

System Requirements for SAS[®] 9.2 Foundation for Microsoft[®] Windows[®] for x64



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Using the System Requirements

This document provides requirements for installing and running SAS 9.2 Foundation on Microsoft Windows for x64. You must update your system to meet the minimum requirements before running SAS 9.2 Foundation.

These are the major requirements listed in the document:

- Software Requirements
- Hardware Requirements
- Additional Features
- Space Requirements
- Specific Product Requirements
- Graphics Hardware and Software Compatibility

For additional information and to view the latest system requirements for your system, visit the SAS Install Center website, <http://support.sas.com/documentation/installcenter>.

Resources for Other Windows Deployments

For information about SAS 9.2 Foundation in other Windows editions, refer to *System Requirements for SAS 9.2 Foundation for Microsoft Windows* and *System Requirements for SAS 9.2 Foundation for Microsoft Windows for 64-Bit Itanium-based Systems*. These documents are available from the SAS Install Center, <http://support.sas.com/documentation/installcenter>.

SAS Technical Support

For information about SAS Technical Support, visit <http://support.sas.com/techsup/>.

Software Requirements

Preparing for Installation

Administrator Privilege

An installer must have administrator privilege to install various updates. This requirement ensures that SAS 9.2 Foundation can be completely and safely installed.

Anti-virus and/or Firewall Software

Before you start the System Requirements Wizard, it is recommended that you close your anti-virus and firewall software. Some anti-virus and/or firewall configurations can prevent an application from installing successfully.

If you are unable to close the anti-virus or firewall software, make sure that your configuration allows you to install software and to update the registry. If your SAS installation fails and you have mandatory anti-virus or firewall software running, check with your system administrator.

Windows for x64 Environments

SAS 9.2 Foundation is supported in the following environments:

Server Operating Systems

Microsoft Windows Server 2008 Family

SAS 9.2 Foundation is supported on the following x64 editions of the Windows Server 2008 family with SAS 9.2 TS Level 2M2 and higher:

- Microsoft® Windows® Server 2008 Standard Edition
- Microsoft® Windows® Server 2008 Enterprise Edition
- Microsoft® Windows® Server 2008 Datacenter Edition

SAS 9.2 Foundation is supported on the following x64 editions of the Windows Server 2008 R2 family with SAS 9.2 TS Level 2M3 and higher:

- Microsoft® Windows® Server 2008 R2 Standard Edition
- Microsoft® Windows® Server 2008 R2 Enterprise Edition
- Microsoft® Windows® Server 2008 R2 Datacenter Edition

Microsoft Windows Server 2003 Family

SAS 9.2 Foundation is supported on the following x64 editions of the Windows Server 2003 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

Client Operating Systems

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

File System Requirements

- The 8.3 filename convention must remain enabled. The use of file systems supporting long filenames is recommended.

SAS Support for Windows 7

Windows 7 Professional, Ultimate, and Enterprise: Supported in SAS 9.2 Foundation products.

Windows 7 Home Premium: Supported for the Education Analytical Suite (EAS). These are the Education Analytical Suite products that are supported on Windows 7:

Note: These products are not supported individually on Windows 7 Home Premium.

- Base SAS
- SAS/ACCESS Interface to Greenplum (included Oct2009 ship event)
- SAS/ACCESS Interface to Informix
- SAS/ACCESS Interface MySQL
- SAS/ACCESS Interface to MS SQL Server
- SAS/ACCESS Interface to ODBC
- SAS/ACCESS Interface to PC Files
- SAS/ACCESS Interface to Sybase
- SAS/AF
- SAS/ASSIST
- SAS/CONNECT
- SAS/EIS
- SAS/ETS
- SAS/FSP
- SAS/GRAPH
- SAS/IML
- SAS/INSIGHT
- SAS/LAB
- SAS/OR
- SAS/QC
- SAS/SECURE
- SAS/SHARE
- SAS/STAT

Supported Operating Environments for Windows

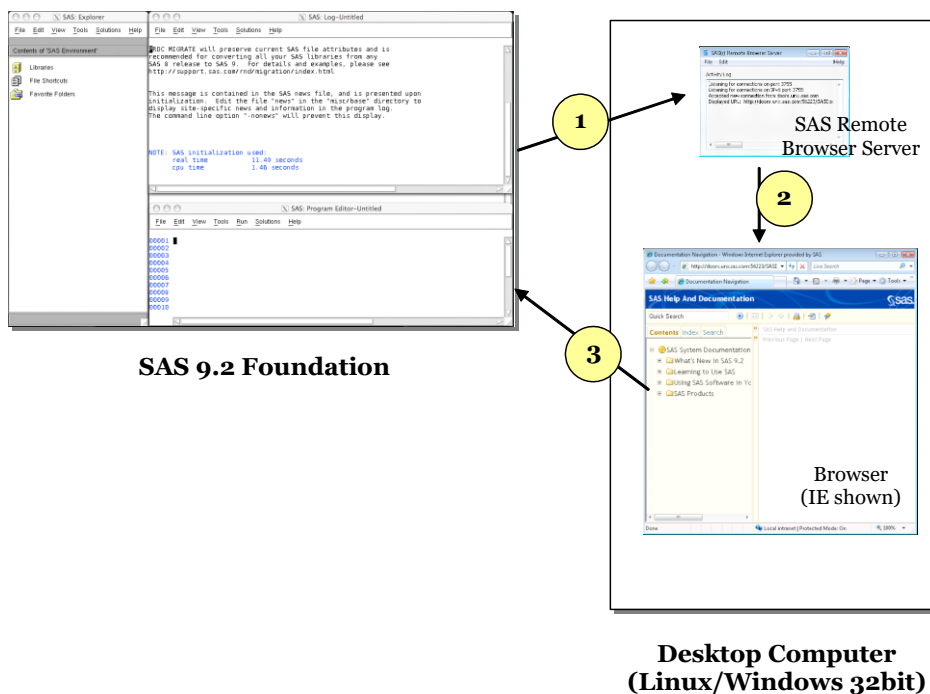
For more information about the Microsoft Windows operating systems that are supported in SAS 9.2, refer to the following SAS Knowledge Base / System Requirements,

<http://support.sas.com/resources/sysreq/hosts/pc/>.

Web Browsers

SAS 9.2 Foundation uses a new system, Remote Browsing, for displaying Web-based information. Instead of running a browser on the workstation, SAS 9.2 Foundation sends the URL to your desktop computer for display in a Web browser. This removes the browser overhead from the server. This also allows display of output that requires browser plug-ins that do not run on a 64-bit computer. A small software agent named the Remote Browser Server is installed on your desktop computer to enable SAS to communicate with your browser. The process is illustrated below.

SAS creates a URL that references the information to be displayed (ODS output), then sends the URL to the SAS Remote Browser Server on your desktop computer (step 1). The Remote Browser Server then sends a request to the browser to display a page (step 2). The browser then reconnects to SAS to retrieve the information to be displayed and displays it in the browser (step 3).



To use remote browsing, your desktop computer must be one of the following platforms, and have installed one of the supported browsers.

| Platform | Supported Browser |
|-------------------------|---|
| Windows XP/Vista 32-bit | Firefox 3.0.6 |
| | Internet Explorer 6 with SP2 or Internet Explorer 7 |
| Linux | Firefox 3.0.6 |

The Remote Browser Server must be installed and running for SAS to display web information. The installer for the Remote Browser Server can be found on the SAS Support website (see <http://support.sas.com/documentation/configuration/thirdpartysupport/v92/thirdparty92.html>), or it can be directly downloaded from a SAS session.

For SAS to be able to use your web browser, the browser must be configured to allow pop-up windows.

Hardware Requirements

SAS 9.2 Foundation on Microsoft Windows for x64

Note the following requirements for installation of SAS 9.2 Foundation for x64 editions of Windows.

Machines Supported

x64 processor family systems, also known as Intel64 or AMD64 systems.

Memory Requirements

The following requirements must be met for a deployment of SAS 9.2 for x64 on Windows for x64 systems:

Windows XP Professional

- 512 MB minimum or more for improved performance
- 512 MB minimum of swapfile space

Supported Editions of Windows Server 2003, Windows Server 2008, Windows Vista, and Windows 7

- 1 GB minimum (more memory is recommended for improved performance)
- 1 GB minimum of swapfile space

Monitors Supported

SVGA (resolution of 800x600 or higher)

Additional Features

The User Installation Experience in SAS 9.2

If you are upgrading to SAS 9.2 Foundation, note that some of these features were not available in earlier releases of SAS software.

Internet Access

With Internet access, you can view and download documents from the SAS Install Center, and review material on the SAS Support Web site.

HTMLHelp Viewer

To conform to the native Windows environment, SAS Help and Documentation is provided in the compiled HTML format supported by the Microsoft HTML Help Viewer, which presents help information in the same layout used in Windows applications. This format is very compact and provides extensive searching capabilities. The highest level of functionality is available when Internet Explorer, Version 6, Service Pack 2 (or higher) is installed. Internet Explorer is provided with Windows Server.

SAS Universal Viewer

SAS Universal Viewer is an application for the Windows environment that serves as a *lightweight viewer* for SAS data files and other simple text-based files. The application lets you view the contents of SAS data files without using SAS and without requiring SAS 9.2 Foundation to be installed on your machine. You may distribute this application royalty-free in order to give other people the ability to view your SAS data.

SAS Universal Viewer lets you view the following types of SAS data sets and SAS catalogs, which can reside on a local or network disk:

- SAS data sets generated by SAS 9, SAS 9.1.3, or SAS 9.2 Foundation for Windows.
- SAS data sets generated by Version 8 of the SAS System for Windows.
- SAS data sets generated by any Version 6 release of the SAS System for Windows, OS/2, or DOS.

These data sets can be compressed and/or encrypted. If you attempt to access an encrypted data set, the SAS Universal Viewer prompts you for the Read password.

- SAS catalogs created by the SAS System for Windows or OS/2 generated by Release 6.04 through Release 6.12.
- SAS programs (.sas files), output listings (.lst files), logs (.log files), configuration files (.cfg files).
- Files created by SAS Institute's JMP product (.jmp files) that reside on a local or network disk.
- Other simple (ASCII) text-based files.
- HTML pages, such as output rendered by SAS 9 or SAS 9.2 Foundation.

You can also view cross-platform Version 6 data sets and catalogs (OpenVMS, MacOS, UNIX, OS/2, Windows, and DOS) that you can access from a disk, file server, or using the HTTP and FTP network protocols.

Installation of SAS Universal Viewer requires about 4.8 MB of disk space. For more information about SAS Universal Viewer, see the *User's Guide for SAS Universal Viewer*.

Dynamic Data Exchange

Dynamic Data Exchange (DDE) allows for the exchange of data between SAS 9.2 Foundation and any other application supporting DDE. SAS 9.2 Foundation will act as a client only.

Electronic Mail

Send Mail... is provided as a menu item in the File pull-down menu. Send Mail... allows electronic mail messages to be initiated from SAS 9.2 Foundation. It is also possible to send mail using a data step file access method or SCL via SAS/AF software. The following mail APIs are supported - MAPI and VIM. This requires installation of third party products such as Microsoft Outlook or Microsoft Outlook Express. SMTP email server access via MAPI requires an Internet connection.

Java Runtime Environment

- Use SAS JRE 1.5.0_12 for supported versions of Windows XP, Windows Server 2003, Windows Vista, and Windows Server 2008.
- Use SAS JRE 1.6.0_14 for Windows 7 and the Sun JRE 1.6.0_23 for Windows Server 2008 R2. For more information, refer to Installation Note 40501: "SAS 9.2 requires JRE 1.6.0_14 32-bit (or later release) in a Microsoft Windows 7 or Microsoft Windows Server 2008 R2 operating environment" at <http://support.sas.com/kb/40/501.html>.

SAS Service Configuration Utility

The SAS Service Configuration Utility allows administrators to customize the operation of SAS 9.2 Foundation running as a service on a particular computer. It requires only 0.5 MB of space on the computer using the SAS Service Configuration Utility.

For additional information, refer to the SAS Service Configuration Utility chapter in *Configuration Guide for SAS 9.2 Foundation on Microsoft Windows for x64*.

Space Requirements

The media you received contains all SAS software products. This media is customized by the SAS Installation Data for easy identification of the products for which you are licensed. The following list contains space requirements in MB for all of the products available with SAS 9.2 Foundation for Windows. Use this information to help you determine how much free disk space you must have available before you can install SAS 9.2 software. Disk space requirements will vary depending upon the blocking factor and compression algorithms that are in use on the installation disk drive. Product disk space values were determined with the HTMLHelp System in use.

| Software Product | Disk Space (in MB) |
|---|--------------------|
| Base SAS Software | 795.5 |
| Report Fonts Software | 359.9 |
| SAS Credit Scoring Software | 1.0 |
| SAS Data Quality Server Software | 40.9 |
| SAS Install Qualification Tool Software | 3.6 |
| SAS Integration Technologies Software | 77.0 |
| SAS Integration Technologies Client Software | 27.5 |
| SAS OLAP Server Software | 8.9 |
| SAS Providers for OLE DB Software | 19.1 |
| SAS Scalable Performance Data Client Software | 0.9 |
| SAS Table Server Software | 33.6 |
| SAS/ACCESS Interface to DB2/UDB Software | 1.1 |
| SAS/ACCESS Interface to MySQL Software | 0.7 |
| SAS/ACCESS Interface to Netezza Software | 0.9 |
| SAS/ACCESS Interface to ODBC Server Software | 1.3 |
| SAS/ACCESS Interface to OLE DB Software | 1.0 |
| SAS/ACCESS Interface to Oracle Software | 1.5 |
| SAS/ACCESS Interface to PC Files Software | 10.4 |
| SAS/ACCESS Interface to R/3 Software | 5.6 |
| SAS/AF Software | 5.3 |
| SAS/ASSIST Software | 20.5 |
| SAS/CONNECT Software | 3.3 |
| SAS/EIS Software | 25.6 |
| SAS/ETS Software | 71.7 |

| Software Product | Disk Space (in MB) |
|---|--------------------|
| SAS/FSP Software | 2.2 |
| SAS/Genetics Software | 7.7 |
| SAS/GIS Software | 64.1 |
| SAS/GRAPH Software | 548.5 |
| SAS High-Performance Forecasting Software | 15.4 |
| SAS/IML Software | 23.9 |
| SAS/INSIGHT Software | 18.1 |
| SAS/IntrNet Software | 6.5 |
| SAS/LAB Software | 8.8 |
| SAS/OR Software | 52.1 |
| SAS/QC Software | 126.0 |
| SAS/SECURE Software | 1.0 |
| SAS/Secure SSL Software | 0.2 |
| SAS/SHARE Software | 1.3 |
| SAS/STAT Software | 160.3 |
| SAS/TOOLKIT Software | 5.9 |

DBCS Support

The following list contains space requirements in MB for SAS 9.2 components that offer DBCS support.

| Software Product- DBCS Support | Disk Space (in MB)* |
|---|---------------------|
| Core of SAS 9.2 DBCS Support Files | 34.0 |
| SAS/ACCESS Interface to DB2 DBCS Support Files | 0.9 |
| SAS/ACCESS Interface to Oracle DBCS Support Files | 0.3 |
| SAS/AF DBCS Support Files | 0.5 |
| SAS/CONNECT DBCS Support Files | 1.1 |
| SAS/EIS DBCS Support Files | 0.4 |
| SAS/Lab | 1.9 |
| SAS/SHARE DBCS Support Files | 0.1 |
| Total | 39.20 |

Note about the DBCS Table

* The actual disk space size has been rounded to the nearest tenth. Therefore, the values will differ slightly from the ones shown by the installer.

National Language Support (NLS)

The following list contains space requirements in MB for SAS 9.2 components that support Asian languages.

| Languages Supported | Disk Space (in MB)* | See Table |
|-----------------------|---------------------|------------|
| Chinese – traditional | 3.0 | below |
| Chinese – simplified | 174.0 | below |
| Japanese | 262.0 | On page 10 |
| Korean | 174.0 | On page 10 |

Asian Language Support

The following list contains space requirements in MB for SAS System components that support various Asian Languages.

| Traditional Chinese Support | Disk Space (in MB)* |
|--|---------------------|
| Base SAS Traditional Chinese Support Files | 3.0 |

| Simplified Chinese Support | Disk Space (in MB)* |
|---|---------------------|
| Base SAS Simplified Chinese Support Files | 47.8 |
| SAS/ACCESS Interface to DB2 Simplified Chinese Support Files | 0.9 |
| SAS/ACCESS Interface to Oracle Simplified Chinese Support Files | 0.9 |
| SAS/AF Simplified Chinese Support Files | 2.0 |
| SAS/CONNECT Simplified Chinese Support Files | 0.9 |
| SAS/EIS Simplified Chinese Support Files | 1.9 |
| SAS/GIS Simplified Chinese Support Files | 1.8 |
| SAS/IntrNet Simplified Chinese Support Files | 1.8 |
| SAS/LAB Simplified Chinese Support Files | 0.6 |
| SAS/SHARE Simplified Chinese Support Files | 0.8 |
| Total | 59.4 |

| Japanese Support | Disk Space (in MB)* |
|---|----------------------------|
| Base SAS Japanese Support Files | 78.1 |
| SAS/ACCESS Interface to DB2 Japanese Support Files | 0.9 |
| SAS/ACCESS Interface to Oracle Japanese Support Files | 0.9 |
| SAS/AF Japanese Support Files | 2.0 |
| SAS/CONNECT Japanese Support Files | 0.9 |
| SAS/EIS Japanese Support Files | 10.1 |
| SAS/GIS Japanese Support Files | 1.8 |
| SAS/IntrNet Japanese Support Files | 1.8 |
| SAS/LAB Japanese Support Files | 0.4 |
| SAS/SHARE Japanese Support Files | 0.8 |
| Total | 97.7 |

| Korean Support | Disk Space (in MB)* |
|---|----------------------------|
| Base SAS Korean Support Files | 47.8 |
| SAS/ACCESS Interface to DB2 Korean Support Files | 0.1 |
| SAS/ACCESS Interface to Oracle Korean Support Files | 0.1 |
| SAS/AF Korean Support Files | 2.0 |
| SAS/CONNECT Korean Support Files | 0.9 |
| SAS/EIS Korean Support Files | 1.9 |
| SAS/GIS Korean Support Files | 1.8 |
| SAS/IntrNet Korean Support Files | 1.6 |
| SAS/LAB Korean Support Files | 0.6 |
| SAS/SHARE Korean Support Files | 0.8 |
| Total | 57.6 |

Specific Product Requirements

Base SAS Software

Requirements for SPD Engine on Microsoft Windows for x64:

The following are general guidelines for a minimum computer system to support SPD Engine:

SPDE will run with the minimum system specified in the Hardware Requirements section on page 4, but these are the minimum recommended system guidelines to make use of SPDE function:

- An SMP (symmetric multiprocessing) computer with at least two CPUs; four are preferred
- At least one I/O channel per two CPUs
- Enough disk drives to have at least one mount point per CPU isolated on its own disk; two mount points per CPU are better
- The use of ODS Graphics in Base SAS software requires a SAS/GRAPH license.

Credit Scoring for SAS Enterprise Miner Software

SAS Enterprise Miner software is a prerequisite for the installation of Credit Scoring for SAS Enterprise Miner.

SAS Enterprise Miner Server

SAS Enterprise Miner Server includes Credit Scoring for SAS Enterprise Miner. Unless explicitly licensed, use of this software is limited to SAS Enterprise Miner Server.

Disk Space Required:

SAS Enterprise Miner Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Enterprise Miner Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise Miner SAS Client

SAS Enterprise Miner SAS Client includes Credit Scoring for SAS Enterprise Miner Client. Unless explicitly licensed, use of this software is limited to SAS Enterprise Miner SAS Client.

Disk Space Required:

SAS Enterprise Miner SAS Client uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Enterprise Miner SAS Client should be decreased by the disk space of any of the above products that have been previously installed.*

Credit Scoring for SAS Enterprise Miner Desktop Software

SAS Enterprise Miner for Desktop software is a prerequisite for the installation of Credit Scoring for SAS Enterprise Miner Desktop.

Credit Scoring for SAS Enterprise Miner Desktop includes Credit Scoring for SAS Enterprise Miner. Unless explicitly licensed, use of this software is limited to Credit Scoring for SAS Enterprise Miner Desktop.

Disk Space Required:

Credit Scoring for SAS Enterprise Miner Desktop uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install Credit Scoring for SAS Enterprise Miner Desktop should be decreased by the disk space of any of the above products that have been previously installed.*

JMP Clinical 64-bit Edition Software

The following products are included in JMP Clinical 64-bit Edition SAS Client. Unless explicitly licensed, use of this software is limited to JMP Clinical 64-bit Edition SAS Client.

- Base SAS software
- JMP Life Sciences SAS Components software
- SAS/ACCESS Interface to PC Files software
- SAS/Genetics software
- SAS/GRAPH software
- SAS/IML software
- SAS/STAT software

Disk Space Required:

JMP Clinical 64-bit Edition SAS Client uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install JMP Clinical 64-bit Edition SAS Client should be decreased by the disk space of any of the above products that have been previously installed.*

JMP Genomics 64-bit Edition

The following products are included in JMP Genomics 64-bit Edition SAS Components. Unless explicitly licensed, use of this software is limited to JMP Genomics 64-bit Edition SAS Components.

- JMP Life Sciences SAS Components software
- Base SAS software
- SAS/ACCESS Interface to PC Files software
- SAS/Genetics software
- SAS/GRAPH software
- SAS/IML software
- SAS/STAT software

Disk Space Required:

JMP Genomics 64-bit Edition SAS Components uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install JMP Genomics 64-bit Edition SAS Client should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Activity-Based Management Software

SAS Activity-Based Costing Server

The following products are included in SAS Activity-Based Costing Server. Unless explicitly licensed, use of this software is limited to SAS Activity-Based Costing Server.

- SAS Activity-Based Costing software
- SAS Activity-Based Management SAS Server software
- Base SAS software
- SAS Integration Technologies software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/CONNECT software
- SAS/GRAPH software
- SAS/SHARE software

Disk Space Required:

SAS Activity-Based Costing Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Activity-Based Costing Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Activity-Based Management Data Integration and Enterprise BI Server

The following products are included in SAS Activity-Based Management Data Integration and Enterprise BI Server. Unless explicitly licensed, use of this software is limited to SAS Activity-Based Management Data Integration and Enterprise BI Server.

- Base SAS software
- SAS Integration Technologies software
- SAS Metadata Bridges, three of choice
- SAS OLAP Server software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/GRAPH software

Disk Space Required:

SAS Activity-Based Management Data Integration and Enterprise BI Server use the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Activity-Based Management Data Integration and Enterprise BI Server should be decreased by the disk space of any of the above products that have been previously installed.

SAS Activity-Based Management – Select Edition Software

The following products are included in SAS Activity-Based Management – Select Edition SAS Server. Unless explicitly licensed, use of this software is limited to SAS Activity-Based Management – Select Edition SAS Server.

- SAS Activity-Based Costing Server
- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/GRAPH software
- SAS/SHARE software

Disk Space Required:

SAS Activity-Based Management – Select Edition SAS Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Activity-Based Management – Select Edition SAS Server should be decreased by the disk space of any of the above products that have been previously installed.

SAS Analytics Accelerator for Teradata Software

The SAS Analytics Accelerator for Teradata requires Base SAS, SAS/STAT, and SAS/ACCESS Interface to Teradata.

In-Database DBMS Products Required:

SAS Analytics Accelerator for Teradata requires Teradata Tools and Utilities (TTU) 13 with patch 1.9 or later.

SAS Anti-Money Laundering Software

The following products are included in SAS Anti-Money Laundering Alert Generation Server. Unless explicitly licensed, use of this software is limited to SAS Anti-Money Laundering Alert Generation Server.

- SAS Anti-Money Laundering Alert Generation Server software
- Base SAS software
- SAS Data Quality Server software
- SAS Enterprise Miner software
- SAS Integration Technologies software
- SAS Metadata Bridges, three of choice
- SAS OLAP Server software
- SAS Threaded Kernel Extensions for Data Mining software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/GRAPH software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Anti-Money Laundering Alert Generation Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Anti-Money Laundering Alert Generation Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS AppDev Studio Software

The following products are included in SAS AppDev Studio Application Development Client. Unless explicitly licensed, use of this software is limited to SAS AppDev Studio Application Development Client.

- Base SAS software
- SAS Integration Technologies software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IntrNet software
- SAS/SHARE software

Disk Space Required:

SAS AppDev Studio Application Development Client uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS AppDev Studio Application Development Client should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Asset and Liability Management for Banking Software

The following products are included in SAS Risk Management for Banking Server. Unless explicitly licensed, use of this software is limited to SAS Risk Management for Banking Server.

- SAS Asset and Liability Management for Banking Server software
- SAS Risk Management for Banking Server software
- Base SAS software
- SAS Detail Data Store for Banking 3.1 software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS Risk Dimensions Server Component software
- SAS Risk Reporting Repository software
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Risk Management for Banking Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Risk Management for Banking Server should be decreased by the disk space of any of the above products that have been previously installed.*

In addition, if you install any of the available Risk Management for Banking applications (up to and including all four), an additional minimum of 250 MB of disk space is required.

SAS Banking Intelligence Architecture Software

SAS Banking Analytics Architecture Data Integration Server

The following products are included in SAS Banking Analytics Architecture Data Integration Server. Unless explicitly licensed, use of this software is limited to SAS Banking Analytics Architecture Data Integration Server.

- SAS Banking Analytics Architecture Data Integration Server software
- Base SAS software
- SAS Detail Data Store for Banking software
- SAS Integration Technologies software
- SAS/ACCESS engine of choice
- a second SAS/ACCESS engine of choice
- SAS/CONNECT software

Disk Space Required:

SAS Banking Analytics Architecture Data Integration Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Banking Analytics Architecture Data Integration Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Banking Analytics Architecture Enterprise BI Server

The following products are included in SAS Banking Analytics Architecture Enterprise BI Server. Unless explicitly licensed, use of this software is limited to SAS Banking Analytics Architecture Enterprise BI Server.

- Base SAS software
- SAS BI Lineage Scheduling Server software
- SAS BI Lineage Plug-in for SAS Management Console software
- SAS Enterprise Guide software
- SAS Integration Technologies software
- SAS Management Console software
- SAS/GRAPH software
- SAS/STAT software

Disk Space Required:

SAS Banking Analytics Architecture Enterprise BI Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Banking Analytics Architecture Enterprise BI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS BI Server Software

The following products are included in SAS BI Server. Unless explicitly licensed, use of this software is limited to SAS BI Server.

- Base SAS software
- SAS Integration Technologies software
- SAS/GRAPH software

Disk Space Required:

SAS BI Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS BI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS BookRunner Advanced Analytics Software

The following products are included in SAS BookRunner Advanced Analytics Server. Unless explicitly licensed, use of this software is limited to SAS BookRunner Advanced Analytics Server.

- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS Risk Dimensions Server Component software
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS BookRunner Advanced Analytics Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS BookRunner Advanced Analytics Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS BookRunner Analytics Workbench Software

The following products are included in SAS BookRunner Analytics Workbench Server. Unless explicitly licensed, use of this software is limited to SAS BookRunner Analytics Workbench Server.

- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS Risk Dimensions Server Component software
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS BookRunner Analytics Workbench Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS BookRunner Analytics Workbench Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS BookRunner Commodity Capture Software

The following products are included in SAS BookRunner Commodity Capture Server. Unless explicitly licensed, use of this software is limited to SAS BookRunner Commodity Capture Server.

- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS Risk Dimensions Server Component software
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software

- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS BookRunner Commodity Capture Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS BookRunner Commodity Capture Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Campaign Management Software

The following products are included in SAS Campaign Management Server. Unless explicitly licensed, use of this software is limited to SAS Campaign Management Server.

- Base SAS software
- SAS Customer Intelligence Processes software
- SAS Integration Technologies software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Campaign Management Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Campaign Management Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Credit Risk for Banking Software

The following products are included in SAS Risk Management for Banking Server. Unless explicitly licensed, use of this software is limited to SAS Risk Management for Banking Server.

- SAS Credit Risk for Banking Server software
- SAS Risk Management for Banking Server software
- Base SAS software
- SAS Detail Data Store for Banking 3.1 software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS Risk Dimensions Server Component software
- SAS Risk Reporting Repository software
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Risk Management for Banking Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Risk Management for Banking Server should be decreased by the disk space of any of the above products that have been previously installed.*

In addition, if you install any of the available Risk Management for Banking applications (up to and including all four), an additional minimum of 250 MB of disk space is required.

SAS Credit Risk Management for Banking Software

The following products are included in SAS Credit Risk Management for Banking Server. Unless explicitly licensed, use of this software is limited to SAS Credit Risk Management for Banking Server.

- SAS Credit Risk Management for Banking Server Component software
- Base SAS software
- SAS Detail Data Store for Banking
- SAS Integration Technologies software

- SAS OLAP Server software
- SAS Risk Reporting Repository software
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Credit Risk Management for Banking Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Credit Risk Management for Banking Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Credit Scoring for Banking Software

SAS Credit Scoring for Banking requires SAS Banking Analytics Architecture.

The following products are included in SAS Credit Scoring for Banking Server. Unless explicitly licensed, use of this software is limited to SAS Credit Scoring for Banking Server.

- SAS Credit Scoring for Banking Server software
- Base SAS software
- BIS Common Server software
- Credit Scoring for SAS Enterprise Miner software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/INSIGHT software

- SAS/OR software
- SAS/STAT software

Disk Space Required:

SAS Credit Scoring for Banking Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Credit Scoring for Banking Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Data Integration Server Software

The following products are included in SAS Data Integration Server. Unless explicitly licensed, use of this software is limited to SAS Data Integration Server.

- Base SAS software
- SAS Integration Technologies software
- SAS Metadata Server software
- SAS/CONNECT software

Disk Space Required:

SAS Data Integration Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Data Integration Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Data Mining for the Classroom Software

The following products are included in SAS Data Mining for the Classroom. Unless explicitly licensed, use of this software is limited to SAS Data Mining for the Classroom.

- Base SAS software
- Credit Scoring for SAS Enterprise Miner
- SAS Enterprise Miner software
- SAS Text Miner software
- SAS Text Miner language of choice
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software

- SAS/INSIGHT software
- SAS/OR software
- SAS/STAT software

Disk Space Required:

SAS Data Mining for the Classroom uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Data Mining for the Classroom should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Data Surveyor for Clickstream Data Software

SAS Data Integration Studio is a prerequisite for the installation of SAS Data Surveyor for Clickstream Data.

SAS Data Surveyor for Clickstream Data Server requires SAS Data Surveyor for Clickstream Data Server Components. Unless explicitly licensed, use of this software is limited to SAS Data Surveyor for Clickstream Data Server.

Disk Space Required:

SAS Data Surveyor for Clickstream Data Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Data Surveyor for Clickstream Data Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Data Surveyor for Oracle Applications Software

Base SAS software is a prerequisite for the installation of SAS Data Surveyor for Oracle Applications.

Software Included in SAS Data Surveyor for Oracle Applications:

SAS/ACCESS Interface to ODBC software is included in SAS Data Surveyor for Oracle Applications. Unless explicitly licensed, use of this software is limited to SAS Data Surveyor for Oracle Applications.

Disk Space Required:

SAS Data Surveyor for Oracle Applications uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Data Surveyor for Oracle Applications should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Data Surveyor for PeopleSoft Software

Base SAS software is a prerequisite for the installation of SAS Data Surveyor for PeopleSoft.

Software Included in SAS Data Surveyor for PeopleSoft:

SAS/ACCESS Interface to ODBC software is included in SAS Data Surveyor for PeopleSoft. Unless explicitly licensed, use of this software is limited to SAS Data Surveyor for PeopleSoft.

Disk Space Required:

SAS Data Surveyor for PeopleSoft uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Data Surveyor for PeopleSoft should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Data Surveyor for Salesforce.com Software

Base SAS software is a prerequisite for the installation of SAS Data Surveyor for Salesforce.com.

Software Included in SAS Data Surveyor for Salesforce.com:

SAS/ACCESS Interface to ODBC software is included in SAS Data Surveyor for Salesforce.com. Unless explicitly licensed, use of this software is limited to SAS Data Surveyor for Salesforce.com.

Disk Space Required:

SAS Data Surveyor for Salesforce.com uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Data Surveyor for Salesforce.com should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Data Surveyor for SAP Software

Base SAS software is a prerequisite for the installation of SAS Data Surveyor for SAP.

The following products are included in SAS Data Surveyor for SAP. Unless explicitly licensed, use of this software is limited to SAS Data Surveyor for SAP.

- SAS Integration Technologies software
- SAS Metadata Server software
- SAS/ACCESS Interface to R/3 software
- SAS/CONNECT software

Disk Space Required:

SAS Data Surveyor for SAP uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Data Surveyor for SAP should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Data Surveyor for Siebel Software

Base SAS software is a prerequisite for the installation of SAS Data Surveyor for Siebel.

Software Included in SAS Data Surveyor for Siebel:

SAS/ACCESS Interface to ODBC software is included in SAS Data Surveyor for Siebel. Unless explicitly licensed, use of this software is limited to SAS Data Surveyor for Siebel.

Disk Space Required:

SAS Data Surveyor for Siebel uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Data Surveyor for Siebel should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Digital Marketing Software

The following products are included in SAS Digital Marketing SAS Server. Unless explicitly licensed, use of this software is limited to SAS Digital Marketing SAS Server.

- Base SAS software
- SAS/GRAPH software
- SAS/SHARE software
- SAS Integration Technologies software

Disk Space Required:

SAS Digital Marketing SAS Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Digital Marketing SAS Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise BI Server Software

The following products are included in SAS Enterprise BI Server. Unless explicitly licensed, use of this software is limited to SAS Enterprise BI Server.

- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/AF software
- SAS/GRAPH software

Disk Space Required:

SAS Enterprise BI Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Enterprise BI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise Data Integration Server Software

The following products are included in SAS Enterprise Data Integration Server. Unless explicitly licensed, use of this software is limited to SAS Enterprise Data Integration Server.

- Base SAS software
- Quality Knowledge Base locale of choice
- SAS Data Quality Server software
- SAS Integration Technologies software
- SAS Metadata Server software
- SAS/ACCESS engine of choice
- a second SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS/SHARE software

Disk Space Required:

SAS Enterprise Data Integration Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Enterprise Data Integration Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise GRC Software

The following products are included in SAS Enterprise GRC Server. Unless explicitly licensed, use of this software is limited to SAS Enterprise GRC Server.

- SAS Enterprise GRC Server software
- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/ACCESS engine of choice (Oracle, ODBC, or DB2)
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/GRAPH software

Disk Space Required:

SAS Enterprise GRC Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Enterprise GRC Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise Miner 4.3 and 6.2

SAS Enterprise Miner Server

Base SAS software and SAS/STAT software are prerequisites for the installation of SAS Enterprise Miner Server.

The following products are included in SAS Enterprise Miner Server 4.3 and 6.2. Unless explicitly licensed, use of this software is limited to SAS Enterprise Miner Server.

- SAS Enterprise Miner software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/INSIGHT software
- SAS/OR software

Memory required: For SAS Enterprise Miner Server 4.3 and 6.2, 2 GB of memory is required per concurrent user.

Disk Space Required:

The disk space required for the SAS Enterprise Miner Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: If you have SAS 9.2 Foundation installed already, the amount of disk space required to install the SAS Enterprise Miner Server should be decreased by the disk space of any of the above products that have been previously installed.

SAS Enterprise Miner SAS Client 4.3

The following products are included in SAS Enterprise Miner SAS Client 4.3 software. Unless explicitly licensed, use of this software is limited to SAS Enterprise Miner SAS Client 4.3.

- Base SAS software
- SAS Enterprise Miner software
- SAS Enterprise Guide software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software

- SAS/INSIGHT software
- SAS/OR software
- SAS/STAT software

Memory Required: 1 GB required.

Disk Space Required:

The disk space required for the SAS Enterprise Miner SAS Client is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, the amount of disk space required to install the SAS Enterprise Miner SAS Client should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Enterprise Miner for Desktop Software

Base SAS and SAS/STAT software are prerequisites for the installation of SAS Enterprise Miner for Desktop.

The following products are included in SAS Enterprise Miner for Desktop. Unless explicitly licensed, use of this software is limited to SAS Enterprise Miner for Desktop.

- SAS Enterprise Miner
- SAS Integration Technologies software
- SAS/ACCESS Interface to PC Files software
- SAS/ETS software
- SAS/GRAPH software
- SAS/OR software

Disk Space Required:

SAS Enterprise Miner for Desktop uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Enterprise Miner for Desktop should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Fair Banking Software

SAS Fair Banking Server Software

The following products are included in SAS Fair Banking Server. Unless explicitly licensed, use of this software is limited to SAS Fair Banking Server.

- Base SAS software
- SAS Data Quality Server
- SAS Fair Banking Server
- SAS Integration Technologies
- SAS OLAP Server
- SAS/ACCESS Interface to ODBC

- SAS/ACCESS Interface to PC Files
- SAS/CONNECT
- SAS/GRAPH
- SAS/IML
- SAS/IntrNet
- SAS/STAT

Disk Space Required:

SAS Fair Banking Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Fair Banking Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Fair Banking Data Integration and Enterprise BI Server Software

The following products are included in SAS Fair Banking Data Integration and Enterprise BI Server. Unless explicitly licensed, use of this software is limited to SAS Fair Banking Data Integration and Enterprise BI Server.

- Base SAS software
- SAS Integration Technologies software
- SAS Metadata Server software
- SAS OLAP Server software
- SAS/ACCESS Interface to PC Files software
- SAS/ACCESS engine of choice
- SAS/AF software
- SAS/CONNECT software
- SAS/GRAPH software
- SAS/SHARE software

Disk Space Required:

SAS Fair Banking Data Integration and Enterprise BI Server use the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Fair Banking Data Integration and Enterprise BI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Financial Management Adapter for SAP Server

The following products are included in SAS Financial Management Adapter for SAP Server. Unless explicitly licensed, use of this software is limited to SAS Financial Management Adapter for SAP Server.

- SAS Financial Management Adapter for SAP Server software
- Base SAS software
- SAS Integration Technologies software
- SAS/ACCESS Interface to R/3 software
- SAS/CONNECT software

Disk Space Required:

SAS Financial Management Adapter for SAP Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Financial Management Adapter for SAP Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Financial Management Server Software

The following products are included in SAS Financial Management Server. Unless explicitly licensed, use of this software is limited to SAS Financial Management Server.

- SAS Financial Management Server software
- Base SAS software
- SAS Integration Technologies software
- SAS Metadata Bridges, three of choice
- SAS OLAP Server software
- SAS Operational Planning software
- SAS Solutions Services Data Server software
- SAS Strategy Management Enterprise software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to MySQL software
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/GRAPH software
- SAS/SHARE software

Disk Space Required:

SAS Financial Management Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Financial Management Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Firmwide Risk for Banking Software

The following products are included in SAS Risk Management for Banking Server. Unless explicitly licensed, use of this software is limited to SAS Risk Management for Banking Server.

- SAS Firmwide Risk for Banking Server software
- SAS Risk Management for Banking Server software
- Base SAS software
- SAS Detail Data Store for Banking 3.1 software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS Risk Dimensions Server Component software
- SAS Risk Reporting Repository software
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Risk Management for Banking Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Risk Management for Banking Server should be decreased by the disk space of any of the above products that have been previously installed.*

In addition, if you install any of the available Risk Management for Banking applications (up to and including all four), an additional minimum of 250 MB of disk space is required.

SAS Firmwide Risk Management for Insurance Software

The following products are included in SAS Risk Management for Insurance Server. Unless explicitly licensed, use of this software is limited to SAS Risk Management for Insurance Server.

- SAS Firmwide Risk Management for Insurance Server software
- SAS Risk Management for Insurance Server software
- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS Risk Dimensions Server Component software
- SAS Risk Reporting Repository software
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Risk Management for Insurance Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Risk Management for Insurance Server should be decreased by the disk space of any of the above products that have been previously installed.*

In addition, if you install any of the available Risk Management for Insurance applications (up to and including all four), an additional minimum of 450 MB of disk space is required.

SAS Forecast Server Software

The following products are included in SAS Forecast Server. Unless explicitly licensed, use of this software is limited to SAS Forecast Server.

- Base SAS software
- SAS Forecast Server Batch Interface
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS/ETS software
- SAS/GRAPH software
- SAS/OR Mathematical Programming Common Components software

Disk Space Required:

The disk space required for SAS Forecast Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Forecast Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Fraud Framework for Banking Software

SAS Fraud Framework for Banking includes the SAS Social Network Analysis SAS Server. See the SAS Social Network Analysis Server Software section of this document for information about the SAS Social Network Analysis SAS Server.

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server Software

The following products are included in SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server. Unless explicitly licensed, use of this software is limited to SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server.

- Base SAS software
- SAS/ACCESS engine of choice
- SAS/ETS software
- SAS/OR software
- SAS/QC software
- SAS/STAT software

In addition, SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server includes the following servers from other offerings. Refer to the appropriate sections of this document for information about the composition of each.

- SAS Enterprise BI Server
- SAS Enterprise Data Integration Server
- SAS Enterprise Miner Server
- SAS Model Manager Server
- SAS Text Miner Server, including a SAS Text Miner language of choice

Disk Space Required:

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server use the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Fraud Framework Analytics SAS Client Software

Base SAS is included in SAS Fraud Framework Analytics Thin Client. In addition, SAS Fraud Framework Analytics Thin Client includes the following clients from other offerings. Refer to the appropriate sections of this document for information about the composition of each.

- SAS Enterprise Miner Client
- SAS Model Manager Report Registration Client
- SAS Text Miner Client, including a SAS Text Miner language of choice

Disk Space Required:

SAS Fraud Framework Analytics SAS Client uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Fraud Framework Analytics SAS Client should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Fraud Framework for Government Software

SAS Fraud Framework for Government includes the SAS Social Network Analysis SAS Server. See the SAS Social Network Analysis Server Software section of this document for information about the SAS Social Network Analysis SAS Server.

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server Software

The following products are included in SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server. Unless explicitly licensed, use of this software is limited to SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server.

- Base SAS software
- SAS/ACCESS engine of choice
- SAS/ETS software
- SAS/OR software
- SAS/QC software
- SAS/STAT software

In addition, SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server includes the following servers from other offerings. Refer to the appropriate sections of this document for information about the composition of each.

- SAS Enterprise BI Server
- SAS Enterprise Data Integration Server
- SAS Enterprise Miner Server
- SAS Model Manager Server
- SAS Text Miner Server, including a SAS Text Miner language of choice

Disk Space Required:

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server use the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Fraud Framework Analytics SAS Client Software

Base SAS is included in SAS Fraud Framework Analytics Thin Client. In addition, SAS Fraud Framework Analytics Thin Client includes the following clients from other offerings. Refer to the appropriate sections of this document for information about the composition of each.

- SAS Enterprise Miner Client
- SAS Model Manager Report Registration Client
- SAS Text Miner Client, including a SAS Text Miner language of choice

Disk Space Required:

SAS Fraud Framework Analytics SAS Client uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Fraud Framework Analytics SAS Client should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Fraud Framework for Health Care Software

SAS Fraud Framework for Health Care includes the SAS Social Network Analysis SAS Server. See the SAS Social Network Analysis Server Software section of this document for information about the SAS Social Network Analysis SAS Server.

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server Software

The following products are included in SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server. Unless explicitly licensed, use of this software is limited to SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server.

- Base SAS software
- SAS/ACCESS engine of choice
- SAS/ETS software
- SAS/OR software

- SAS/QC software
- SAS/STAT software

In addition, SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server includes the following servers from other offerings. Refer to the appropriate sections of this document for information about the composition of each.

- SAS Enterprise BI Server
- SAS Enterprise Data Integration Server
- SAS Enterprise Miner Server
- SAS Model Manager Server
- SAS Text Miner Server, including a SAS Text Miner language of choice

Disk Space Required:

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Fraud Framework Analytics SAS Client Software

Base SAS is included in SAS Fraud Framework Analytics Thin Client. In addition, SAS Fraud Framework Analytics Thin Client includes the following clients from other offerings. Refer to the appropriate sections of this document for information about the composition of each.

- SAS Enterprise Miner Client
- SAS Model Manager Report Registration Client
- SAS Text Miner Client, including a SAS Text Miner language of choice

Disk Space Required:

SAS Fraud Framework Analytics SAS Client uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Fraud Framework Analytics SAS Client should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Fraud Framework for Insurance Software

SAS Fraud Framework for Insurance includes the SAS Social Network Analysis SAS Server. See the SAS Social Network Analysis Server Software section of this document for information about the SAS Social Network Analysis SAS Server.

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server Software

The following products are included in SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server. Unless explicitly licensed, use of this software is limited to SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server.

- Base SAS software
- SAS/ACCESS engine of choice
- SAS/ETS software
- SAS/OR software
- SAS/QC software
- SAS/STAT software

In addition, SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server includes the following servers from other offerings. Refer to the appropriate sections of this document for information about the composition of each.

- SAS Enterprise BI Server
- SAS Enterprise Data Integration Server
- SAS Enterprise Miner Server
- SAS Model Manager Server
- SAS Text Miner Server, including a SAS Text Miner language of choice

Disk Space Required:

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server use the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Fraud Framework Analytics SAS Client Software

Base SAS is included in SAS Fraud Framework Analytics Thin Client. In addition, SAS Fraud Framework Analytics Thin Client includes the following clients from other offerings. Refer to the appropriate sections of this document for information about the composition of each.

- SAS Enterprise Miner Client
- SAS Model Manager Report Registration Client
- SAS Text Miner Client, including a SAS Text Miner language of choice

Disk Space Required:

SAS Fraud Framework Analytics SAS Client uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Fraud Framework Analytics SAS Client should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Fraud Framework for Telecommunications Software

SAS Fraud Framework for Telecommunications includes the SAS Social Network Analysis SAS Server. See the SAS Social Network Analysis Server Software section of this document for information about the SAS Social Network Analysis SAS Server.

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server Software

The following products are included in SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server. Unless explicitly licensed, use of this software is limited to SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server.

- Base SAS software
- SAS/ACCESS engine of choice
- SAS/ETS software
- SAS/OR software
- SAS/QC software
- SAS/STAT software

In addition, SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server includes the following servers from other offerings. Refer to the appropriate sections of this document for information about the composition of each.

- SAS Enterprise BI Server
- SAS Enterprise Data Integration Server
- SAS Enterprise Miner Server
- SAS Model Manager Server
- SAS Text Miner Server, including a SAS Text Miner language of choice

Disk Space Required:

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server use the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Fraud Framework Analytics SAS Client Software

Base SAS is included in SAS Fraud Framework Analytics Thin Client. In addition, SAS Fraud Framework Analytics Thin Client includes the following clients from other offerings. Refer to the appropriate sections of this document for information about the composition of each.

- SAS Enterprise Miner Client
- SAS Model Manager Report Registration Client
- SAS Text Miner Client, including a SAS Text Miner language of choice

Disk Space Required:

SAS Fraud Framework Analytics SAS Client uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Fraud Framework Analytics SAS Client should be decreased by the disk space of any of the above products that have been previously installed.*

SAS High-Performance Forecasting Software

Base SAS software is a prerequisite for the installation of SAS High-Performance Forecasting.

SAS High-Performance Markdown Optimization Server

The following products are included in SAS High-Performance Markdown Optimization Server. Unless explicitly licensed, use of this software is limited to SAS High-Performance Markdown Optimization Server.

- SAS High-Performance Markdown Optimization Server software
- Base SAS software
- SAS High-Performance Forecasting software
- SAS High-Performance Merchandise Intelligence Server software
- SAS Integration Technologies software
- SAS Metadata Bridges, 3 of choice
- SAS Threaded Kernel Extensions for Operations Research software
- SAS/ACCESS Interface to Oracle software
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/STAT software

Disk Space Required:

SAS High-Performance Markdown Optimization Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS High-Performance Markdown Optimization Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Human Capital Management Server Software

The following products are included in SAS Human Capital Management Server. Unless explicitly licensed, use of this software is limited to SAS Human Capital Management Server.

- SAS Human Capital Management Server software
- Base SAS software
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- AS Metadata Bridges, three of choice
- SAS OLAP Server software
- SAS Solutions Services Data Server software
- SAS Strategy Management Enterprise software
- SAS Threaded Kernel Extensions for Operations Research software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to MySQL software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Human Capital Management Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Human Capital Management Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Information Delivery Portal Software

Base SAS is a prerequisite for the installation of SAS Information Delivery Portal software.

Software Included in SAS Information Delivery Portal software:

SAS Integration Technologies software is included in SAS Information Delivery Portal Server software. Unless explicitly licensed, use of this software is limited to SAS Information Delivery Portal Server software.

Disk Space Required:

SAS Information Delivery Portal Server software uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install Information Delivery Portal Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Insurance Analytics Architecture Software

SAS Insurance Analytics Architecture Data Integration Server

The following products are included in SAS Insurance Analytics Architecture Data Integration Server. Unless explicitly licensed, use of this software is limited to SAS Insurance Analytics Architecture Data Integration Server.

- SAS Insurance Analytics Architecture Data Integration Server software
- Base SAS software
- SAS Detail Data Store for Insurance software
- SAS Integration Technologies software
- SAS/ACCESS engine of choice
- a second SAS/ACCESS engine of choice
- SAS/CONNECT software

Disk Space Required:

SAS Insurance Analytics Architecture Data Integration Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Insurance Analytics Architecture Data Integration Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Insurance Analytics Architecture Enterprise BI Server

The following products are included in SAS Insurance Analytics Architecture Enterprise BI Server. Unless explicitly licensed, use of this software is limited to SAS Insurance Analytics Architecture Enterprise BI Server.

- Base SAS software
- SAS Enterprise Guide software
- SAS Integration Technologies software
- SAS/GRAPH software
- SAS/STAT software

Disk Space Required:

SAS Insurance Analytics Architecture Enterprise BI Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Insurance Analytics Architecture Enterprise BI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Inventory Optimization Software

Base SAS is a prerequisite for SAS Inventory Optimization.

SAS Inventory Optimization software is included in SAS Inventory Optimization 2.1.

Disk Space Required:

SAS Inventory Optimization uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Inventory Optimization should be decreased by the disk space of any of the above products that have been previously installed.*

SAS IT Resource Management Server Software

The following products are included in SAS IT Resource Management Server. Unless explicitly licensed, use of this software is limited to SAS IT Resource Management Server.

- SAS IT Resource Management Server software
- SAS IT Resource Management MVA Data software
- Base SAS software
- SAS High Performance Forecasting software
- SAS Integration Technologies software
- SAS IT Management Solutions Core Components MVA Data software
- SAS OLAP Server software
- SAS Threaded Kernel Extensions for Operations Research
- SAS/ACCESS Interface to DB2 software
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to Oracle software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

The disk space required for the SAS IT Resource Management Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 installed already, the amount of disk space required to install SAS IT Resource Management Server should be decreased by the disk space of any of the above products that have been previously installed.*

Additional Requirements for SAS IT Resource Management Server:

SAS IT Resource Management requires a screen resolution of at least 800x600. If your display is set to a lower screen resolution, some windows may be truncated to fit the screen. If you experience font

display problems, you may want to use the default SAS font. To set the default font type, issue the SAS command `dlgfont` at the command prompt. In the Font window, select the font `Sasfont`, a style of regular, and font size 10.

SAS IT Resource Management requires an Xwindows device that supports 256 or more colors.

Adobe Acrobat Reader is required for some online documents supplied in printable form.

SAS Markdown Optimization Software

SAS Markdown Optimization Long Jobs Software

The following products are included in SAS Markdown Optimization Long Jobs Server. Unless explicitly licensed, use of this software is limited to SAS Markdown Optimization Long Jobs Server.

- Base SAS software
- SAS Markdown Optimization Server software
- Base SAS software
- SAS Enterprise Miner Server software
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS Merchandise Intelligence Server software
- SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/OR software
- SAS/STAT software

Disk Space Required:

SAS Markdown Optimization Long Jobs Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

***Note:** If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Markdown Optimization Long Jobs Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Markdown Optimization Short Jobs Software

The following products are included in SAS Markdown Optimization Short Jobs Server. Unless explicitly licensed, use of this software is limited to SAS Markdown Optimization Short Jobs Server.

- SAS Markdown Optimization Server software
- Base SAS software
- SAS Enterprise Miner Server software
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS Merchandise Intelligence Server software
- SAS/ACCESS engine of choice

- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/OR software
- SAS/STAT software

Disk Space Required:

SAS Markdown Optimization Short Jobs Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

***Note:** If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Markdown Optimization Short Jobs Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Market Risk for Banking Software

The following products are included in SAS Risk Management for Banking Server. Unless explicitly licensed, use of this software is limited to SAS Risk Management for Banking Server.

- SAS Market Risk for Banking Server software
- SAS Risk Management for Banking Server software
- Base SAS software
- SAS Detail Data Store for Banking 3.1 software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS Risk Dimensions Server Component software
- SAS Risk Reporting Repository software
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Risk Management for Banking Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Risk Management for Banking Server should be decreased by the disk space of any of the above products that have been previously installed.*

In addition, if you install any of the available Risk Management for Banking applications (up to and including all four), an additional minimum of 250 MB of disk space is required.

SAS Market Risk Management for Insurance Software

The following products are included in SAS Risk Management for Insurance Server. Unless explicitly licensed, use of this software is limited to SAS Risk Management for Insurance Server.

- SAS Market Risk Management for Insurance Server software
- SAS Risk Management for Insurance Server software
- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS Risk Dimensions Server Component software
- SAS Risk Reporting Repository software
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Risk Management for Insurance Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then the amount of disk space required to install SAS Risk Management for Insurance Server should be decreased by the disk space of any of the above products that have been previously installed.*

In addition, if you install any of the available Risk Management for Insurance applications (up to and including all four), an additional minimum of 450 MB of disk space is required.

SAS Marketing Automation Software

The following products are included in SAS Marketing Automation Server. Unless explicitly licensed, use of this software is limited to SAS Marketing Automation Server.

- Base SAS software
- SAS Customer Intelligence Processes software
- SAS Enterprise Miner software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Marketing Automation Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Marketing Automation Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Marketing Optimization Software

The following products are included in SAS Marketing Optimization Server. Unless explicitly licensed, use of this software is limited to SAS Marketing Optimization Server.

- SAS Marketing Optimization Server software
- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/GRAPH software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Marketing Optimization Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then the amount of disk space required to install SAS Marketing Optimization Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Merchandise Intelligence Common Transactions Software

The following products are included in SAS Merchandise Intelligence Common Transactions Server. Unless explicitly licensed, use of this software is limited to SAS Merchandise Intelligence Common Transactions Server.

- SAS Merchandise Intelligence Server software
- Base SAS software
- SAS Enterprise Miner Server software
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/OR software
- SAS/STAT software

In addition, SAS Merchandise Intelligence Common Transactions Server requires SAS Metadata Bridges (three of choice), not included with SAS Foundation. For information about specific requirements for SAS Metadata Bridges, see its System Requirements document available from Install Center (<http://support.sas.com/installcenter>).

Disk Space Required:

SAS Merchandise Intelligence Common Transactions Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then the amount of disk space required to install SAS Merchandise Intelligence Common Transactions Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Metadata Server

The following products are included in SAS Metadata Server. Unless explicitly licensed, use of this software is limited to SAS Metadata Server.

- Base SAS software
- SAS/CONNECT software

Disk Space Required:

SAS Metadata Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then the amount of disk space required to install SAS Metadata Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Model Manager Software

SAS Model Manager Server Software

Base SAS is a prerequisite for the installation of SAS Model Manager software.

The following products are included in SAS Model Manager Server. Unless explicitly licensed, use of this software is limited to SAS Model Manager Server.

- SAS Integration Technologies software
- SAS Model Manager Common Components software
- SAS Model Manager Server software
- SAS/GRAPH software

Disk Space Required:

SAS Model Manager Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Model Manager Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Model Manager Report Registration Client Software

Base SAS is a prerequisite for the installation of SAS Model Manager Report Registration Client software.

The following products are included in SAS Model Manager Report Registration Client. Unless explicitly licensed, use of this software is limited to SAS Model Manager Report Registration Client.

- SAS Model Manager Common Components software
- SAS Model Manager Report Registration Client software

Disk Space Required:

SAS Model Manager Report Registration Client uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Model Manager Report Registration Client should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Offer Optimization for Communications

The following products are included in SAS Offer Optimization for Communications Server. Unless explicitly licensed, use of this software is limited to SAS Offer Optimization for Communications Server.

- SAS Foundation for Communications Server software
- SAS Offer Optimization for Communications Server software
- Base SAS software
- SAS Enterprise Miner software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/ACCESS Engine (Oracle only—compatible with Oracle 11g)
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/INSIGHT software
- SAS/OR software
- SAS/STAT software

Disk Space Required:

SAS Offer Optimization for Communications Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Offer Optimization for Communications Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS OpRisk VaR Consortium Software

The following products are included in SAS OpRisk VaR Consortium Server. Unless explicitly licensed, use of this software is limited to SAS OpRisk VaR Consortium Server.

- SAS OpRisk VaR Server software
- Base SAS software
- SAS High Performance Forecasting software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/IML software

- SAS/OR software
- SAS/STAT software

Disk Space Required:

SAS OpRisk VaR Consortium Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS OpRisk VaR Consortium Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS OpRisk VaR Software

The following products are included in SAS OpRisk VaR Server. Unless explicitly licensed, use of this software is limited to SAS OpRisk VaR Server.

- SAS OpRisk VaR Server software
- Base SAS software
- SAS High Performance Forecasting software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS Risk Reporting Repository software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/IML software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS OpRisk VaR Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS OpRisk VaR Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS OLAP Server Software

Base SAS is a prerequisite for the installation of SAS OLAP Server software.

The following products are included in SAS OLAP Server software. Unless explicitly licensed, use of this software is limited to SAS OLAP Server.

- SAS OLAP Server software
- SAS/AF software
- SAS/GRAPH software

Memory:

The memory requirements for SAS OLAP Server software are dependent upon the complexity of the data. A minimum of 512 MB of space is required. Large applications will see performance improvements with more available memory.

SAS Pack Optimization Software

SAS Pack Optimization Long Jobs Server Software

The following products are included in SAS Pack Optimization Long Jobs Server. Unless explicitly licensed, use of this software is limited to SAS Pack Optimization Long Jobs Server.

- SAS Pack Optimization Server software
- Base SAS software
- SAS Enterprise Miner Server software
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS Merchandise Intelligence Server software
- SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/OR software
- SAS/STAT software

Disk Space Required:

SAS Pack Optimization Long Jobs Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

***Note:** If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Pack Optimization Long Jobs Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Pack Optimization Short Jobs Server

The following products are included in SAS Pack Optimization Short Jobs Server. Unless explicitly licensed, use of this software is limited to SAS Pack Optimization Short Jobs Server.

- SAS Pack Optimization Server software
- Base SAS software
- SAS Enterprise Miner Server software
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS Merchandise Intelligence Server software
- SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software

- SAS/OR software
- SAS/STAT software

Disk Space Required:

SAS Markdown Pack Short Jobs Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Pack Optimization Short Jobs Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Profitability Management Software

SAS Profitability Management SAS Server Software

The following products are included in SAS Profitability Management SAS Server. Unless explicitly licensed, use of this software is limited to SAS Profitability Management SAS Server.

- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS Transaction Assignment Server software
- SAS/ACCESS engine of choice
- SAS/AF software
- SAS/GRAPH software
- SAS/SHARE software

Disk Space Required:

SAS Profitability Management SAS Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Profitability Management SAS Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Profitability Management Data Integration and Enterprise BI Server Software

The following products are included in SAS Profitability Management Data Integration and Enterprise BI Server. Unless explicitly licensed, use of this software is limited to SAS Profitability Management Data Integration and Enterprise BI Server.

- Base SAS software
- SAS Integration Technologies software
- SAS Metadata Server software
- SAS OLAP Server software
- SAS/ACCESS Interface to PC Files software
- SAS/ACCESS engine of choice
- SAS/AF software

- SAS/CONNECT software
- SAS/GRAPH software
- SAS/SHARE software

Disk Space Required:

SAS Profitability Management Data Integration and Enterprise BI Server use the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Profitability Management Data Integration and Enterprise BI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Promotion Optimization Software

The following products are included in SAS Promotion Optimization Server. Unless explicitly licensed, use of this software is limited to SAS Promotion Optimization Server.

- SAS Promotion Optimization Server software
- Base SAS software
- SAS Enterprise Miner Server software
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS Merchandise Intelligence Server software
- SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/OR software
- SAS/STAT software

Disk Space Required:

SAS Promotion Optimization Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Promotion Optimization Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Real-Time Decision Manager Software

The following products are included in SAS Real-Time Decision Manager Server. Unless explicitly licensed, use of this software is limited to SAS Real-Time Decision Manager Server.

- Real-Time Decision Manager Server Components software
- Base SAS software
- SAS Customer Intelligence Processes software
- SAS Integration Technologies software
- SAS/ACCESS engine of choice
- SAS/GRAPH software
- SAS/STAT software

Disk Space Required:

SAS Real-Time Decision Manager Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then the amount of disk space required to install SAS Real-Time Decision Manager Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Regular Price Optimization Software

SAS Regular Price Optimization Long Jobs Server

The following products are included in SAS Regular Price Optimization Long Jobs Server. Unless explicitly licensed, use of this software is limited to SAS Regular Price Optimization Long Jobs Server.

- SAS Regular Price Optimization Server software
- Base SAS software
- SAS Enterprise Miner Server software
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS Merchandise Intelligence Server software
- SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/OR software
- SAS/STAT software

Disk Space Required:

SAS Regular Price Optimization Long Jobs Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Regular Price Optimization Long Jobs Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Regular Price Optimization Short Jobs Server

The following products are included in SAS Regular Price Optimization Short Jobs Server. Unless explicitly licensed, use of this software is limited to SAS Regular Price Optimization Short Jobs Server.

- SAS Regular Price Optimization Server software
- Base SAS software
- SAS Enterprise Miner Server software
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS Merchandise Intelligence Server software
- SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/OR software
- SAS/STAT software

Disk Space Required:

SAS Regular Price Optimization Short Jobs Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Regular Price Optimization Short Jobs Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Risk Dimensions Software

The following products are included in SAS Risk Dimensions Server. Unless explicitly licensed, use of this software is limited to SAS Risk Dimensions Server.

- Base SAS software
- SAS Risk Dimensions Server Component software
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS Threaded Kernel Extensions for Operations Research
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/IML software

- SAS/INSIGHT software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Risk Dimensions Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Risk Dimensions Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Scoring Accelerator for DB2 Software

SAS Scoring Accelerator for DB2 requires Base SAS, SAS/STAT, and SAS/ACCESS Interface to DB2. It also requires SAS Enterprise Miner.

In-Database DBMS Products Required:

- Client utilities for IBM DB2 9.5
- IBM DB2 9.5 FixPack 3: AIX 5.3 or IBM DB2 9.5 FixPack 3: Linux for x64: RHEL 4

SAS Scoring Accelerator for Netezza Software

SAS Scoring Accelerator for Netezza requires Base SAS, SAS/STAT, and SAS/ACCESS Interface to Netezza. It also requires SAS Enterprise Miner.

In-Database DBMS Products Required:

- Client utilities for Netezza 4.6
- Netezza Performance Data Server 4.6

SAS Scoring Accelerator for Teradata Software

The SAS Scoring Accelerator for Teradata requires Base SAS, SAS/STAT, and SAS/ACCESS Interface to Teradata. It also requires SAS Enterprise Miner (preferred) or SAS Model Manager.

In-Database DBMS Products Required:

- Client environment
 - Client utilities for Teradata (12 and higher)
 - Client utilities for Teradata 8.2 (V2r6)
- Database release
 - Teradata 12.0 (Linux)
 - Teradata V2r6.2 (Linux, MP-RAS)

SAS Service Parts Optimization Adapter for SAP Server

The following products are included in SAS Service Parts Optimization Adapter for SAP Server. Unless explicitly licensed, use of this software is limited to SAS Service Parts Optimization Adapter for SAP Server.

- SAS Service Parts Optimization Adapter for SAP Server software
- Base SAS software
- SAS Integration Technologies software
- SAS/ACCESS Interface to R/3 software
- SAS/CONNECT software

Disk Space Required:

SAS Service Parts Optimization Adapter for SAP Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Service Parts Optimization Adapter for SAP Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Service Parts Optimization Software

The following products are included in SAS Service Parts Optimization Server. Unless explicitly licensed, use of this software is limited to SAS Service Parts Optimization Server.

- SAS Service Parts Optimization Server software
- Base SAS software
- SAS Forecast Server Batch Interface software
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS Inventory Optimization software
- SAS/ACCESS engine of choice
- a second SAS/ACCESS engine of choice (or SAS Data Surveyor for SAP software)
- SAS/ETS software
- SAS/GRAPH software
- SAS/OR software
- SAS/QC software
- SAS/STAT software

In addition, SAS Service Parts Optimization Server includes the following servers from other offerings. Refer to the appropriate sections of this document for information about the composition of each.

- SAS Data Integration Server
- SAS Enterprise BI Server

Disk Space Required:

SAS Service Parts Optimization Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Service Parts Optimization Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Size Profiling Software

The following products are included in SAS Size Profiling Server. Unless explicitly licensed, use of this software is limited to SAS Size Profiling Server.

- SAS Size Profiling Server software
- Base SAS software
- SAS Enterprise Miner Server software
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS Merchandise Intelligence Server software
- SAS/ACCESS engine of choice
- SAS/CONNECT software
- SAS/ETS software
- SAS/GRAPH software
- SAS/OR software
- SAS/STAT software

Disk Space Required:

SAS Size Profiling Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, the amount of disk space required to install SAS Size Profiling Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Social Network Analysis Server Software

SAS Social Network Analysis SAS Server Software

The following products are included in SAS Social Network Analysis SAS Server. Unless explicitly licensed, use of this software is limited to SAS Social Network Analysis SAS Server.

- SAS Social Network Analysis Server software
- Base SAS software
- SAS Data Quality Server software
- SAS Integration Technologies software
- SAS Network Algorithms software
- SAS Quality Knowledge Base locale of choice
- SAS/ACCESS engine of choice
- a second SAS/ACCESS engine of choice
- Threaded Kernel Extensions for Graph Analytics software

Disk Space Required:

SAS Social Network Analysis SAS Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then the amount of disk space required to install SAS Social Network Analysis SAS Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Social Network Analysis Enterprise Data Integration and BI Server Software

The following products are included in SAS Social Network Analysis Enterprise Data Integration and BI Server. Unless explicitly licensed, use of this software is limited to SAS Social Network Analysis Enterprise Data Integration and BI Server.

- Base SAS software
- SAS/ACCESS engine of choice

In addition, SAS Social Network Analysis Enterprise Data Integration and BI Server includes the following servers from other offerings. Refer to the appropriate sections of this document for information about the composition of each.

- SAS Data Integration Server
- SAS Enterprise BI Server

Disk Space Required:

SAS Social Network Analysis Enterprise Data Integration and BI Server use the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then the amount of disk space required to install SAS Social Network Analysis Enterprise Data Integration and BI Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Space Optimization Software

The following products are included in SAS Space Optimization SAS Server. Unless explicitly licensed, use of this software is limited to SAS Space Optimization SAS Server.

- Base SAS software
- SAS Integration Technologies software
- SAS/ACCESS engine of choice (Oracle or DB2)
- SAS/GRAPH software
- SAS/OR software

Disk Space Required:

SAS Space Optimization SAS Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 table for more information.

Note: *If you have SAS 9.2 Foundation already installed, then the amount of disk space required to install SAS Space Optimization SAS Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Space Planning Software

The following products are included in SAS Space Planning SAS Server. Unless explicitly licensed, use of this software is limited to SAS Space Planning SAS Server.

- Base SAS software
- SAS Integration Technologies software
- SAS/ACCESS engine of choice (Oracle or DB2)
- SAS/GRAPH software

Disk Space Required:

SAS Space Planning SAS Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Space Planning SAS Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Strategy Management Server Software

The following products are included in SAS Strategy Management Server. Unless explicitly licensed, use of this software is limited to SAS Strategy Management Server.

- SAS Strategy Management Server software
- Base SAS software
- SAS Integration Technologies software
- SAS Metadata Bridges, three of choice
- SAS OLAP Server software
- SAS Solutions Services Data Server software
- SAS Strategy Management Enterprise software
- SAS/ACCESS engine of choice
- SAS/ACCESS Interface to MySQL software
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software
- SAS/GRAPH software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Strategy Management Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Strategy Management Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Text Miner for Desktop Software

SAS Enterprise Miner for Desktop software is a prerequisite for the installation of SAS Text Miner for Desktop.

The following products are included in SAS Text Miner for Desktop. Unless explicitly licensed, use of this software is limited to SAS Text Miner for Desktop.

- SAS Text Miner software
- SAS Text Miner language of choice

Disk Space Required:

SAS Text Miner for Desktop uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Text Miner for Desktop should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Text Miner Software

SAS Enterprise Miner is a prerequisite for SAS Text Miner Server and SAS Text Miner SAS Client.

SAS Text Miner Server

The following products are included in SAS Text Miner Server. Unless explicitly licensed, use of this software is limited to SAS Text Miner Server.

- SAS Text Miner for English software
- SAS Text Miner language of choice (if requested)

Disk Space Required:

The disk space required for the SAS Text Miner Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, the amount of disk space required to install the SAS Text Miner Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Text Miner SAS Client

The following products are included in SAS Text Miner SAS Client software. Unless explicitly licensed, use of this software is limited to SAS Text Miner SAS Client.

- SAS Text Miner for English software
- SAS Text Miner language of choice (if requested)

Disk Space Required:

The disk space required for the SAS Text Miner SAS Client is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install the SAS Text Miner SAS Client should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Underwriting Risk Management for Life Insurance Software

The following products are included in SAS Risk Management for Insurance Server. Unless explicitly licensed, use of this software is limited to SAS Risk Management for Insurance Server.

- SAS Risk Management for Insurance Server software
- SAS Underwriting Risk Management for Life Insurance Server software
- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS Risk Dimensions Server Component software
- SAS Risk Reporting Repository software
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Risk Management for Insurance Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Risk Management for Insurance Server should be decreased by the disk space of any of the above products that have been previously installed.*

In addition, if you install any of the available Risk Management for Insurance applications (up to and including all four), an additional minimum of 450 MB of disk space is required.

SAS Underwriting Risk Management for P&C Insurance Software

The following products are included in SAS Risk Management for Insurance Server. Unless explicitly licensed, use of this software is limited to SAS Risk Management for Insurance Server.

- SAS Risk Management for Insurance Server software
- SAS Underwriting Risk Management for P&C Insurance Server software
- Base SAS software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS Risk Dimensions Server Component software
- SAS Risk Reporting Repository software
- SAS/ACCESS engine of choice
- A second SAS/ACCESS engine of choice
- SAS/ACCESS Interface to ODBC software
- SAS/ACCESS Interface to PC Files software
- SAS/AF software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/IML software
- SAS/INSIGHT software
- SAS/OR software
- SAS/SHARE software
- SAS/STAT software

Disk Space Required:

SAS Risk Management for Insurance Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Risk Management for Insurance Server should be decreased by the disk space of any of the above products that have been previously installed.*

In addition, if you install any of the available Risk Management for Insurance applications (up to and including all four), an additional minimum of 450 MB of disk space is required.

SAS Visual Data Discovery Software

The following products are included in SAS Visual Data Discovery Server. Unless explicitly licensed, use of this software is limited to SAS Visual Data Discovery Server.

- Base SAS software
- SAS Integrations Technologies software
- Standard SAS/ACCESS engine of choice
- SAS/GRAPH software
- SAS/STAT software

Disk Space Required:

SAS Visual Data Discovery Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Visual Data Discovery Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Visual Data Discovery for Desktop Software

The following products are included in SAS Visual Data Discovery for Desktop. Unless explicitly licensed, use of this software is limited to SAS Visual Data Discovery for Desktop.

- Base SAS software
- SAS/GRAPH software
- SAS/STAT software

Disk Space Required:

SAS Visual Data Discovery for Desktop uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Visual Data Discovery for Desktop should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Warranty Analysis Software

The following products are included in SAS Warranty Analysis Server. Unless explicitly licensed, use of this software is limited to SAS Warranty Analysis Server.

- SAS Warranty Analysis Server software
- Base SAS software
- SAS Integration Technologies software
- Three SAS/ACCESS engines of choice (or one SAS/ACCESS engine of choice and one SAS Data Surveyor)
- SAS/CONNECT software
- SAS/GRAPH software
- SAS/QC software
- SAS/SHARE software
- SAS/STAT software

In addition, SAS Warranty Analysis Server includes the following servers from other offerings. Refer to the appropriate sections of this document for information about the composition of each.

- SAS Data Integration Server
- SAS Enterprise BI Server
- SAS Enterprise Miner Server
- SAS Text Miner Server, including a SAS Text Miner language of choice

Disk Space Required:

SAS Warranty Analysis Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation installed already, the amount of disk space required to install SAS Warranty Analysis Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS Web Analytics Software

The following products are included in SAS Web Analytics Server. Unless explicitly licensed, use of this software is limited to SAS Web Analytics Server.

- Base SAS software
- SAS Web Analytics software
- SAS Data Surveyor for Clickstream Data Server Components software
- SAS Enterprise Miner Server software
- SAS High-Performance Forecasting software
- SAS Integration Technologies software
- SAS OLAP Server software
- SAS/AF software
- SAS/CONNECT software
- SAS/ETS software
- SAS/GIS software
- SAS/GRAPH software
- SAS/OR Mathematical Programming Common Components software
- SAS/STAT software

Disk Space Required:

SAS Web Analytics Server uses the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 7 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then the amount of disk space required to install SAS Web Analytics Server should be decreased by the disk space of any of the above products that have been previously installed.*

SAS/ACCESS Interface to Aster nCluster Software

Base SAS is required for the installation of SAS/ACCESS Interface to Aster nCluster software.

Product Included: SAS/ACCESS Interface to Aster nCluster software

SAS/ACCESS Interface to Aster nCluster requires version 4 or later of the Aster nCluster ODBC driver and a bulk loader client, `ncluster_loader.exe`. To obtain the ODBC driver and bulk loader client, contact Aster Data Technical Support.

Refer to the *Configuration Guide for SAS® 9.2 Foundation for Microsoft® Windows® for x64* for details about where to install the ODBC driver and bulk loader client and how to configure your SAS software in order to work with them.

SAS/ACCESS Interface to DB2 Software

Base SAS is required for the installation of SAS/ACCESS Interface to DB2 software.

Products Included:

- SAS/ACCESS Interface to DB2 software
- SAS Accelerator Publishing Agent software

DBMS Product Required: DB2 Universal Database, Version 8.1 FixPak 4 or higher (64-bit libraries)

SAS/ACCESS Interface to DB2 can be installed on a DB2 server or on a DB2 client node with an installation of the DB2 Run-Time Client, DB2 Application Development Client, or DB2 Administration Client. In addition, DB2 Connect must be installed to connect to DB2 databases that reside on AS/400, VSE, VM, MVS, and OS/390 systems.

SAS/ACCESS Interface to Greenplum Software

Base SAS is required for the installation of SAS/ACCESS Interface to Greenplum software.

Product Included: SAS/ACCESS Interface to Greenplum software

SAS/ACCESS Interface to Greenplum requires the DataDirect Driver Manager and Driver for Greenplum. You must install these components before using SAS/ACCESS Interface to Greenplum. Contact SAS Technical Support for details about how to obtain these components.

SAS/ACCESS Interface to MySQL Software

Products Included:

- Base SAS software
- SAS/ACCESS Interface to MySQL software

DBMS Products Required:

- Any version of MySQL Client 4.1 or 5.0
- MySQL Server 5.0

For more information about SAS/ACCESS Interface to MySQL software, see the MySQL chapter in *SAS/ACCESS Software for Relational Databases: Reference*.

SAS/ACCESS Interface to Netezza Software

Base SAS is required for the installation of SAS/ACCESS Interface to Netezza software.

Software Included in SAS/ACCESS Interface to Netezza software:

- SAS/ACCESS Interface to Netezza software
- SAS Accelerator Publishing Agent software

SAS/ACCESS Interface to Netezza requires an ODBC driver from Netezza. To get the Netezza ODBC driver, release 3.1.4 or above, contact Netezza technical support at (877) 810-4441 or visit the Netezza customer support Web site, <http://www.netezza.com/support/login.cfm>.

SAS/ACCESS Interface to ODBC Software

Products Included:

- Base SAS software
- SAS/ACCESS Interface to ODBC software

DBMS Product Required: An ODBC driver for the data source from which you want to access data

Before you can use SAS/ACCESS Interface to ODBC software, an ODBC driver for the data source from which you want to access data is required. ODBC drivers are often available from DBMS vendors and other third party ODBC driver developers. The ODBC driver you choose may require additional DBMS software for network access. All required network software supplied by your database system vendor must be 64-bit-compliant.

If you are using the 32-bit version of base SAS, you must have the 32-bit version of the ODBC Driver for the data source. If you are using the 64-bit version of base SAS, you must have the 64-bit version of the ODBC Driver for the data source. For more information, refer to *Usage Note 32374: Determining whether you have SAS® 9.2 32-bit or SAS 9.2 x64 installed on Windows x64*, <http://support.sas.com/kb/32/374.html>.

For more information, see the *Configuration Guide for SAS 9.2 Foundation on Microsoft Windows for x64*.

SAS/ACCESS Interface to OLE DB Software

Products Included:

- Base SAS software
- SAS/ACCESS Interface to OLE DB software

DBMS Product Required: An OLE DB data source provider

Before you can use SAS/ACCESS Interface to OLE DB software, an OLE DB provider for the data source from which you want to access data is required. OLE DB providers are often available from DBMS vendors and other third party software vendors. The OLE DB provider you choose may require additional DBMS software for network access. All required network software supplied by your database system vendor must be 64-bit-compliant.

If you are using the 32-bit version SAS, you must have the 32-bit version of the OLE DB provider for the data source. If you are using the 64-bit version SAS, you must have the 64-bit version of the OLE DB provider for the data source. For more information, refer to *Usage Note 32374: Determining whether you have SAS® 9.2 32-bit or SAS 9.2 x64 installed on Windows x64*, <http://support.sas.com/kb/32/374.html>.

SAS/ACCESS Interface to Oracle Software

Products Required:

- Base SAS software
- SAS/ACCESS Interface to Oracle software

DBMS Products Required:

The user may install an Oracle client on the same box with the products listed above, or an Oracle server may be used in place of the Oracle client.

The minimum required Oracle client libraries release is Oracle 9i, Release 2.

If you are using the 32-bit version SAS, you must have the 32-bit version of the Oracle client libraries. If you are using the 64-bit version SAS, you must have the 64-bit version of the Oracle client libraries. For more information, refer to *Usage Note 32374: Determining whether you have SAS® 9.2 32-bit or SAS 9.2 x64 installed on Windows x64*, <http://support.sas.com/kb/32/374.html>.

Note: In order to use the Bulk Load feature of this SAS product, you must have Oracle's SQL*Loader data loading utility installed. This utility can be obtained by running the Oracle installer and selecting the Oracle Utilities product. Refer to your Oracle documentation for information on SQL*Loader.

SAS/ACCESS Interface to PC Files Software

Products Included:

- Base SAS software
- SAS/ACCESS Interface to PC Files software
- SAS PC Files Server, running on Windows 32-bit System or WOW64

DBMS Products Required on Windows

- Microsoft Office 2007 System Driver: Data Connectivity Components (ACE)
- Microsoft Data Access Components (MDAC), Version 2.8 or higher

SAS/ACCESS Interface to PC Files software supports access to many different file formats files on Windows. Because Microsoft does not support the 64-bit version of Microsoft ACE Components, SAS/ACCESS Interface to PC Files software supports access to Microsoft Access database files and Microsoft Excel workbook files using the Client Server Model solution.

To access Microsoft Access database files (.mdb or .accdb), Microsoft Excel workbook files (.xls, .xlsb, .xlsx or .xlsm) or any ODBC supported data sources, SAS/ACCESS Interface to PC Files software requires SAS PC Files Server running on a Windows 32-bit system or a Windows 64-bit system with a WOW (Windows-On-Windows) subsystem.

SAS/ACCESS Interface to Sybase Software

Products Included:

- Base SAS software
- SAS/ACCESS Interface to Sybase software

DBMS Products:

- Sybase Open Client SDK (Software Developers Kit) Software, Release 15
- Adaptive Server Enterprise, Release 11.x or higher is recommended.

Note: Sybase ASIQ, Release 12.x is not supported; SAS/ACCESS Interface to ODBC software must be used instead.

For more information about SAS/ACCESS Interface to Sybase software, refer to *SAS/ACCESS Software for Relational Databases: Reference*.

Note: If you want to access Microsoft SQL Server data, you will need to use SAS/ACCESS Interface to ODBC software.

For more information, refer to the ODBC software section of the chapter “SAS/ACCESS Interfaces” in the *Configuration Guide for SAS 9.2 Foundation for Microsoft Windows*.

SAS/ACCESS Interface to Sybase IQ Software

Base SAS is required for the installation of SAS/ACCESS Interface to Sybase IQ software.

Product Included: SAS/ACCESS Interface to Sybase IQ software

SAS/ACCESS Interface to Sybase IQ requires an ODBC driver from Sybase. The Sybase IQ ODBC driver is included in the Sybase IQ Network Client. To obtain the IQ Network Client, release 12.7 or above, contact Sybase technical support at 1-800-8-SYBASE or visit the Sybase IQ Technical Resources Web site at

<http://www.sybase.com/products/datawarehousing/sybaseiq/technicalresources>.

SAS/ACCESS Interface to Teradata

Base SAS is required for the installation of SAS/ACCESS Interface to Teradata software.

Products Included:

- SAS/ACCESS Interface to Teradata software
- SAS Accelerator Publishing Agent software

DBMS Products Required:

- Teradata CLIv2 client libraries, TTU 12 or later for Windows
- Teradata BTEQ Client Libraries, TTU 12 or later for Windows

The following software is recommended:

- Teradata FastExport utility, TTU 12 or later for Windows
- Teradata MultiLoad utility, TTU 12 or later for Windows
- Teradata Parallel Transporter API, TTU 12 or later for Windows

If you are using the 32-bit version SAS, you must have the 32-bit version of the Teradata client. If you are using the 64-bit version SAS, you must have the 64-bit version of the Teradata client. For more information, refer to *Usage Note 32374: Determining whether you have SAS® 9.2 32-bit or SAS 9.2 x64 installed on Windows x64*, <http://support.sas.com/kb/32/374.html>.

For more information about SAS/ACCESS Interface to Teradata software, see the Teradata chapter in *SAS/ACCESS Software for Relational Databases: Reference*.

SAS/AF Software

Products Required for Build Mode:

- Base SAS software
- SAS/AF software
- SAS/GRAPH software (to create and display some graphics objects)

Other products may be required depending on the application.

Products Required for Run Mode:

- Base SAS software
- SAS/GRAPH software (to display some graphics objects)

Other products may be required depending on the application.

Printers:

- A color or gray-scale printer is required for printing graphics-based objects.
- Certain non-graphic objects may require SAS/GRAPH software to print depending on the object.

SAS/CONNECT Software

Product Included: Base SAS software

SAS/CONNECT software uses the TCP/IP access method and supports Microsoft's TCP/IP System Driver, which is provided with Windows for x64.

SAS/EIS Software

Products Required for Build Mode:

- Base SAS software
- SAS/AF software
- SAS/EIS software
- SAS/FSP software
- SAS/GRAPH software

Other products may be required depending on the application.

Products Required for Run Mode:

- Base SAS software
- SAS/GRAPH software
- SAS/EIS software

Other products may be required depending on the application.

Memory: 128 MB required

SAS/ETS Software

The use of ODS Graphics in SAS/ETS software requires a SAS/GRAPH license.

SAS/GIS Software

Products Required for Build Mode:

- Base SAS software
- SAS/AF software
- SAS/GIS software
- SAS/GRAPH software

Other products may be required depending on the application.

Products Required for Run Mode:

- Base SAS software
- SAS/FSP software
- SAS/GIS software
- SAS/GRAPH software

Other products may be required depending on the application.

Printers:

A color or gray scale printer is required. The list of possible printers can be found in the Graphics Hardware and Software Compatibility section on page 75.

Display: 256 color display adapter strongly recommended.

SAS/GRAPH Software

The 32-bit version of Internet Explorer, Version 6 SP2 or Version 7, is required to run the SAS/GRAPH ActiveX Graph Control from a Web browser. The ActiveX Graph control is not supported on the 64-bit version of Internet Explorer.

The 32-bit version of Internet Explorer, Version 6 SP2 or Version 7 is also required to run the SAS/GRAPH Java Applets from a Web browser.

SAS/IntrNet Software

SAS/IntrNet software consists of several components that may be installed independently. SAS/IntrNet Server software is installed on an existing SAS System and is included on SAS 9.2 media.

CGI Tools and Applications

Application Dispatcher:

Requires Base SAS software and SAS/IntrNet Server software. The Application Broker component of the Application Dispatcher must be installed on a Web server.

htmlSQL:

Requires Base SAS software, SAS/SHARE software, and a SAS/IntrNet software license (SETINIT). The htmlSQL component must be installed on a Web server.

MDDB Report Viewer Application:

Requires Base SAS software; SAS/GRAPH software; SAS/IntrNet software; and SAS/EIS software or SAS OLAP Server software. The Application Dispatcher component must be installed and configured.

Xplore Sample Web Application:

Requires Base SAS software and SAS/IntrNet Server software. The Application Dispatcher component must be installed and configured.

Design-Time Controls:

Requires Base SAS software and SAS/IntrNet Server software. The Application Broker component of the Application Dispatcher must be installed on a Web server.

Java Tools and Applications

SAS/CONNECT Driver for Java:

Requires Base SAS software, SAS/CONNECT software, and SAS/IntrNet Server software. SAS/SHARE software must also be installed if data services are used. The Java Tools package must be installed on a Web server or a client system.

Tunnel Feature:

Must be installed on a Web server running on a UNIX or Windows system.

SAS/LAB Software

Products Included:

- Base SAS software
- SAS/FSP software (required for interactive data entry)
- SAS/GRAPH software
- SAS/LAB software

SAS/OR

The use of traditional graphics in SAS/OR software requires a SAS/GRAPH license.

SAS/QC

The use of ODS Graphics and traditional graphics in SAS/QC software requires a SAS/GRAPH license.

SAS/SHARE Software

Product Included: Base SAS software

SAS/SHARE software uses the TCP/IP access method and supports Microsoft's TCP/IP System Driver, which is provided with Windows for x64.

SAS/STAT Software

Product Included: Base SAS software.

The use of ODS Graphics in SAS/STAT software requires a SAS/GRAPH license.

SAS/TOOLKIT Software

Products Included:

- Base SAS software
- A compiler

The only language with a Production status for SAS/TOOLKIT software is C. Other languages have a Beta status.

Graphics Hardware and Software Compatibility

Printers

SAS/GRAPH software supports PostScript, HP-GL, HP-GL/2, PCL, and other printer languages on printers from manufacturers such as Brother, Canon, Hewlett-Packard, IBM, Konica Minolta, Lanier, Lexmark, Okidata, QMS, Ricoh, Sharp, Xante, and Xerox.

SAS/GRAPH software supports any printer that you are using with Microsoft Windows for x64 via the WINPRTM(for monochrome printers), WINPRTG (for printers that support gray-scale shading), and WINPRTC (for color printers) device drivers.

Here is a partial list of printers that SAS/GRAPH software supports with native device drivers:

- CalComp ColorMaster, ColorMaster Plus, PlotMaster
- Canon Bubble Jet, Laser Shot
- Digital printers which support either SIXEL, HP PCL, Tektronix, or PostScript emulation modes
- Epson FX and LQ series printers (and all printers running in Epson emulation mode)
- Hewlett-Packard LaserJet, DeskJet, PaintJet, and DesignJet printers (and compatibles)
- IBM Graphics, Proprinter, and ColorJet printers
- PostScript printers (including color and gray-scale PostScript printers)
- QMS Colorgrafix with CGM interpreter
- QMS 800, 1200, 1500, 2200, and 2400 using QUIC or Tektronix emulation modes
- Talaris 800, 802, 1200, 1500, and 2400 using QUIC or Tektronix emulation modes
- Talaris printers using the EXCL language
- Tektronix Phaser printers (all models)
- Tektronix 4693 printers with Tektronix 4510 rasterizer
- Xerox 2700 and 4045 printers with a GRAPHX cartridge
- Xerox 3700 (with imaging board and at least 1M of memory)
- Xerox 4030 (contact Technical Support), 4213, 4235, and 4700
- Xerox 4700 printer
- Xerox 5775 color copier with an EFI Fiery attachment

Native drivers may also be available for additional printers not listed above and that do not support PostScript, HP-GL, or HP PCL. Contact SAS Technical Support for additional information on these drivers.

Images and Interfaces to Other Software

Included with SAS/GRAPH software are drivers that can produce Computer Graphics Metafiles (CGM) in binary, character, and clear-text formatted output for use by devices or software that support CGM, such as Word for Windows, WordPerfect for Windows, Harvard Graphics, and Lotus Freelance.

SAS/GRAPH software can generate encapsulated PostScript vector files, which can be exported to word processing packages such as Microsoft Word and WordPerfect.

SAS/GRAPH software can also generate Windows metafiles that can be exported to numerous packages including Microsoft Office, Lotus Smart Suite, and Perfect Office. Contact SAS Technical Support for details.

SAS/GRAPH software's HPGL or HPGL2 driver can be used to produce files which can be transferred to most vector-based drawing programs such as CorelDraw and Micrografx Designer.

SAS/GRAPH software also has drivers for PDF and SVG along with image file formats of BMP, DIB, EMF, EPSI, PBM, PPM, GIF, JPEG, EMF, WMF, PNG, TIFF, and PaintBrush image formats.

In addition, SAS/GRAPH software can import graphics in the following formats:

- * BMP - Microsoft Windows Bitmap
- * DIB - Device Independent Bitmap
- * EMF - Microsoft NT Enhanced Metafile
- * EPSI - Encapsulated PostScript Interchange
- * GIF - Graphics Interchange Format
- * JPG - JPEG Files
- * PBM - Portable Bitmap
- * PCD - PHOTO CD
- * PCX - PC PaintBrush
- * PNG - Portable Network Graphics
- * TGA - TARGA Format
- * TIF - Tagged Image File Format
- * WMF - Microsoft Windows Metafile Format
- * XBM - X Window Bitmaps
- * XWD - X Window Dump

Viewing HTML Pages Created with the ActiveX and Java Device Drivers

The ActiveX and Java device drivers allow you to create HTML pages from within SAS 9.2 Foundation.

Refer to the "SAS/GRAPH Software" section on page 72 for a list of browsers with which you can view HTML pages on this operating environment.

To view the Java applets, the Java plug-in must be installed on each client machine. On Windows systems, the user can install the plug-in when prompted if it is not already installed.



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