

System Requirements

SAS[®] Marketing Optimization 5.3

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, access the SAS Institute Web site at <http://support.sas.com/documentation/installcenter/index.html> or 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.

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 5.3 can be completely and safely installed. SAS Marketing Optimization 5.3 is an application that can reside on multiple platforms.

System Requirements by Tier

SAS Marketing Optimization 5.3 is a multi-tier application consisting of client tier, mid-tier and a server tier deployments.

3rd party site: <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 5.3
- SAS Management Console 9.2

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

- SAS Data Integration Studio 4.2
- SAS Information Map Studio 4.3
- SAS Query and Reporting Services 9.2
- SAS Add-In for Microsoft Office 4.3
- SAS OLAP Cube Studio 4.3
- SAS Enterprise Guide 4.3

Client Tier Operating System Support

- Microsoft Windows 32-bit products:
 - Microsoft Windows XP Professional, updated with Service Pack 2
 - Microsoft Windows Vista - Enterprise, Business, and Ultimate Editions
- Microsoft Windows x64 products:
 - Microsoft Windows XP Professional for x64 systems
 - Microsoft Windows Vista for x64 systems - Enterprise, Business, and Ultimate Editions
 - Microsoft Windows 7 – Enterprise Edition

Other Client Tier Third Party Requirements

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

Mid-Tier

The SAS Marketing Optimization Mid-Tier requires a Java application server.

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

- SAS Marketing Optimization Mid-Tier 5.3
- SAS Foundation Services 9.2
- SAS Web Infrastructure Platform 9.2

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

- SAS Information Delivery Portal 4.3
- SAS Web Report Studio 4.3
- SAS Web Report Viewer 4.3

Mid-Tier Java Application Server Support

The relevant Java 2 Software Developer Kit's (J2SDK) 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>.

The following table is a matrix of the Operating System and Mid-Tier Application servers that are supported for SAS Marketing Optimization 5.3. For more information on the operating systems, please see the "Mid-Tier Operating System Support" section below.

| Operating Systems/App Servers | JBoss Application Server | Oracle WebLogic | IBM WebSphere |
|--|--------------------------|-----------------|---------------|
| Windows Server 2003/2008 x64 Family | ✓ | ✓ | ✓ |
| Windows Server 2008 R2 | ✓ | ✓ | ✓ |
| Linux on x64 (Red Hat 5, Novell SuSE SLES 11) | ✓ | ✗ | ✓ |
| Solaris 10 on SPARC | ✓ | ✓ | ✓ |
| Solaris 10 on x64 | ✓ | ✓ | ✓ |
| AIX 6.1 | ✓ | ✓ | ✓ |
| HP-UX Itanium 11i v2 (11.23) 11i v3 (11.31) | ✓ | ✓ | ✗ |

- WebSphere
 - ND 6.1.0.21 and higher
 - ND 7.x
- WebLogic 10gR3 (10.3x)
- JBoss Application Server:
 - EAP 4.3 version
 - EAP 4.2 version
 - JBOSS 4.2 community edition*
 - -all of the above are 64-bit versions only, 32-bit versions are not supported

*please see the following URL for conditions regarding support of JBOSS community editions:
<http://support.sas.com/resources/thirdpartysupport/jbossSupport.html>

Mid-Tier Operating System Support

- Microsoft Windows Server 2003 x64 Family
 - Microsoft Windows Server 2003 for x64 systems, Standard Edition
 - Microsoft Windows Server 2003 for x64 systems, Enterprise Edition
 - Microsoft Windows Server 2003 for x64 systems, Datacenter Edition
- Microsoft Windows Server 2008 x64 Family
 - Microsoft Windows Server 2008 Standard Edition
 - Microsoft Windows Server 2008 Enterprise Edition
 - Microsoft Windows Server 2008 Datacenter Edition
- Windows 2008 Server R2 for 64-bit editions
- AIX, Release 6.1
- HP-UX Itanium 11i version 2, (11.23), 11i version 3 (11.31)

- Solaris 10 for SPARC architecture with recommended Patch Cluster.
- Solaris 10 for x64
- Linux for x64
 - Red Hat Enterprise Linux (RHEL) version 5
 - Novell SuSE SLES 11

For specifics on patch levels, please contact SAS Technical Support.

Server Tier

SAS 9.2 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 9.2, 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 5.3
- SAS Foundation Services 9.2
- SAS Marketing Optimization Launcher 5.3
- SAS Management Console 9.2

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

- Microsoft Windows Server 2003 x64 Family
 - Microsoft Windows Server 2003 for x64 systems, Standard Edition
 - Microsoft Windows Server 2003 for x64 systems, Enterprise Edition
 - Microsoft Windows Server 2003 for x64 systems, Datacenter Edition
- Microsoft Windows Server 2008 x64 Family
 - Microsoft Windows Server 2008 Standard Edition
 - Microsoft Windows Server 2008 Enterprise Edition
 - Microsoft Windows Server 2008 Datacenter Edition
- Windows 2008 Server R2 for 64-bit editions
- AIX, Release 6.1
- HP-UX Itanium 11i version 2, (11.23), 11i version 3 (11.31)
- Solaris 10 for SPARC architecture with recommended Patch Cluster.
- Solaris 10 for x64

- Linux for x64
 - Red Hat Enterprise Linux (RHEL) version 5
 - Novell SuSE SLES 11

For specifics on patch levels, please contact SAS Technical Support.

Database Support

SAS Marketing Optimization 5.3 can connect to various databases using SAS/ACCESS. The following list contains the minimum versions of databases for which SAS Marketing Optimization 5.3 is compatible.

- SAS Data Sets Version 9.2
- SPDS 4.4
- SQL Server 2005
- Oracle 11g
- DB2/UDB Version 5.5
- Teradata Version 2, Release 12

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 5.3 | 3 MB |
| Java Runtime Environment 1.5.0_12 | 82 MB |
| SAS Management Console 9.2 | 5 MB |

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

Mid-Tier Machine: Minimum Recommended

Memory: The minimum recommended memory for the Marketing Optimization mid-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 5.3 | 150 MB |
| SAS Foundation Services 9.2 | 84 MB |
| SAS EBI Foundation | 250 MB |

Additional space may also be required for new content and customization.

Review the system requirements of your application server for additional space and memory requirements.

Server Tier: Minimum Recommended

Intel or Intel-Compatible processor (minimum 2 GHz recommended). SAS Marketing Optimization 5.3 supports multi-threaded processing.

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

Disk Space:

| Component | Installation Space Required |
|---|------------------------------------|
| SAS Foundation 9.2 | 1.4 GB |
| SAS Foundation Services 9.2 | 84 MB |
| SAS Management Console 9.2 | 4 MB |
| SAS Marketing Optimization Server 5.3 | 100 MB |
| SAS Marketing Optimization Launcher 5.3 | 2 MB |

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

For memory and disk space requirements of other SAS products, please see SAS 9.2 System Requirements located at Install Center,

<http://support.sas.com/documentation/installcenter/922/index.html>, under the relevant operating system.

References

SAS Install Center

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

SAS 9.2 Foundation System Requirements for AIX

<http://support.sas.com/documentation/installcenter/en/ikfdtnr64sr/62124/PDF/default/sreq.pdf>

SAS 9.2 Foundation System Requirements for Linux for x64

<http://support.sas.com/documentation/installcenter/en/ikfdtnlaxsr/62147/PDF/default/sreq.pdf>

SAS 9.2 Foundation Systems Requirements for HP-UX

<http://support.sas.com/documentation/installcenter/en/ikfdtnh64sr/62126/PDF/default/sreq.pdf>

SAS 9.2 Foundation Systems Requirements for HP-UX for the Itanium Processor Family Architecture

<http://support.sas.com/documentation/installcenter/en/ikfdtnh61sr/61995/PDF/default/sreq.pdf>

SAS 9.2 Foundation System Requirements for Solaris for x64

<http://support.sas.com/documentation/installcenter/en/ikfdtnsaxsr/62150/PDF/default/sreq.pdf>

System Requirements for SAS 9.2 Foundation for Microsoft Windows

<http://support.sas.com/documentation/installcenter/en/ikfdtnwinsr/62187/PDF/default/sreq.pdf>

System Requirements for SAS 9.2 Foundation for Microsoft Windows for x64

<http://support.sas.com/documentation/installcenter/en/ikfdtnwx6sr/62191/PDF/default/sreq.pdf>

Third Party Software Requirements

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

SAS and all other SAS Institute product or service names are registered trademarks or trademarks of SAS Institute Inc. in the USA and other countries. Other brand and product names are registered trademarks or trademarks of their respective companies.

® indicates USA registration.

Copyright © 2011 SAS Institute Inc., Cary, NC, USA. All rights reserved.