

System Requirements

SAS® Profitability Management 2.3

This document provides the requirements for installing and running SAS Profitability Management. This document has been updated for the first maintenance release of SAS Profitability Management 2.3 (2.3M1).

Update your computer to meet the minimum software and hardware requirements before installing SAS Profitability Management.

Deployment Options

SAS Profitability Management 2.3 can be installed on multiple servers that are running a supported Windows or UNIX operating system. The most complex deployment resembles the following:

- Server Machine 1: Web Application Server.
- Server Machine 2: Workspace Server, OLAP Server and Transaction Assignment Server.
- Server Machine 3: Metadata Server. This may be an existing SAS Metadata server.

The SAS Profitability Management client is only available on a Windows operating system. The following table summarizes the operating-system options that are available for the SAS Profitability Management Middle Tier.

Mid-Tier Architecture	Database	Web Server
Windows 2008 64-bit Windows 2012 64-bit Windows 2016 64-bit	SAS Datasets	SAS Web Application Server
Linux	SAS Datasets	SAS Web Application Server

For a mixed-machine architecture, contact SAS Technical Support.

SAS Profitability Management only supports SAS proprietary encryption.

Supported Operating Systems and Versions

For information about patch levels, use the menus to see support information for SAS 9.4 on the following web page: <http://support.sas.com/supportos/list>.

Windows Server Operating Systems

The following Windows operating systems are supported for the Server Tier:

- Microsoft Windows Server 2016 64-bit Standard, Datacenter, Essentials, and Foundation editions
- Microsoft Windows Server 2012 R2 64-bit Standard, Datacenter, Essentials, and Foundation
- Microsoft Windows Server 2012 64-bit Standard, Datacenter, Essentials, and Foundation
- Microsoft Windows Server 2008 R2 64-bit, SP1 or later Standard, Enterprise and Datacenter
- Microsoft Windows Server 2008 64-bit, SP2 or later Standard, Enterprise and Datacenter

In general, SAS Profitability Management only supports 64-bit operating systems when used as a server. However, one deployment topology supports a 32-bit operating system when not hosting SAS server software: running a thin client, the SAS Profitability Management web client, where only a supported web browser is required.

Windows Client Operating Systems

The following Windows operating systems are supported for the Client Tier:

- Windows 7 SP1 or later Professional, Ultimate, and Enterprise (32/64-bit)
- Windows 8 Pro and Enterprise (32/64-bit)

Linux Server Operating Systems

The following UNIX operating systems are supported for the Client Tier:

- Oracle Linux 6.1 and later on x64
- Red Hat Enterprise Linux 6, Update 1 and later on x64
- SUSE Linux Enterprise Server 11, SP1 and later on x64

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 that are described in this section are therefore 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 also increase. An upgrade to server hardware might eventually be required to achieve faster processing.

Server Hardware Requirements

The following table summarizes server hardware requirements:

Item	Minimum Level	Preferred Level
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: Dual Processor 64-bit, 2.0 GHz, 4 GB RAM, 200 GB 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) Middle-Tier Server: Dual Processor 64-bit, 2.0 GHz, 4 GB RAM or more, 100 GB of disk space</p> <p>2) Metadata Server ³: Dual Processor 64-bit, 2.0 GHz, 4 GB RAM or more, 100 GB of disk space</p> <p>3) Workspace Server, OLAP Server and Transaction Assignment Server: Quad-core processor (64-bit), 3.0 GHz, 8 GB RAM, 800 GB 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 on the types and number of analyses performed. Consult your sales representative or SAS Technical Support for more information.

- ² For larger transaction tables and/or a larger number of report viewers, consult SAS Technical Support.
- ³ For typical installations, the Metadata Server machine will be a computer that is shared among all installed SAS applications. A dedicated machine for SAS Profitability Management is not required.

Unified Server Hardware Requirements

The following table summarizes unified server hardware requirements:

Item	Minimum Level
Operating System	Windows Server or Linux Server
SAS Components	SAS Web Report Studio 4.31
SAS Servers	Base SAS 9.4M5 and SAS Metadata Server 9.4M5 and SAS Workspace Server 9.4M5 and SAS OLAP Server 9.4M5
Web Server	SAS Web Application Server 9.4M5
Java Runtime Environment (JRE)	A private JRE is provided by SAS and installed by the SAS Deployment Wizard
Java Diagnostic Tool	JUnit 4.9.1

For information about operating-system patch levels, use the menus to see support information for SAS 9.4 on the following web page: <http://support.sas.com/supportos/list>.

Middle-Tier (Web Application Server)

The following table summarizes requirements for the web application server:

Item	Minimum Level
Operating System	Windows Server or Linux Server
SAS Components	SAS Web Report Studio 4.31
Web Server	SAS Web Application Server 9.4M5
Java Runtime Environment (JRE)	A private JRE is provided by SAS and installed by the SAS Deployment Wizard
Java Diagnostic Tool	JUnit 4.9.1

Metadata Server Software Requirements

The following table summarizes software requirements for the Metadata Server:

Item	Minimum Level
Operating System	Windows Server or Linux Server
SAS Servers	Base SAS 9.4M5 and SAS Metadata Server 9.4M5
Java Runtime Environment (JRE)	A private JRE is provided by SAS and installed by the SAS Deployment Wizard

Workspace Server, OLAP Server and Transaction Assignment Server Software Requirements

The following table summarizes software requirements for the Workspace Server, OLAP server, and Transaction Assignment Server.

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

Item	Minimum Level
Operating System	Windows Server or Linux Server
SAS Servers	SAS Foundation 9.4M5 and SAS OLAP Server 9.4M5 and SAS Workspace Server 9.4M5 and SAS/ACCESS engine if you access any RDMS
Java Runtime Environment (JRE)	A private JRE is provided by SAS and installed by the SAS Deployment Wizard
Java Diagnostic Tool	JUnit 4.9.1

Client Requirements

Hardware Requirements

The following table summarizes client hardware requirements:

Item	Minimum Level	Preferred Level
Processor	2.0 GHz	2.0 GHz or faster
Memory	2 GB	2 GB or more
Hard Disk	4 GB available disk space with 2 GB available on the System drive	
Screen Resolution	1024x768 pixels screen area and High Color (16-bit) display	1280x1024 pixels screen area and True-Color (32-bit) display

Software Requirements

The following table summarizes client software requirements:

Item	Minimum Level	Preferred Level
Operating System	Windows Client	
Web Browser	As supported by SAS 9.4 ¹	As supported by SAS 9.4 ¹
Java Runtime Environment (JRE)	JRE 1.6.x or JRE 1.7.x (32-bit version)	
Java Diagnostic Tool	JUnit 4.9.1	

¹ For more information, refer to the list on the following page:
<http://support.sas.com/resources/thirdpartysupport/v94/browsers.html>

References

SAS Install Center (for documentation related to deployment):

<http://support.sas.com/documentation/installcenter/>

Third-Party Software Requirements:

<http://support.sas.com/resources/thirdpartysupport/v94/index.html>

For additional information, contact SAS 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.

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