

System Requirements

SAS® Real-Time Decision Manager 5.4

This document provides minimum requirements for installing and running SAS Real-Time Decision Manager 5.4 software. You must update your system to meet the minimum requirements before running SAS Real-Time Decision Manager 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 Install Center 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

SAS Real-Time Decision Manager 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 Real-Time Decision Manager can be completely and safely installed.

System Requirements by Tier

SAS Real-Time Decision Manager is a multi-tier application consisting of client tier, mid-tier and a server tier deployments.

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

Client Tier

The SAS Real-Time Decision Manager client tier consists of the following client applications. They may be all installed on the same machine or on separate client machines.

- SAS Customer Intelligence Studio 5.4
- SAS Marketing Automation Integration Utilities
- SAS Customer Intelligence Plug-ins for SAS Management Console
- SAS Real-Time Decision Manager Plug-ins for SAS Management Console
- SAS Add-in for Microsoft Office 4.3
- SAS Management Console 9.2
- SAS Enterprise Guide 4.3

Client Tier Operating System Support

Supported operating systems for the client tier are as follows:

Microsoft Windows Vista and Microsoft Windows 7 32-bit products:

- Microsoft Windows 7 - Professional, Enterprise, and Ultimate Editions
- Microsoft Windows Vista - Enterprise, Business, and Ultimate Editions

Microsoft Windows Vista and Microsoft Windows 7 x64 products:

- Microsoft Windows 7 for x64 systems - Professional, Enterprise, and Ultimate Editions
- Microsoft Windows Vista for x64 systems - Enterprise, Business, and Ultimate Editions

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

Mid-Tier Applications

SAS Real-Time Decision Manager has two mid-tiers, the Operational Mid-Tier and the Design Mid-Tier. Both mid-tiers are J2EE applications that run within a J2EE application server.

The following components will be installed for each mid-tier:

- SAS Real-Time Decision Manager Operational Mid-Tier
 - SAS Real-Time Decision Manager Engine 5.4
 - SAS Customer Intelligence Core Mid-Tier
 - SAS Customer Intelligence Reporting Mid-Tier 5.4
 - SAS Customer Intelligence Web Components 5.4
 - SAS Web Report Studio 4.3
 - SAS Web OLAP Viewer for Java 4.3

- SAS Real-Time Decision Manager Design Mid-Tier
 - SAS Real-Time Decision Manager Design Mid-Tier 5.4
 - SAS Customer Intelligence Reporting Mid-Tier 5.4
 - SAS Customer Intelligence Core Mid-Tier 5.4
 - SAS Customer Intelligence Web Components 5.4
 - SAS Information Delivery Portal Web Application 2.1
 - SAS Web Report Studio 4.3
 - SAS Web OLAP Viewer for Java 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 Real-Time Decision Manager 5.4. For more specifics on the operating systems, please see the Mid-Tier Operating system support section.

Operating Systems/App Servers	IBM WebSphere ND 6.1.0.21 (Java 5)	IBM WebSphere ND 7.0.1 (Java 5)
Windows Server 2003/2008 32-bit	✘	✘
Windows Server 2003/2008 x64 Family	✓	✓
Linux on x64 (Red Hat 4, Novell SuSE SLES 9, 10)	✘	✘
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)	✘	✘

Product Requirements

- IBM WebSphere MQ 7.0.1 is required for the SAS Real-Time Decision Manager Operational Mid-Tier to communicate with the server tier. This can be installed on a separate server from both the mid-tier and the server tier.
- SAS Real-Time Decision Manager requires IBM WebSphere ND 6.1.0.21 or 7.0.1 for its J2EE application server.

Mid-Tier Operating System Support

- AIX, Release 6.1
- Solaris 10 for SPARC architecture with recommended Patch Cluster.
- Linux for x64
 - Red Hat Enterprise Linux (RHEL) version 5
 - Novell SuSE SLES 11
- 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 for x64 system, Standard Edition
 - Microsoft Windows Server 2008 for x64 systems, Enterprise Edition
 - Microsoft Windows Server 2008 for x64 systems, Datacenter Edition

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

Server Tier

SAS Real-Time Decision Manager Server runs on the back tier to provide data and compute services.

SAS Real-Time Decision Manager Server:

- SAS Customer Intelligence Processes 5.4
- SAS Real-Time Decision Manager Server Components 5.4
- SAS/GRAPH 9.2
- SAS/Stat 9.2
- SAS Integration Technology 9.2
 - SAS Stored Process Server 9.2
 - SAS Workspace Server (and Message Queue Polling Server) 9.2
- Base SAS 9.2
- SAS/ACCESS 9.2 (SAS/ACCESS Interface to Oracle, DB2, Microsoft SQL Server or Teradata)

Server Tier Operating System Support

- AIX, Release 6.1
- Solaris 10 for SPARC architecture with recommended Patch Cluster
- Linux for x64
 - Red Hat Enterprise Linux (RHEL) version 5
 - Novell SuSE SLES 11

- 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 for x64 system, Standard Edition
 - Microsoft Windows Server 2008 for x64 systems, Enterprise Edition
 - Microsoft Windows Server 2008 for x64 systems, Datacenter Edition

SAS Metadata Server 9.2

SAS Metadata Server can be installed on a separate server from the SAS Real-Time Decision Manager Server.

SAS Metadata Server supports:

- AIX, Release 6.1
- HP-UX Itanium 11i version 2, (11.23), 11i version 3 (11.31)
- HP-UX PA-RISC 11i version 2, (11.23), 11i version 3 (11.31)
- Solaris 10 for SPARC architecture with recommended Patch Cluster.
- Solaris 10 for x64
- Linux 32-bit
 - Red Hat Enterprise Linux (RHEL) version 5
 - Novell SuSE SLES 11
- Linux for x64
 - Red Hat Enterprise Linux (RHEL) version 5
 - Novell SuSE SLES 11
- Microsoft Windows XP and Microsoft Windows Vista 32-bit products:
- Microsoft Windows XP Professional, updated with Service Pack 2
- Microsoft Windows Vista - Enterprise, Business, and Ultimate Editions
- Microsoft Windows on Itanium
 - Microsoft Windows Server 2008 for Itanium-based Systems edition with SAS 9.2 TS Level 2M2.
 - Microsoft Windows Server 2003 for Itanium-base systems:
 - Enterprise Edition updated with Service Pack 1
 - Datacenter Edition updated with Service Pack 1
- Microsoft Windows Server 2003 32-bit Family

Note: SAS recommends that users with Microsoft Windows Server 2003 install the Microsoft software update that is available at:

<http://www.microsoft.com/downloads/details.aspx?familyid=17c36612-632e-4c04-9382-987622ed1d64&displaylang=en>.

 - Microsoft Windows Server 2003, Standard Edition updated with Service Pack 1
 - Microsoft Windows Server 2003, Enterprise Edition updated with Service Pack 1
 - Microsoft Windows Server 2003, Datacenter Edition updated with Service Pack 1

- 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 32-bit Family
 - Microsoft Windows Server 2008 Standard Edition
 - Microsoft Windows Server 2008 Enterprise Edition
 - Microsoft Windows Server 2008 Datacenter Edition
- Microsoft Windows Server 2008 x64 Family
 - Microsoft Windows Server 2008 for x64 system, Standard Edition
 - Microsoft Windows Server 2008 for x64 systems, Enterprise Edition
 - Microsoft Windows Server 2008 for x64 systems, Datacenter Edition

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

Hardware Requirements

Client Application Machine: Minimum Recommended

- Intel or Intel-Compatible Pentium class processor running at 2 GHz or faster
- Memory: 1GB or more above your current environment
- Disk Space for Customer Intelligence Studio 350 MB above your current environment

Mid-Tier Machine: Minimum Recommended

Memory

- SAS Real-Time Decision Manager Operational Mid-Tier 3 GB minimum
- SAS Real-Time Decision Manager Design Mid-Tier 3 GB minimum

Memory requirements for optimal performance may vary, and should be determined based on consultation with SAS.

Requirements for the Operational Mid-Tier will vary based on the number of requests from other systems and the number of processes that are running concurrently.

Requirements for the Design Mid-Tier will vary based on the requirements of other Web applications, number of total and concurrent users accessing server, and the amount of content accessed by the user.

Disk Space

- SAS Real-Time Decision Manager Operational Mid-Tier 40 GB
- SAS Real-Time Decision Manager Design Mid-Tier 40 GB

These are the amount of disk space that the SAS Real-Time Decision Manager Server set-up directories may require. Additional space may also be required for new content and customization.

Additional disk space will be required for third party software. Possible third party software that may be required based on your configuration are:

- Oracle Client
- WebSphere MQ
- WebSphere Application Server
- HTTP server

Server Tier: Minimum Recommended

For memory and disk space requirements please see SAS 9.2 system requirements located at:

<http://support.sas.com/resources/sysreq/92/index.html>

under the relevant operating system.

Specific Product Requirements

SAS Real-Time Decision Manager 5.4 is compatible with Oracle version 10g and 11g, DB2/UDB version 9.5 and 9.7, Microsoft SQL Server 2008 and Teradata 13. Should there be a new release, it is worth contacting Technical Support in order to clarify if SAS has tested against that version.

References

SAS Technical Support Install Center

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

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 © 2010 SAS Institute Inc., Cary, NC, USA. All rights reserved.