Server Hardware Requirements

	Minimum	Preferred
Hardware	<p>This configuration is recommended for small-size transaction tables (up to 10 million transaction rows per period) and up to 10 report viewers.</p> <p>1) Unified Server (X86, X86-64, Power PC, or SPARC): Two - 2 GHz or more CPUs, 4GB RAM, 200GB of disk space (for models, transaction tables, and cubes) ¹</p>	<p>This configuration is recommended for medium-size transaction tables (up to 100 million transaction rows per period) and up to 50 report viewers. ²</p> <p>1) Web Server (X86, X86-64, PowerPC, or SPARC): Two - 2 GHz or more CPUs, 4GB RAM or more, 100GB of disk space</p> <p>2) Metadata Server ³ (X86, X86-64, Power PC, or SPARC): Two - 2 GHz or more CPUs, 4GB RAM or more, 100GB of disk space</p> <p>3) Workspace Server, OLAP Server and Transaction Assignment Server (X86, X86-64, PowerPC, or SPARC): Four - 2 GHz or more CPUs, 8GB RAM, 800GB of disk space (preferably with an enhanced hard disk subsystem) ¹</p>

¹ Calculating OLAP fact tables and cubes may require hundreds of gigabytes of additional disk space in some cases. The disk space estimates provided represent typical usage. The actual amount of disk space used by any particular installation will vary based upon the types and number of analyses performed. Please consult your sales executive or technical support for more information.

² For larger transaction tables and/or a larger number of report viewers, please consult with SAS Technical Support.

³ For typical installations, the Metadata Server machine will be a computer shared among all installed SAS applications. It is not necessary that this machine be dedicated to SAS Profitability Management.

Unified Server Machine Hardware Requirements

		Minimum	Preferred
Operating System		Windows 2003 Server SP2 (32/64-bit) or IBM AIX 6.1 TL4 (PowerPC) or Solaris 10 (SPARC) Red Hat Linux 5 (x86 64-bit) SuSE SLES Linux 10 SP3 (64-bit)	Windows 2008 Server R1 SP2 (32/64-bit) or Windows 2008 Server R2 SP1 (32/64-bit) or IBM AIX 7.1 (PowerPC) or Solaris 10 (SPARC) or Red Hat Linux 5 (x86 64 bit) SuSE SLES Linux 10 SP3 (64-bit)
SAS Components		SAS Web Report Studio 4.31	
SAS Servers		Base SAS 9.3and SAS Metadata Server 9.3 and SAS Workspace Server 9.3 and SAS OLAP Server 9.3	
Web Server ¹		JBoss 4.2.3 or Oracle WebLogic Server 10.3 or IBM WebSphere 7	JBoss 4.3 or Oracle WebLogic Server 10.3 or IBM WebSphere 7
Java SDK ¹	JBoss 4.2.3	SUN Java JDK 6 Update 24	
	JBoss 4.3	SUN Java JDK 6 Update 24	
	Weblogic 10.3	(Win) SUN Java JDK 6 Update 24 (Solaris) SUN Java JDK 6 Update 21	
	WebSphere 7.0.0.13	WebSphere7 installs its own version of the Java JDK for application use.	
Java Diagnostic Tool		JUnit 4.8.1	
Java Runtime Environment JRE		Windows 32 bit - SUN Java 6 Update 24 Windows 64 bit - SUN Java 6 Update 24 AIX - IBM Java 6 SR8 FP1 + iFix IZ77436 Solaris – SUN Java 6 Update 21 Linux - SUN Java 6 Update 21	

¹ SAS Profitability Management’s Java requirements and JBoss/WebLogic/WebSphere requirements are identical to the SAS Enterprise BI Server platform requirements. Any discrepancies are in error and should be communicated to the SAS Profitability Management team.

Web Server Machine Software Requirements

	Minimum	Preferred
Operating System	Windows 2003 Server SP2 (64-bit) or IBM AIX 6.1 TL4 (PowerPC) or Solaris 10 (SPARC) Red Hat Linux 5 (x86 64-bit) SuSE SLES Linux 10 SP3 (64-bit)	Windows 2008 Server R1 SP2 (64-bit) or Windows 2008 Server R2 SP1 (64-bit) or IBM AIX 7.1 (PowerPC) or Solaris 10 (SPARC) or Red Hat Linux 5 (x86 64-bit) SuSE SLES Linux 10 SP3 (64-bit)
SAS Components	SAS Web Report Studio 4.31	
Web Server ¹	JBoss 4.2.3 or Oracle WebLogic Server 10.3 or IBM WebSphere 7	JBoss 4.3 or Oracle WebLogic Server 10.3 or IBM WebSphere 7
Java SDK ¹	JBoss 4.2.3	SUN Java JDK 6 Update 24
	JBoss 4.3	SUN Java JDK 6 Update 24
	Weblogic 10.3	(Win) SUN Java JDK 6 Update 24 (Solaris) SUN Java JDK 6 Update 21
	WebSphere 7.0.0.13	WebSphere7 installs its own version of the Java JDK for application use.
Java Diagnostic Tool	JUnit 4.8.1	
Java Runtime Environment JRE ¹	Windows 32 bit - SUN Java 6 Update 24 Windows 64 bit - SUN Java 6 Update 24 AIX - IBM Java 6 SR8 FP1 + iFix IZ77436 Solaris – SUN Java 6 Update 21 Linux - SUN Java 6 Update 21	

¹ SAS Profitability Management's Java requirements and JBoss/WebLogic/WebSphere requirements are identical to the SAS Enterprise BI Server platform requirements. Any discrepancies are in error and should be communicated to the SAS Profitability Management team

Metadata Server Machine Software Requirements

	Minimum	Preferred
Operating System	Windows 2003 Server SP2 (32/64-bit) or IBM AIX 6.1 TL4 (PowerPC) or Solaris 10 (SPARC) Red Hat Linux 5 (x86 64-bit) SuSE SLES Linux 10 SP3 (64-bit)	Windows 2008 Server R1 SP2 (32/64-bit) or Windows 2008 Server R2 SP1 (32/64-bit) or IBM AIX 7.1 (PowerPC) or Solaris 10 (SPARC) or Red Hat Linux 5 (x86 64 bit) SuSE SLES Linux 10 SP3 (64-bit)
SAS Servers	Base SAS 9.3 and SAS Metadata Server 9.3	
Java Runtime Environment JRE	Windows 32 bit - SUN Java 6 Update 24 Windows 64 bit - SUN Java 6 Update 24 AIX - IBM Java 6 SR8 FP1 + iFix IZ77436 Solaris – SUN Java 6 Update 21 Linux - SUN Java 6 Update 21	

Workspace Server, OLAP Server and Transaction Assignment Server Machine Software Requirements

Due to the disk-intensive nature of OLAP and Transaction Assignment processing, this computer preferably should have an enhanced hard disk subsystem for greater data throughput.

	Minimum	Preferred
Operating System	Windows 2003 Server SP2 (32/64-bit) or IBM AIX 6.1 (PowerPC) or Solaris 10 (SPARC) Red Hat Linux 5 (x86 64-bit)	Windows 2008 Server R1 SP2 (32/64-bit) or Windows 2008 Server R2 SP1 (32/64-bit) or IBM AIX 6.1 (PowerPC) or Solaris 10 (SPARC) or Red Hat Linux 5(x86 64 bit)
SAS Servers	Base SAS 9.3and SAS OLAP Server 9.3and SAS Workspace Server 9.3and SAS/ACCESS if you access any RDMS ¹	
Java Runtime Environment JRE	Windows 32 bit - SUN Java 6 Update 24 Windows 64 bit - SUN Java 6 Update 24 AIX - IBM Java 6 SR8 FP1 + iFix IZ77436 Solaris – SUN Java 6 Update 21 Linux - SUN Java 6 Update 21	
Java Diagnostic Tool	JUnit 4.8.1	

Client Requirements

Hardware Requirements

	Minimum	Preferred
Processor	2.0 GHz	2.0 GHz or faster
Memory	2GB	2GB or more
Hard Disk	4GB available disk space with 2GB available on System drive	
Screen Resolution	1024x768 pixels screen area and High Color (16-bit) display	1280 x 1024 pixels screen area and True-Color 32-bit) display

Software Requirements

	Minimum	Preferred
Operating System	Windows XP Professional SP3 (32 bit) or Windows Vista (Enterprise, Business or Ultimate 32-bit editions) (32 bit) or Windows XP Professional x64 (via 32-bit compatibility) or Windows Vista (Enterprise, Business or Ultimate 64-bit via 32-bit compatibility) or Windows 7 (Enterprise, Ultimate, or Professional 32 or 64-bit via 32-bit compatibility)	
Web Browser	Microsoft Internet Explorer 7.0 for Windows XP or Windows Vista or Microsoft Internet Explorer 8.0 or 9.0 for Windows 7	
Java Runtime	Windows 32 and 64 bit - SUN Java 6 Update 24	
Java Diagnostic Tool	JUnit 4.8.1	

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