

# System Requirements

## SAS® Marketing Automation 6.1

This document provides requirements for installing and running Marketing Automation software. You must update your system to meet the requirements before running SAS Marketing Automation software. The version of the SAS System required for Marketing Automation 6.1 is SAS 9.3 M2.

These are the major requirements listed in this document:

- software requirements
- hardware requirements
- database requirements

This document may be periodically updated. To see the latest version of this document, go to Install Center (<http://support.sas.com/installcenter/>).

## Software Requirements

### *Client Applications*

The SAS Marketing Automation 6.1 client tier includes the following client applications which may be all installed on the same machine or on separate client machines:

- SAS Marketing Automation Integration Utilities
- SAS Management Console 9.3
- SAS Information Map Studio 4.31
- SAS Data Integration Studio 4.6

SAS Customer Intelligence Studio is accessed via a supported web browser (see below).

Adobe Flasher Player 11.1 is required to use SAS Customer Intelligence Studio.

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

- SAS Enterprise Miner 6.2
- SAS Enterprise Guide 5.1
- SAS BI Dashboard 4.31
- SAS Add-In for Microsoft Office 4.31
- SAS OLAP Cube Studio 4.31

Supported operating systems are as follows (contact SAS Technical Support for patch levels):

- Windows XP 32-bit SP 2 or higher
- Windows XP 64-bit Professional Edition SP 2 or higher
- Windows Vista 32-bit Windows Vista 64-bit
- Windows 7 32-bit
- Windows 7 64-bit

## Presentation Virtualization Environments

Support for presentation virtualization environments (e.g. Citrix) for clients included with Marketing Automation is consistent with the SAS corporate support policy, which can be found at <http://support.sas.com/techsup/pcn/virtualization.html>.

Specific environment combinations should be reviewed by knowledgeable SAS professional services prior to deployment.

## Middle Tier Applications

The SAS Marketing Automation Application Server is a Java application. The application runs within a Java application server.

The following SAS Marketing Automation components will be installed on the middle tier:

- SAS Customer Intelligence Core Mid-Tier 6.1
- SAS Customer Intelligence Web Components 6.1
- SAS Customer Intelligence Reporting Mid-Tier 6.1
- SAS Foundation Services 9.3

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

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

Supported operating systems are as follows (contact SAS Technical Support for patch levels):

- AIX, Release 6.1
- AIX, Release 7.1
- HP-UX 11i version 3 (11.31), update 5 and above
- Linux (Red Hat Enterprise Linux 5 update 4 and Red Hat Enterprise Linux 6)
- Linux (SuSE Linux Enterprise Server 10 SP3 and 11)
- Solaris 10 Update 8 for SPARC architecture
- Solaris 11 and higher for SPARC Solaris 10 x64 (x64-86)
- Windows Server 2003 64-bit with Service Pack 2 or higher
- Windows Server 2008 64-bit with Service Pack 2 or higher
- Windows Server 2008 R2 64-bit

The relevant Java Software Developer Kit's (JDK) and the latest information and special instructions can be found on the Third Party Support Web site:

<http://support.sas.com/resources/thirdpartysupport/v93/jdks.html>

## Product Requirements

SAS Marketing Automation has the following Java application server software requirements:

- Both Java 6 and Java 7 are supported. Java 6 is provided by default with the application installer, while Java 7 requires additional installation steps.
- Jboss Community Edition 5.1 is supported for Java 6
- Jboss Community Edition 7.1.1 is supported for Java 7
- Jboss Enterprise Application Server 5.2 is supported for both Java 6 and Java 7
- WebLogic can be used on Windows, Solaris for SPARC architecture, HP-UX, Solaris x64 (x64-86), and AIX. WebLogic is not supported with Linux.

Operating Systems/ App Servers	JBoss Application Server 5.2	**Oracle WebLogic 11g (v10.3.x) and 12c	IBM WebSphere ND 7.0.x and 8.0.x
Windows Server	✓	✓	✓
Linux	✓	✗	✓
Solaris	✓	✓	✓
AIX	✓	✓	✓
HP-UX	✓	✓	✗

- Weblogic 11g (v10.3.x) is supported for both Java 6 and Java 7.
- Weblogic 12c is supported for Java 7.
- WebSphere ND (Network Deployment) can be used on AIX, Windows, Solaris for SPARC, Solaris for x64 (x64-86) and Linux. WebSphere ND is not supported on HP-UX.
- Websphere ND 8.0 is supported for Java 6.
- Websphere ND 8.5 is supported for Java 7.

**Note:** Additional information about the SAS corporate policy for Jboss Community Edition can be found here:  
<http://support.sas.com/resources/thirdpartysupport/jbossSupport.html>

## SAS Application Tier

SAS 9.3 servers provide metadata, data, and compute services. The following applications are required on the SAS Application Tier:

- SAS Foundation 9.3, including the SAS Metadata Repository and SAS Marketing Automation Processes
- SAS Marketing Automation Launcher 6.1
- SAS Management Console 9.3

The supported operating systems are as follows (contact SAS Technical Support for patch levels):

- AIX, Release 6.1
- AIX, Release 7.1
- HP-UX 11i version 3 (11.31), update 5 and above
- Linux (Red Hat Enterprise Linux 5 update 4 and Red Hat Enterprise Linux 6)
- Linux (SuSE Linux Enterprise Server 10 SP3 and 11)
- Solaris 10 Update 8 for SPARC architecture
- Solaris 11 and higher for SPARC
- Solaris 10 x64 (x64-86)
- Windows Server 2003 64-bit with Service Pack 2 or higher
- 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

## **Web Browser**

To use SAS Customer Intelligence Studio, a web browser must be installed on the client. Internet Explorer Version 8 and Version 9 are supported. Firefox Version 4 and higher are supported.

## **Hardware Requirements**

### ***Client Application Machine: Minimum Recommended***

- Modern Intel or AMD processor running at 2.33GHz or faster
- Memory:
  - 1 GB above your current environment (for both Adobe Flash and SAS CI Studio)
  - 128 MB graphical memory
- SAS Marketing Automation Disk Space: SAS Customer Intelligence Studio 350 MB above your current environment

### ***Mid-tier Machine: Minimum Recommended***

#### **Memory**

The minimum recommended memory for the SAS Marketing Automation mid-tier is 8 GB. Memory requirements for optimal performance may vary based on the requirements of other Web applications running, number of total and concurrent users accessing the SAS Marketing Automation Application Server applications, and the amount of content accessed by the user.

#### **Disk Space**

- SAS Marketing Automation Application Server: 300MB above your current environment
- SAS Marketing Automation Web Components: 300MB above your current environment
- SAS Customer Intelligence Reporting: 250MB above your current environment

This is the amount of disk space that the SAS Marketing Automation Server setup directory requires. Additional space may also be required for new content such as campaigns and reports.

Additional information regarding Capacity Planning and WebLogic Server Performance and tuning can be found in these locations:

[http://download.oracle.com/docs/cd/E12840\\_01/wls/docs103/perform/appc\\_capplan.html](http://download.oracle.com/docs/cd/E12840_01/wls/docs103/perform/appc_capplan.html)

[http://download.oracle.com/docs/cd/E12840\\_01/wls/docs103/perform/index.html](http://download.oracle.com/docs/cd/E12840_01/wls/docs103/perform/index.html).

### ***SAS Application Tier: Minimum 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.

## Specific Product Requirements

SAS Marketing Automation 6.1 can connect to various databases using SAS/ACCESS. The following is the list of versions of databases for which SAS Marketing Automation 6.1 is compatible.

- IBM DB2/UDB Version 9.1, 9.5, and 9.7

*Note:* IBM DB2/UDB is supported on AIX and Linux only.

- IBM Netezza Version 4.6, 6.0, 6.1, 7.0
- Microsoft SQL Server Version 2008, 2008 R2, and 2012 Enterprise Edition—only through SAS/ACCESS to OLE DB, not ODBC

*Note:* The OLE DB access engine runs only in a Windows environment, therefore support of SQL server is limited to the Windows platform.

- Microsoft SQL Server Version 2008, 2008 R2 and 2012 Standard Edition (no more than 10 million customer records) only through SAS/ACCESS to OLE DB, not ODBC

*Note:* The OLE DB access engine runs only in a Windows environment, therefore support of SQL server is limited to the Windows platform.

- Oracle 10g and 11g
- SAS Datasets Version 9.3 Maintenance 2

*Note:* SAS Datasets are not supported with use of the CI Common Reporting Data Model and no more than 5 million customer equivalent records.

- SAS Scalable Performance Data Server Version 4.53 (no more than 5 million customer records)
- Teradata Version 12, Version 13, Version 13.10, and Version 14

*Note:* Mixing of databases will not perform to an acceptable level and is not recommended.

## References

SAS Install Center

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

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