

System Requirements

SAS® Marketing Optimization 5.41

This document provides minimum requirements for installing and running SAS Marketing Optimization software. You must update your system to meet the minimum requirements before running SAS Marketing Optimization software.

The major requirements listed in the document are:

- software requirements
- hardware requirements
- specific product requirements

For additional information and to view the latest system requirements for your system, please visit Install Center at <http://support.sas.com/documentation/installcenter/index.html> or 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.

Software Requirements

Locale

The SAS Marketing Optimization solution is supported in many countries and many languages but the system supports only one locale and language across any one solution installation.

Administrator Privilege

An installer must have administrator privilege to install various updates. This requirement ensures that SAS Marketing Optimization 5.41 can be completely and safely installed. SAS Marketing Optimization 5.41 is an application that can reside on multiple platforms.

System Requirements by Tier

SAS Marketing Optimization 5.41 is a multi-tier application consisting of client tier, middle tier and server tier deployments.

For information about requirements for third party software, please visit the SAS Third Party Support page, <http://support.sas.com/resources/thirdpartysupport/index.html>.

Client Tier

The SAS Marketing Optimization Client tier consists of the following client applications:

- SAS Marketing Optimization Client 5.41
- SAS Management Console 9.3

Your SAS Marketing Optimization package may also include the following SAS products:

- SAS Data Integration Studio 4.3
- SAS Information Map Studio 4.31
- SAS Query and Reporting Services 9.3
- SAS Add-In for Microsoft Office 4.31
- SAS OLAP Cube Studio 4.3
- SAS Enterprise Guide 4.31

Client Tier Operating System Support

The follow are the supported operating systems: (For patch levels, contact SAS Tech Support.)

- Microsoft Windows XP and Microsoft Windows Vista 32-bit products:
 - Microsoft Windows XP Professional
 - Microsoft Windows Vista - Enterprise, Business, and Ultimate Editions
- Microsoft Windows XP, Microsoft Windows Vista and Windows 7 64-bit products:
 - Microsoft Windows XP Professional for x64 systems
 - Microsoft Windows Vista for x64 systems - Enterprise, Business, and Ultimate Editions
 - Microsoft Windows 7 Enterprise Edition

Citrix Support for Clients

The Citrix XenApp Presentation Server 6.0 for Windows 2008 is supported for the SAS Customer Intelligence Studio 5.41 client only.

Note: Citrix support is for five or fewer concurrent users.

Other Client Tier Third Party Requirements

Adobe Reader is required on the Client Tier in order to be able to preview published reports.

Middle Tier

The SAS Marketing Optimization Middle Tier requires a Java application server.

The following SAS Marketing Optimization components will be installed on the Middle Tier:

- SAS Marketing Optimization Mid-Tier 5.41
- SAS Foundation Services 9.3
- SAS Web Infrastructure Platform 9.3

Your SAS Marketing Optimization package may also include the following SAS products:

- SAS Information Delivery Portal 4.31
- SAS Web Report Studio 4.31
- SAS Web Report Viewer 4.31

Middle Tier Operating System Support

Note: Windows is supported on the 64-bit editions only.

Supported operating systems are as follows: (For patch levels, please contact SAS Tech Support.)

- AIX, Release 5.3
- AIX, Release 6.1
- HP-UX 11i version 2, operating system release identifier B.11.23 for PA-RISC
- HP-UX 11i version 2, operating system release identifier B.11.23 / B.11.31 for HP-UX Itanium
- Linux for x64
 - Red Hat Enterprise Linux (RHEL) version 5
 - Novell SuSE SLES 11
- Solaris 10 for SPARC architecture with recommended Patch Cluster.
- Solaris 10 x64 (x64-86)
- Windows 2008 Server R2 for 64-bit editions
- Windows Server 2003 service pack 2 or higher
- Windows Server 2008 service pack 2 or higher

Middle Tier Java Application Server Support

The relevant Java Software Developer Kits (JDK) and the latest information and special instructions can be found in the Third Party Support web site:

<http://support.sas.com/resources/thirdpartysupport/v92/jdks.html>.

Operating Systems/ App Servers	JBoss Application Server	Oracle WebLogic	IBM WebSphere
Windows Server	✓	✓	✓
Linux	✓	✗	✓
Solaris 10	✓	✓	✓
AIX	✓	✓	✓
HP-UX	✓	✓	✗

- JBoss Application Server:
 - EAP 4.3 version
 - EAP 4.2 version
 - JBOSS 4.2 community edition*
 - EAP 5.1 version**
- WebLogic 10gR3 (10.3x)
- WebSphere
 - ND 6.1.0.21 and higher
 - ND 7.x

All of the above are 64-bit versions only; 32-bit versions are not supported.

* for conditions regarding support of JBoss community editions, please see the following site:

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

** To work on jboss 5.1 the following MO hot fix must be applied:

Product: **SAS Marketing Optimization 5.41** Hot Fix: **G05007**

Server Application Tier

SAS 9.3 servers run on the server tier to provide metadata, data, and compute services. The following applications are required on the SAS Server tier:

- SAS Foundation 9.3, including
 - Base SAS
 - SAS Metadata Server
 - SAS/ACCESS to PC Files
 - SAS/CONNECT
 - SAS/GRAPH
 - SAS Integration Technologies
 - SAS OLAP Server
 - SAS/OR
 - SAS/SHARE
 - SAS/STAT
- SAS Marketing Optimization Server 5.41
- SAS Foundation Services 9.3
- SAS Marketing Optimization Launcher 5.41
- SAS Management Console 9.3

Your SAS Marketing Optimization package may also include Platform Suite for SAS (formerly known as Platform Job Scheduler and Platform Process Manager).

Server Tier Operating System Support

Note: *Windows is only supported on the 64-bit editions.*

- AIX, Release 5.3
- AIX, Release 6.1
- HP-UX 11i version 2, operating system release identifier B.11.23 for PA-RISC
- HP-UX 11i version 2, operating system release identifier B.11.23/ B.11.31 for HP-UX Itanium
- Linux for x64
 - Red Hat Enterprise Linux (RHEL) version 5
 - Novell SuSE SLES 11
- Solaris 10 for SPARC architecture
- Solaris 10 x64 (x64-86)
- Windows 2008 Server for 64-bit editions with Service Pack 2 or higher
- Windows 2008 Server R2 for 64-bit editions
- Windows Server 2003 for 64-bit with Service Pack 2 or higher

For specific information about patch levels, please contact SAS Technical Support.

Database Support

SAS Marketing Optimization can connect to various databases using SAS/ACCESS. The following list contains the minimum versions of databases for which SAS Marketing Optimization 5.4 is compatible.

- Oracle 10g and 11g
- DB2/UDB Version 9.1, 9.5, 9.7
- SAS Data Sets Version 9.2 M3
- SPDS 4.52
- SQL Server 2008 Enterprise Edition
- Teradata Version 2, Release 12, 13

Hardware Requirements

Client Application Machine: Minimum Recommended

Intel or Intel-Compatible processor (minimum 1 GHz recommended)

Memory: 1 gigabyte or more for improved performance

Disk Space

Component	Installation Space Required
SAS Marketing Optimization Client	3 MB
Java Runtime Environment 1.5.0_12	82 MB
SAS Management Console 9.3	5 MB

Depending on the installed components, Jar files could take up to another 130MB.

Middle Tier Machine: Minimum Recommended

Memory

The minimum recommended memory for the Marketing Optimization Middle Tier is 8 Gigabytes. Memory requirements for optimal performance may vary based on the requirements of other applications running, number of total and concurrent users accessing the SAS Marketing Optimization Application Server applications and the amount of content accessed by the user.

Disk Space

Component	Installation Space Required
SAS Marketing Optimization Mid-Tier	200 MB
SAS Foundation Services 9.3	100 MB
SAS EBI Foundation	300 MB

This is the amount of disk space that the SAS Marketing Optimization setup directory requires. Additional space may also be required for new content and customization.

SAS Application Tier: Minimum Recommended

Intel or Intel-Compatible processor (minimum 2 GHz recommended). SAS Marketing Optimization supports multi-threaded processing.

Memory: 8 gigabyte minimum (16 GB recommended for improved performance)

In addition, the SAS working directory should be at least ten times the size of the input data sets, such that 500 –1000 GB are recommended.

For memory and disk space requirements please see SAS 9.3 system requirements located at <http://support.sas.com/resources/sysreq/index.html>, under the relevant operating system.

References

SAS Install Center

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

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