System Requirements

SAS® Enterprise GRC 4.2

Overview

This document provides minimum requirements for installing and running SAS Enterprise GRC 4.2 software, which includes Administrative Tools, a Web Application, and Reporting. SAS Enterprise GRC 4.2 requires SAS 9.2M3.

The major requirements listed in this document include:

- software requirements
- hardware requirements
- database requirements

The information in this document is current as of the release date of SAS Enterprise GRC 4.2. For additional information and to view the latest system requirements for your system, access the following SAS Institute Web site:

http://support.sas.com/documentation/installcenter/922/index.html

Additional information about third-party products is available at http://support.sas.com/resources/thirdpartysupport/v92m3/index.html.

For SAS’s policy on supporting updates to third party products, see the SAS Third Party Software Requirements – Baseline and Higher Support document.

Software Requirements

Client-Tier Requirements

SAS Enterprise GRC 4.2 supports the following Web browsers:

- Internet Explorer
- Firefox

For information about the supported operating systems and minimum version requirements of Web browser software for SAS 9.2, see the “References” section at the end of this document.

Mid-Tier Requirements

SAS Enterprise GRC 4.2 supports the following application servers:

- BEA WebLogic Server
• IBM WebSphere Application Server Network Deployment
  o IBM WebSphere Base is not supported.
• JBoss Application Server

SAS Enterprise GRC 4.2 supports the following operating systems:
• Microsoft Windows
• Microsoft Windows for x64
• Solaris
• Solaris for x64
• Linux for x64
• AIX
• HP-UX for the Itanium Processor Family Architecture

SAS Enterprise GRC 4.2 depends on SAS Shared Services for various components. For example, SAS Workflow is delivered with the SAS Intelligence Platform as a component of SAS Shared Services. In addition, SAS Enterprise GRC uses SAS Content Server for storing files in the WebDAV repository.

**Recommendation for SAS Shared Services Database**

SAS Enterprise GRC requires that you use PostgreSQL, IBM, DB/2, or Oracle as your RDBMS. Therefore, it is recommended that you also configure the SAS Shared Services database on the same RDBMS that you configure for SAS Enterprise GRC. Doing this provides better system performance.

Version numbers as well operating system specific details are available in the SAS 9.2 system requirements. See the “References” section at the end of this document.

**SAS Application Tier Requirements**

SAS 9.2 servers run on the back tier to provide metadata, data and compute services. The following applications are required on the SAS Application Tier:
• SAS Foundation 9.2
• Base SAS
• SAS/ACCESS engine of choice (Oracle, DB/2 or ODBC)
• SAS/GRAPH
• SAS Enterprise GRC Server

SAS Enterprise GRC 4.2 supports the following operating systems:
• Microsoft Windows
• Microsoft Windows for x64
• Solaris
• Solaris for x64
• Linux for x64
• AIX
• HP-UX for the Itanium Processor Family Architecture
Operating system version numbers are available in the SAS 9.2 system requirements. See the “References” section at the end of this document.

Hardware Requirements

Basic Installation Requirements

<table>
<thead>
<tr>
<th>Product</th>
<th>Installation Space Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAS Enterprise GRC Server</td>
<td>25 MB</td>
</tr>
<tr>
<td>SAS OpRisk Monitor Administrative Tools</td>
<td>25 MB</td>
</tr>
<tr>
<td>SAS OpRisk Monitor Mid-Tier</td>
<td>300 MB</td>
</tr>
</tbody>
</table>

Note: The formal name of this product is changing, over time, from SAS OpRisk Monitor to SAS Enterprise GRC. You will see variations in product names until the name change is complete. Please do not let the name change be a cause for confusion.

Mid-Tier Requirements

Memory

A minimum of 4 GB of storage is recommended for SAS Enterprise GRC 4.2 on a Mid-Tier system.

Database Requirements

SAS Enterprise GRC supports the following versions of Oracle, DB/2 and PostgreSQL.

- Oracle 9, 10 and 11 are supported
  SAS Enterprise GRC requires a JDBC jar file from each database vendor that is suitable for the version of Java being used by the Application Server (JBoss, WebLogic or WebSphere). Suitable JDBC jar files will be installed with your Oracle Client & Server. Alternatively, you can download Oracle drivers from http://www.oracle.com/technology/software/tech/java/sqlj_jdbc/index.html. The JDBC driver version must match the database version. For example, do not use a 10.x driver with a version 11 database.
• **DB/2 9**
  SAS Enterprise GRC requires the `db2jcc.jar` and `db2jcc_license_cu.jar` files. For example, a Windows installation of DB/2 stores the `.jar` files in `C:\Program Files\IBM\SQLLIB\java` by default.

• **PostgreSQL 8.4+**
  *Note: PostgreSQL is not supported on Windows (64-bit x86-64).*
  SAS Enterprise GRC uses the `postgresql-9.0-801.jdbc3.jar` PostgreSQL driver. It is located in the `jdbc` subdirectory of your PostgreSQL installation. This is a newer version of PostgreSQL than the version supported by the last release of SAS Enterprise GRC so you may need to upgrade your version of PostgreSQL. If you need to upgrade to the more recent version, please see the directions provided at [http://www.postgresql.org/docs/8.4/static/install-upgrading.html](http://www.postgresql.org/docs/8.4/static/install-upgrading.html)

**References**

SAS Technical Support Install Center

[http://support.sas.com/techsup](http://support.sas.com/techsup)

Third Party Software Requirements

[http://support.sas.com/resources/thirdpartysupport/v92m3/index.html](http://support.sas.com/resources/thirdpartysupport/v92m3/index.html)