

System Requirements

SAS[®] Real-Time Decision Manager 5.41

This document provides minimum requirements for installing and running SAS Real-Time Decision Manager 5.41 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

The information in this document is current as of March 2012. 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

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, middle tier, and server tier deployments.

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 5.41
- 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 5.1
- SAS Management Console 9.3
- SAS Enterprise Guide 5.1

Client Tier Operating System Support

Supported operating systems for the client tier are as follows:

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

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

Microsoft Windows Vista and Microsoft Windows 7 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

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

Middle Tier Applications

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

The following components will be installed for each middle tier:

SAS Real-Time Decision Manager Operational Middle Tier

- SAS Decision Services Operational Mid-Tier 5.41
- SAS Customer Intelligence Web Components 5.41
- SAS Customer Intelligence Core Mid-Tier 5.41
- SAS Customer Intelligence Reporting Mid-Tier 5.41
- SAS Web Report Studio
- SAS Web Parts for Microsoft SharePoint

SAS Real-Time Decision Manager Design Middle Tier

- SAS Decision Services Design Mid-Tier 5.41
- SAS Customer Intelligence Web Components 5.41
- SAS Customer Intelligence Core Mid-Tier 5.41
- SAS Customer Intelligence Reporting Mid-Tier 5.41
- SAS Web Report Studio
- SAS Web Parts for Microsoft SharePoint

Middle Tier Java Application Server Support

SAS Real-Time Decision Manager has the following Java Application Server software requirements:

Operating System/ Application Server	JBoss Application Server	WebSphere Application Server
Windows Server	✓	✓
Linux	✓	✓
Solaris 10 SPARC	✓	✓
Solaris 10 x64	✓	✓
AIX	✓	✓
HP-UX	✓	✗

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/v93/jdks.html>

SAS Real-Time Decision Manager requires IBM WebSphere ND 7.0.0.1 or higher for its J2EE application server; IBM WebSphere ND 6.1.0.21 is not supported.

JBoss Enterprise Application Platform Version 5.1 can be used for Linux (Redhat Enterprise Version 5 and Novell SuSE SLES Version 11), Windows 2003 , Windows 2008, Windows 2008 R2, Solaris 10 for SPARC, Solaris 10 x86 (x64-86), HP-UX11i version 2, and AIX 6.1 and 7.1.

Note: Please see the following for conditions regarding support of JBOSS community editions:

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

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

Mid-Tier Operating System Support

- AIX, Release 6.1 and 7.1
- HP-UX 11i version 2, operating system release identifier and B.11.31 for HP-UX Itanium
- Solaris 10 for SPARC architecture with recommended Patch Cluster
- Solaris 10 x64
- 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 R2 x64 Family
 - Microsoft Windows Server 2008 R2 for x64 system, Standard Edition
 - Microsoft Windows Server 2008 R2 for x64 systems, Enterprise Edition
 - Microsoft Windows Server 2008 R2 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 Real-Time Decision Manager Server 5.41
- SAS Decision Server 5.41
- SAS BI Lineage Scheduling Server 4.31
- SAS BI Lineage Plug-in for SAS Management Console 4.31
- SAS Integration Technologies 9.3
- SAS Framework Data Server 2.2
- DataFlux Standard Federation Server 2.1.3
- DataFlux Authentication Server 2.1.3
- Base SAS 9.3
- SAS/STAT 9.3
- SAS/GRAPH 9.3
- SAS/Access 9.3 (SAS/ACCESS Interface to Oracle, DB2, Microsoft SQL Server, or Teradata)

DataFlux Federation Server

DataFlux Federation Server can be installed on the same machine as SAS Real-Time Decision Manager Server or on a separate server.

- DataFlux Standard Federation Server
- DataFlux Driver for Base SAS
- DataFlux Driver of choice (DataFlux Driver for DB2, Oracle, Microsoft SQL Server, or Teradata)

DataFlux Authentication Server

DataFlux Authentication Server can be installed on the same machine as SAS Real-Time Decision Manager Server or on a separate server.

Server Tier Operating System Support

- AIX, Release 6.1 and 7.1
- HP-UX 11i version 2, operating system release identifier and B.11.31 for HP-UX Itanium
- 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
- 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 R2 x64 Family
 - Microsoft Windows Server 2008 R2 for x64 system, Standard Edition
 - Microsoft Windows Server 2008 R2 for x64 systems, Enterprise Edition
 - Microsoft Windows Server 2008 R2 for x64 systems, Datacenter Edition

SAS Metadata Server 9.3

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 and 7.1
- 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 systems, 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

Middle Tier Machine: Minimum Recommended

Memory

- SAS Real-Time Decision Manager Operational Middle Tier 4 GB minimum
- SAS Real-Time Decision Manager Design Middle Tier 4 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 Middle Tier 40 GB
- SAS Real-Time Decision Manager Design Middle Tier 40 GB

These describe the 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. The following is a list of possible third party software that may be required based on your configuration:

- database client
- application server
- HTTP server

Server Tier: Minimum Recommended

SAS Real-Time Decision Manager and DataFlux Memory

- SAS Real-Time Decision Manager Server 4 GB minimum
- DataFlux Federation Server 1 GB minimum
- DataFlux Authentication Server 1 GB minimum

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

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

SAS Real-Time Decision Manager and DataFlux Disk Space

- SAS Real-Time Decision Manager Server-Tier 40 GB
- DataFlux Federation Server 1 GB
- DataFlux Authentication Server 1 GB

These describe the disk space that the SAS Real-Time Decision Manager Server, DataFlux Federation Server, and DataFlux Authentication 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 includes a database client.

SAS System Memory and Disk Space

For memory and disk space requirements, please see SAS 9.3 system requirements located at:

http://support.sas.com/idsearch?ct=203006&qt=contenttype:%22System+Requirements%22++spr:%229.3qq_%22&qm=3&la=en&col=supprd&s1=3

under the relevant operating system.

Specific Product Requirements

SAS Real-Time Decision Manager 5.41 is compatible with Oracle versions 10g and 11g, DB2/UDB versions 9.5 and 9.7, Microsoft SQL Server 2008 Enterprise Edition, and Teradata version 2, release 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>

Third Party Software Requirements

<http://support.sas.com/resources/thirdpartysupport/v93/othersw.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.