

# System Requirements

## SAS<sup>®</sup> Profitability Management 2.1

This document provides the requirements for installing and running SAS Profitability Management 2.1 software. You must update your computer to meet these minimum requirements before installing SAS Profitability Management. The major requirements listed in the document are

- Server requirements - hardware and software
- Client requirements- hardware and software

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.

### Server Requirements

The number and size of models and their associated analysis cubes affects 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) <b>Unified Server</b> (X86, Power PC, HP Itanium, or Sparc): Two 2 GHz or more CPUs, 4GB RAM, 200GB of disk space (for models, transaction tables, and cubes)<sup>1</sup></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.<sup>2</sup></p> <p>1) <b>Web Server</b> (X86, X86-64, Power PC, HP Itanium, or Sparc): Two 2 GHz or more CPUs, 4GB RAM or more, 100GB of disk space</p> <p>2) <b>Metadata Server</b><sup>3</sup> (X86, X86-64, Power PC, HP Itanium, or Sparc): Two 2 GHz or more CPUs, 4GB RAM or more, 100GB of disk space</p> <p>3) <b>Workspace Server, OLAP Server and Transaction Assignment Server</b> (X86, X86-64, Power PC, HP Itanium, or Sparc): Four 2 GHz or more CPUs, 8GB RAM, 800GB of disk space (preferably with an enhanced hard disk subsystem)<sup>1</sup></p>

<sup>1</sup> 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.

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

<sup>3</sup> For typical installations, the Metadata Server will be a shared computer amongst all installed SAS applications. It is not necessary that this server be dedicated to SAS Profitability Management.

## Unified Server Software Requirements

	Minimum	Preferred
Operating System	Windows 2003 SP1 (32 bit comp) Server or IBM AIX 5.3 or HP-UX Itanium Release 11.23or Solaris on SPARC Version 9	Windows 2003 Server SP2 (32 bit comp) or Windows 2003 Server SP2 (64 bit comp) or IBM AIX 6.1 or HP-UX Itanium Release 11.31 or Solaris on SPARC Version 10
SAS Components	SAS Web OLAP Viewer for Java 4.2	
SAS Servers	Base SAS 9.2 and SAS Metadata Server 9.2 and SAS Workspace Server 9.2 and SAS OLAP Server 9.2 SAS/ACCESS if you access any RDMS <sup>4</sup>	
Java Pick the one for your operating system	Java 5 SDK 5 Update 15 for Windows Java 5 SDK 5 Update 12 for Solaris Java 5.0.011 for HPUX Itanium see HP IBM 5.0.0.125 SR5, build pap32dev-20070511	
Java Servlet Container	JBoss 4.2.0.GA or BEA WebLogic Server 9.2 (32 bit JRE on HP Itanium - Not supported on Windows x64) or IBM WebSphere 6.1 with fix Pack 6.1.0.17 (not supported for HP Itanium)	JBoss 4.2.0.GA or BEA WebLogic Server 9.2 or IBM WebSphere 6.1 with fix Pack 6.1.0.17
Java Diagnostic Tool	JUnit 3.8.1	
Optional RDMS Servers Can use SAS for all data needs	Microsoft SQL Server 2005 SP2 Standard Edition or My SQL Server 5.0.67 <sup>5</sup> , or Oracle Server 11g	

<sup>4</sup> A SAS/ACCESS product is required for each RDMS system.

<sup>5</sup> If you are planning on installing any SAS solutions (SAS Financial Management, SAS Human Capital Management, SAS Strategy Management) that use MySQL database, you should install them first.

### **Web Server Software Requirements**

	<b>Minimum</b>	<b>Preferred</b>
Operating System	Windows 2003 SP1 (32 bit comp) Server or IBM AIX 5.3 or HP-UX Itanium Release 11.23 or Solaris on SPARC Version 9	Windows 2003 Server SP2 (32 bit comp) or Windows 2003 Server SP2 (64 bit comp) or IBM AIX 6.1 or HP-UX Itanium Release 11.31 or Solaris on SPARC Version 10
SAS Components	SAS Web OLAP Viewer for Java 4.2	
Java Pick the one for your operating system and Web server	Java 5.0.011 for HP-UX Itanium see HP IBM 5.0.0.125 SR5, build pap32dev-20070511 Java 5 SDK 5 Update 15 for Windows Java 5 SDK 5 Update 12 for Solaris	
Web Server	JBoss 4.2.0 or BEA WebLogic Server 9.2 or IBM WebSphere 6.1	
Java Diagnostic Tool	JUnit 3.8.1	

### **Metadata Server Software Requirements**

	<b>Minimum</b>	<b>Preferred</b>
Operating System	Windows 2003 SP1 (32-bit comp) Server or IBM AIX 5.3 or HP-UX Itanium Release 11.23 or Solaris on SPARC Version 9	Windows 2003 Server SP2 (32-bit comp) or Windows 2003 Server SP2 (64-bit comp) or IBM AIX 6.1 or HP-UX Itanium Release 11.31 or Solaris on SPARC Version 10
SAS Servers	Base SAS 9.2 and SAS Metadata Server 9.2	
Java Pick the one for your operating system	JRE 5 Update 15 for Windows JRE 5 Upgrade 12 for Solaris Java 5.0.011 for HP-UX Itanium see HP IBM 5.0.0.125 SR5, build pap32dev-20070511	

## **Workspace Server, OLAP Server, and Transaction Assignment Server 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.

	<b>Minimum</b>	<b>Preferred</b>
Operating System	Windows 2003 SP1 (32 bit comp) Server or IBM AIX 5.3 or HP-UX Itanium Release 11.23 or Solaris on SPARC Version 9	Windows 2003 Server SP2 (32 bit comp) or Windows 2003 Server SP2 (64 bit comp) or IBM AIX 6.1 or HP-UX Itanium Release 11.31 or Solaris on SPARC Version 10
SAS Servers	Base SAS 9.2 and SAS OLAP Server 9.2 and SAS Workspace Server 9.2 SAS/ACCESS if you access any RDMS <sup>6</sup>	
Java Pick the one for your operating system	JRE 5 Upgrade 15 for Windows JRE 5 Upgrade 12 for Solaris Java 5.0.011 for HP-UX Itanium see HP IBM 5.0.0.125 SR5, build pap32dev-20070511	
Java Tool for diagnostics	JUnit 3.8.1	
Optional RDMS Servers  Can use SAS for all data needs	MySQL GUI Tools Bundle for 5.0. if the database is not on this machine	

<sup>6</sup> A SAS/ACCESS product is required for each RDMS system.

# 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 × 1024 pixels screen area and True-Color (32-bit) display.

## Software Requirements

	Minimum	Preferred
Operating System	Windows XP Professional SP2 (32 bit) or Windows Vista (Enterprise, Business or Ultimate 32-bit editions) (32 bit) via 32-bit compatibility: Windows XP Professional x64 or Windows Vista x64	
Web Browser	Microsoft Internet Explorer 6.0 SP2	Microsoft Internet Explorer 7.0 SP2
Java	JRE 5 Update 15	
Java Diagnostic Tool	JUnit 3.8.1	
Optional Database software Pick the one for your database	Microsoft SQL Server 2005 Driver for JDBC and Microsoft SQL Server 2005 Client Tools MySQL Connector/J -5.0.8, or Oracle Database 11g Release 2 (10.2.0.4) JDBC Drivers and Oracle Database 11g Client Tools	

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