

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



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System Requirements for SAS 9.2 Foundation for Microsoft® Windows®

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Some software included in SAS Foundation may display a release number other than 9.2

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Using the System Requirements

This document provides requirements for installing and running 32-bit SAS 9.2 Foundation for Windows. You must update your system to meet the minimum requirements before running SAS 9.2.

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, please visit the SAS Install Center Web site, <http://support.sas.com/documentation/installcenter>.

Resources for Other Windows Deployments

For information about 64-bit SAS 9.2 Foundation for Windows, please refer to *System Requirements for SAS 9.2 Foundation for Microsoft Windows for x64* 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, please 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, please check with your system administrator.

Server Operating Systems

Microsoft Windows Server 2008 Family

SAS 9.2 Foundation is supported on the following 32-bit and 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 32-bit and 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 32-bit Family

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

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

SAS 9.2 Foundation is supported on all 32-bit editions of the Microsoft Windows Server 2003 family:

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

Microsoft Windows Server 2003 x64 Family

SAS 9.2 Foundation is supported on the following editions the Microsoft Windows x64 family:

- Microsoft® Windows® Server 2003 for x64 systems, Standard Edition
- Microsoft® Windows® Server 2003 for x64 systems, Enterprise Edition
- Microsoft® Windows® Server 2003 for x64 systems, Datacenter Edition

Client Operating Systems

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

- Microsoft® Windows® XP Professional, updated with Service Pack 2
- Microsoft® Windows® Vista - Enterprise, Business, and Ultimate Editions

Microsoft Windows XP and Microsoft Windows Vista x64 products:

- 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.

Network Installation

Long filename support is required on any Novell Server where a server installation is performed.

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/EIS |
| • SAS/ACCESS Interface to Greenplum
(included Oct2009 ship event) | • SAS/ETS |
| • SAS/ACCESS Interface to Informix | • SAS/FSP |
| • SAS/ACCESS Interface MySQL | • SAS/GRAPH |
| • SAS/ACCESS Interface to MS SQL Server | • SAS/IML |
| • SAS/ACCESS Interface to ODBC | • SAS/INSIGHT |
| • SAS/ACCESS Interface to PC Files | • SAS/LAB |
| • SAS/ACCESS Interface to Sybase | • SAS/OR |
| • SAS/AF | • SAS/QC |
| • SAS/ASSIST | • SAS/SECURE |
| • SAS/CONNECT | • 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, please refer to SAS Knowledge Base / System Requirements, <http://support.sas.com/resources/sysreq/hosts/pc/>.

Hardware Requirements

SAS 9.2 Foundation on Microsoft Windows

Please note the following requirements for installation of SAS 9.2 Foundation for Windows.

Machines Supported

Intel or Intel-compatible Pentium 4 class processor (minimum required)

Memory Requirements

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, please 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.

Web Browser

A Web browser is required to use two features of SAS 9.2 Foundation. This Web browser must be Internet Explorer, Version 6, Service Pack 2 or higher.

1. Output is rendered as HTML pages using the SAS 9.2 Output Delivery System (ODS). Any Web browser can be used for basic viewing, but if Internet Explorer, Version 6, SP 2 (or higher) is used, ODS output can be viewed in an integrated browser window that functions as part of SAS 9.2 Foundation. Other browsers can be used to view ODS output in a separate application window.
2. 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 newer Windows applications. This format is very compact and provides extensive searching capabilities. The highest level of functionality is available when Internet Explorer, Version 6, SP 2 (or higher) is installed.

Note: *These two features of SAS 9.2 Foundation require Internet Explorer Version 6, SP 2 (or higher) because that browser enables the most completely functional user interface.*

SAS System Viewer

The SAS System Viewer is an application intended for the Windows environment 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 9.2 Foundation 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.

The SAS System 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 System 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, SAS 9.1.3, 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 the SAS System Viewer requires about 4.8 MB of disk space.

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, Microsoft Outlook Express, or Lotus Notes 4.0 (32-bit version only) and above. SMTP email server access via MAPI requires an Internet connection.

Lotus Notes

The Lotus Notes access method, NOTESDB, allows populating new documents directly to Lotus Notes from SAS 9.2 Foundation. The NotesSQL ODBC driver allows Lotus Notes documents to be accessed from within SAS 9.2. An installed license of Lotus Notes Desktop is required. SAS 9.2 Foundation supports the 32-bit version of Lotus Notes 4.0 or later.

System Requirements Wizard

The System Requirements Wizard ensures that your computer meets the minimum system requirements before you install SAS 9.2 Foundation. Space requirements will vary depending upon the third-party components and the individual files on your computer that need to be updated. The System Requirements Wizard will inform you of the components that do not meet the minimum system requirements before updating them.

The following table shows which updates the System Requirements Wizard performs on the supported versions of Windows.

- Use of the term *Family* here implies workstation, professional and server editions of these operating systems.
- If a cell is labeled *No*, the required version of the update is already included in the operating system(s) identified by the column. The update item listed to the left will not be installed by the System Requirements Wizard.

Update	Windows XP Professional*	Windows Server 2003*	Windows Vista and Server 2008	Windows 7 and Server 2008 R2
Microsoft Custom Controls Library 5.80.2614.3600	No	No	No	No
Microsoft Data Access Components (MDAC) 2.7	No	No	No	No
Microsoft HTML Help Control 4.74.8875	No	No	No	No
Microsoft Jet 4.0 Components (Service Pack 6)	Yes**	No	Yes***	Yes***
SAS JRE 1.5.0_12 ****	Yes	Yes	Yes	*****
Microsoft Shell Folder Service 5.50.4027.300	No	No	No	No
Visual C++ 6.0 Redistributables Bundle	No	No	No	No
Visual C++ 7.0 Redistributables Bundle	Yes	Yes	Yes	Yes
Visual C++ 2005 Redistributable Package (x86)	Yes	Yes	Yes	Yes

* This column also refers to the x64 Edition(s).

** The x64 operating system already includes a newer version of this component.

*** The Vista and Windows 7 operating systems already include a newer version of this component.

**** All SAS Foundation products are required to use the same Java Runtime Environment if it is available on a particular machine. For SAS 9.2 Foundation, the System Requirements Wizard will install the Java 5 Update 12.

***** 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, please refer to Installation Note 40501: "SAS 9.2 requires JRE 1.6.0_14 32-bit on Microsoft Windows 7 system and JRE 1.6.0_23 32-bit on Microsoft Windows Server 2008 R2 system" at <http://support.sas.com/kb/40/501.html>.

SAS Administrator Wizard

The SAS Administrator Wizard is intended for administrators who want to prepare an installation point on the network from which end users may later install SAS 9.2 Foundation. In addition to the space required by SAS 9.2 Foundation products, the SAS Administrator Wizard places up to an additional 336 MB of installation-related files at the installation point:

- Autorun 2 MB
- SAS Setup Files 4.5 MB
- SAS Viewer Setup 4 MB
- System Requirements Wizard 320 MB
- SAS Administrator Wizard 3 MB
- Installation Instructions Documentation 2.5 MB

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. The SAS Service Configuration Utility is available from the SAS 9.2 Utilities folder on the SAS Start Menu.

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 this release of 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	1167.8
SAS Activity-Based Management Adapter for SAP Software	3.2
SAS Credit Scoring Software	1.0
SAS Data Quality Server	37.2
SAS Integration Technologies Software	76.2
SAS Integration Technologies Client Software	27.5
SAS Interface to Bloomberg Software	0.5
SAS IT Management Adapter for SAP Software	1.3
SAS OLAP Server Software	8.5
SAS Risk Dimensions	9.1
SAS Spend Analysis Server Software	0.4
SAS/ACCESS Interface to DB2/UDB Software	1.0
SAS/ACCESS Interface to HP Neoview Software	0.7
SAS/ACCESS Interface to MySQL	0.7
SAS/ACCESS Interface to Netezza Software	0.8
SAS/ACCESS Interface to ODBC Server Software	1.2
SAS/ACCESS Interface to OLE DB Software	0.9
SAS/ACCESS Interface to Oracle Software	1.4
SAS/ACCESS Interface to PC Files Software	9.6
SAS/ACCESS Interface to R/3 Software	5.4
SAS/ACCESS Interface to Sybase Software	1.4
SAS/ACCESS Interface to Teradata Software	1.2
SAS/AF Software	5.2
SAS/ASSIST Software	20.4
SAS/CONNECT Software	2.9
SAS/EIS Software	25.5
SAS/ETS Software	82.2
SAS/FSP Software	2.0
SAS/Genetics Software	6.8
SAS/GIS Software	63.4
SAS/GRAPH Software	677.8
SAS High-Performance Forecasting Software	13.5

Software Product	Disk Space (in MB)
SAS/IML Software	22.2
SAS/INSIGHT Software	17.2
SAS/IntrNet Software	6.3
SAS/LAB Software	8.0
SAS/OR Software	48.9
SAS/QC Software	122.9
SAS/SECURE Software	1.0
SAS/SHARE Software	1.2
SAS/STAT Software	151.0
SAS/TOOLKIT Software	5.8
SAS/Warehouse Administrator Software	22.7

Note about the Space Requirements Table

- * Base SAS Shared Components and SAS/GRAPH Shared Components are specific components shipped with SAS 9.2 Foundation for Windows. The components are intended to be shared with an installation of SAS Enterprise Guide software on the same machine. The Shared Components installation location is selectable the first time shared components are installed and is fixed for all subsequent installations of shared components. It is typically under C:\Program Files\SAS\Shared Files.

Installation Resource	Disk Space (in MB)
Installation Documentation	13.0
SAS Administrator Wizard	6.2
SAS Setup Files	4.5
SAS Software Navigator	55.0
System Requirements Wizard	340.0

DBCS Support

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

Software Product - DBCS Support	Disk Space (in MB)*
Core of the SAS 9.2 DBCS Support Files	13.3
SAS/ACCESS Interface to DB2 DBCS Support Files	0.4
SAS/ACCESS Interface to ODBC DBCS Support Files	0.4
SAS/ACCESS Interface to Oracle DBCS Support Files	0.2
SAS/ACCESS Interface to PC Files DBCS Support Files	0.8
SAS/ACCESS Interface to Sybase DBCS Support Files	0.3
SAS/AF DBCS Support Files	0.2
SAS/CONNECT DBCS Support Files	0.6
SAS/EIS DBCS Support Files	0.2
SAS/FSP DBCS Support Files	0.3
SAS/GRAPH DBCS Support Files	2.3
SAS/INSIGHT DBCS Support Files	2.5
SAS/LAB	0.8
SAS/QC DBCS Support Files	0.4

Software Product - DBCS Support	Disk Space (in MB)*
SAS/SHARE DBCS Support Files	0.1
SAS/STAT DBCS Support Files	0.7
Total	23.5

- * Actual disk space sizes have been rounded to the nearest tenth, so the values will differ slightly from the ones shown by the installer.

Asian Language Support

The following lists contain space requirements in MB for SAS 9.2 components that support Asian languages.

Languages Supported	Disk Space (in MB)*	See Table
Chinese – traditional	54.0	page 11
Chinese – simplified	186.0	page 11
Japanese	274.0	page 12
Korean	186.0	page 12

Traditional Chinese Support	Disk Space (in MB)*
Base SAS Traditional Chinese Support Files	3.1
SAS/GRAPH Traditional Chinese Support Files	72.6
Total	75.7

Simplified Chinese Support	Disk Space (in MB)*
Base SAS Simplified Chinese Support Files	49.6
SAS Data Quality Server Simplified Chinese Support Files	0.3
SAS Integration Technologies Simplified Chinese Support Files	0.2
SAS/ACCESS Interface to DB2 Simplified Chinese Support Files	0.1
SAS/ACCESS Interface to ODBC Server Simplified Chinese Support Files	0.1
SAS/ACCESS Interface to OLE DB Simplified Chinese Support Files	0.1
SAS/ACCESS Interface to Oracle Simplified Chinese Support Files	0.1
SAS/ACCESS Interface to PC Files Simplified Chinese Support Files	0.8
SAS/ACCESS Interface to Sybase Simplified Chinese Support Files	0.1
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/ETS Simplified Chinese Support Files	20.9
SAS/GIS Simplified Chinese Support Files	1.8
SAS/GRAPH Simplified Chinese Support Files	8.2
SAS/IML Simplified Chinese Support Files	2.8
SAS/INSIGHT Simplified Chinese Support Files	14.7
SAS/IntrNet Simplified Chinese Support Files	2.1

Simplified Chinese Support	Disk Space (in MB)*
SAS/LAB Simplified Chinese Support Files	0.6
SAS/OR Simplified Chinese Support Files	8.0
SAS/QC Simplified Chinese Support Files	10.1
SAS/SHARE Simplified Chinese Support Files	0.8
SAS/STAT Simplified Chinese Support Files	20.0
SAS/TOOLKIT Simplified Chinese Support Files	0.1
Total	146.3

Japanese Support	Disk Space (in MB)*
Base SAS Japanese Support Files	79.9
SAS Data Quality Server Japanese Support Files	0.3
SAS Integration Technologies Japanese Support Files	0.2
SAS/AF Japanese Support Files	2.0
SAS/ACCESS Interface to DB2 Japanese Support Files	0.1
SAS/ACCESS Interface to ODBC Server Japanese Support Files	0.1
SAS/ACCESS Interface to OLE DB Japanese Support Files	1.0
SAS/ACCESS Interface to Oracle Japanese Support Files	0.1
SAS/ACCESS Interface to PC Files Japanese Support Files	0.8
SAS/ACCESS Interface to Sybase Japanese Support Files	0.1
SAS/CONNECT Japanese Support Files	0.9
SAS/EIS Japanese Support Files	10.1
SAS/ETS Japanese Support Files	20.6
SAS/GIS Japanese Support Files	1.8
SAS/GRAPH Japanese Support Files	11.0
SAS/GRAPH Map Data Sets Japanese Support Files	2.1
SAS/IML Japanese Support Files	2.8
SAS/INSIGHT Japanese Support Files	14.7
SAS/IntrNet Japanese Support Files	2.1
SAS/LAB Japanese Support Files	0.4
SAS/OR Japanese Support Files	7.9
SAS/QC Japanese Support Files	9.0
SAS/SHARE Japanese Support Files	0.8
SAS/STAT Japanese Support Files	19.9
SAS/TOOLKIT Japanese Support Files	0.1
Total	188.8

Korean Support	Disk Space (in MB)*
Base SAS Korean Support Files	49.6
SAS Data Quality Server Korean Support Files	0.3
SAS Integration Technologies Korean Support Files	0.2
SAS/ACCESS Interface to DB2 Korean Support Files	0.1

Korean Support	Disk Space (in MB)*
SAS/ACCESS Interface to ODBC Server Korean Support Files	0.1
SAS/ACCESS Interface to OLE DB Korean Support Files	0.1
SAS/ACCESS Interface to Oracle Korean Support Files	0.1
SAS/ACCESS Interface to PC Files Korean Support Files	0.8
SAS/ACCESS Interface to Sybase 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/ETS Korean Support Files	20.9
SAS/GIS Korean Support Files	1.8
SAS/GRAPH Korean Support Files	8.3
SAS/IML Korean Support Files	2.8
SAS/INSIGHT Korean Support Files	14.7
SAS/IntrNet Korean Support Files	1.9
SAS/LAB Korean Support Files	0.6
SAS/OR Korean Support Files	8.0
SAS/QC Korean Support Files	10.3
SAS/SHARE Korean Support Files	0.8
SAS/STAT Korean Support Files	20.0
SAS/TOOLKIT Korean Support Files	0.1
Total	146.4

Notes about the Asian Language Support Tables

- * Actual disk space sizes have been rounded to the nearest tenth, so the values will differ slightly from the ones shown by the installer.
- ** Under Korean and Simplified Chinese Support, the installer incorrectly displays SAS OLAP Server as sample. Even though the sub-component is incorrectly identified, if selected, the SAS OLAP Server Korean and Simplified Chinese Support Files install correctly.

Using Asian Languages in a non-Asian Language Environment

Depending on the version of Microsoft Windows you are using, you may experience problems displaying Asian languages on an English operating system.

European Languages Support

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

European Languages Support	Disk Space (in MB)*	See Table
Czech	6.8	below
French	35.2	below
German	196.4	14
Hungarian	6.8	15
Italian	203.9	15
Polish	27.4	16
Russian	15.1	16
Spanish	21.4	16
Swedish	6.9	17

* Actual disk space sizes have been rounded to the nearest tenth, so the values will differ slightly from the ones shown by the installer.

Czech Support	Disk Space (in MB)
Base SAS Czech Support Files	4.5
SAS/ETS Czech Support Files	0.7
SAS/GRAPH Czech Support Files	0.2
SAS/OR Czech Support Files	0.5
SAS/QC Czech Support Files	0.2
SAS/STAT Czech Support Files	0.8
Total	6.9

French Support	Disk Space (in MB)
Base SAS French Support Files	24.1
SAS Data Quality Server	0.1
SAS/EIS French Support Files	8.6
SAS/ETS French Support Files	0.7
SAS/GRAPH French Support Files	0.3
SAS/OR French Support Files	0.5
SAS/QC French Support Files	0.2
SAS/STAT French Support Files	0.8
Total	35.3

German Support	Disk Space (in MB)*
Base SAS German Support Files	53.7
SAS Data Quality Server German Support Files	0.3
SAS/ACCESS Interface to DB2 German Support Files	0.1
SAS/ACCESS Interface to ODBC Server German Support Files	0.1

German Support	Disk Space (in MB)*
SAS/ACCESS Interface to OLE DB German Support Files	0.1
SAS/ACCESS Interface to Oracle German Support Files	0.1
SAS/ACCESS Interface to PC Files German Support Files	0.8
SAS/ACCESS Interface to Sybase German Support Files	0.1
SAS/AF German Support Files	1.9
SAS/CONNECT German Support Files	0.9
SAS/EIS German Support Files	1.7
SAS/ETS German Support Files	21.3
SAS/GIS German Support Files	1.8
SAS/GRAPH German Support Files	8.3
SAS/IML German Support Files	2.8
SAS/INSIGHT German Support Files	14.5
SAS/IntrNet German Support Files	1.9
SAS/LAB German Support Files	0.4
SAS/OR German Support Files	8.4
SAS/QC German Support Files	10.1
SAS/SHARE German Support Files	0.8
SAS/STAT German Support Files	20.7
SAS/TOOLKIT German Support Files	0.1
Total	150.9

Hungarian Support	Disk Space (in MB)
Base SAS Hungarian Support Files	4.5
SAS/ETS Hungarian Support Files	0.7
SAS/GRAPH Hungarian Support Files	0.2
SAS/OR Hungarian Support Files	0.5
SAS/QC Hungarian Support Files	0.2
SAS/STAT Hungarian Support Files	0.8
Total	6.9

Italian Support	Disk Space (in MB)*
Base SAS Italian Support Files	61.5
SAS Data Quality Server Italian Support Files	0.3
SAS Integration Technologies Italian Support Files	0.2
SAS/ACCESS Interface to DB2 Italian Support Files	0.1
SAS/ACCESS Interface to ODBC Server Italian Support Files	0.1
SAS/ACCESS Interface to OLE DB Italian Support Files	0.1
SAS/ACCESS Interface to Oracle Italian Support Files	0.1
SAS/ACCESS Interface to PC Files Italian Support Files	0.8
SAS/ACCESS Interface to Sybase Italian Support Files	0.1
SAS/AF Italian Support Files	1.9
SAS/CONNECT Italian Support Files	0.9
SAS/EIS Italian Support Files	1.7

Italian Support	Disk Space (in MB)*
SAS/ETS Italian Support Files	21.3
SAS/GIS Italian Support Files	1.8
SAS/GRAPH Italian Support Files	8.2
SAS/IML Italian Support Files	2.8
SAS/INSIGHT Italian Support Files	14.5
SAS/IntrNet Italian Support Files	1.9
SAS/LAB Italian Support Files	0.4
SAS/OR Italian Support Files	8.4
SAS/QC Italian Support Files	10.1
SAS/SHARE Italian Support Files	0.8
SAS/STAT Italian Support Files	20.7
SAS/TOOLKIT Italian Support Files	0.1
Total	158.8

Polish Support	Disk Space (in MB)
Base SAS Polish Support Files	24.7
SAS Data Quality Server	0.1
SAS/ETS Polish Support Files	0.7
SAS/GRAPH Polish Support Files	0.5
SAS/OR Polish Support Files	0.5
SAS/QC Polish Support Files	0.2
SAS/STAT Polish Support Files	0.8
Total	27.5

Russian Support	Disk Space (in MB)
Base SAS Russian Support Files	6.2
SAS/EIS Russian Support Files	6.4
SAS/ETS Russian Support Files	0.7
SAS/GRAPH Russian Support Files	0.4
SAS/OR Russian Support Files	0.5
SAS/QC Russian Support Files	0.2
SAS/STAT Russian Support Files	0.8
Total	15.2

Spanish Support	Disk Space (in MB)
Base SAS Spanish Support Files	18.9
SAS Data Quality Server	0.1
SAS/ETS Spanish Support Files	0.7
SAS/GRAPH Spanish Support Files	0.4
SAS/OR Spanish Support Files	0.5
SAS/QC Spanish Support Files	0.2
SAS/STAT Spanish Support Files	0.8

Spanish Support	Disk Space (in MB)
Total	21.6

Swedish Support	Disk Space (in MB)
Base SAS Swedish Support Files	4.5
SAS/ETS Swedish Support Files	0.7
SAS/GRAPH Swedish Support Files	0.2
SAS/OR Swedish Support Files	0.5
SAS/QC Swedish Support Files	0.2
SAS/STAT Swedish Support Files	0.8
Total	6.9

SAS/GRAPH Map Data Sets

Data Set	Required Disk Space
Countries in Africa and Middle East Maps	7.2
Countries in Asia and Pacific Maps	22.0
Countries in Europe Maps	16.2
North America Maps	5.5
Countries in Latin America and Caribbean Maps	7.0
Canada Maps	1.9
Continents Maps	25.7
World Map	25.7
Very Large US County Map, Unprojected	12.5
Large US County Map, Unprojected and Reduced	1.5
Large US Mainland County Map, Projected and Reduced	1.5
Large US State Outline Map, Unprojected	1.5
Total for all entries	128.2

Specific Product Requirements

Base SAS Software

Requirements for SPD Engine on Microsoft Windows:

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 for SAS Enterprise Miner Server:

SAS Enterprise Miner Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Enterprise Miner SAS Client:

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 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for Credit Scoring for SAS Enterprise Miner Desktop:

Credit Scoring for SAS Enterprise Miner Desktop is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 Software

The following products are included in JMP Clinical SAS Client. Unless explicitly licensed, use of this software is limited to JMP Clinical 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 for JMP Clinical SAS Client:

JMP Clinical SAS Client is the combined total space requirements for the SAS software products listed above. See the Space Requirements on page 9 for more information.

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

JMP Genomics

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

- 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 for JMP Genomics SAS Components:

JMP Genomics SAS Components is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then the amount of disk space required to install JMP Genomics 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 for SAS Activity-Based Costing Server:

SAS Activity-Based Costing Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page **Error! Bookmark not defined.** for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Activity-Based Management Data Integration and Enterprise BI Server:

SAS Activity-Based Management Data Integration and Enterprise BI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Activity-Based Management – Select Edition SAS Server:

SAS Activity-Based Management – Select Edition SAS Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Anti-Money Laundering Alert Generation Server:

SAS Anti-Money Laundering Alert Generation Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Clinical Standards Toolkit Server:

SAS AppDev Studio Application Development Client is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Risk Management for Banking Server:

SAS Risk Management for Banking Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 Analytics 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 for SAS Banking Analytics Architecture Data Integration Server:

SAS Banking Analytics Architecture Data Integration Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Banking Analytics Architecture Enterprise BI Server:

SAS Banking Analytics Architecture Enterprise BI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS BI Server:

SAS BI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS BookRunner Advanced Analytics Server:

SAS BookRunner Advanced Analytics Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS BookRunner Analytics Workbench Server:

SAS BookRunner Analytics Workbench Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS BookRunner Commodity Capture Server:

SAS BookRunner Commodity Capture Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Campaign Management Server:

SAS Campaign Management Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 Clinical Data Integration Software

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

- Base SAS software
- SAS Clinical Standards Toolkit Framework software
- SAS Integration Technologies software
- SAS/CONNECT software

Disk Space Required for SAS Clinical Data Integration Server:

SAS Clinical Data Integration Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

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

SAS Clinical Standards Toolkit Software

Base SAS is a prerequisite for the installation of SAS Clinical Standards Toolkit software.

Software included in SAS Clinical Standards Toolkit Server:

SAS Clinical Standards Toolkit Framework software is included in SAS Clinical Standards Toolkit Server software. Unless explicitly licensed, use of this software is limited to SAS Clinical Standards Toolkit Server software.

Disk Space Required for SAS Clinical Standards Toolkit Server:

SAS Clinical Standards Toolkit Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then the amount of disk space required to install SAS Clinical Standards Toolkit 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 for SAS Risk Management for Banking Server:

SAS Risk Management for Banking Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Credit Risk Management for Banking Server:

SAS Credit Risk Management for Banking Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Credit Scoring for Banking Server:

SAS Credit Scoring for Banking Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Data Integration Server:

SAS Data Integration Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Data Mining for the Classroom:

SAS Data Mining for the Classroom is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Data Surveyor for Clickstream Data Server:

SAS Data Surveyor for Clickstream Data Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Data Surveyor for Oracle Applications:

SAS Data Surveyor for Oracle Applications is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Data Surveyor for PeopleSoft:

SAS Data Surveyor for PeopleSoft is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Data Surveyor for Salesforce.com:

SAS Data Surveyor for Salesforce.com is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Data Surveyor for SAP:

SAS Data Surveyor for SAP is the combined total space requirements for the SAS software products listed above. See the Space Requirements on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Data Surveyor for Siebel:

SAS Data Surveyor for Siebel is the combined total space requirements for the SAS software products listed above. See the Space Requirements on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Digital Marketing SAS Server:

SAS Digital Marketing SAS Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 Drug Development File Access Software

The following products are included in SAS Drug Development File Access. Unless explicitly licensed, use of this software is limited to SAS Drug Development File Access.

- Base SAS software
- SAS/ACCESS Interface to PC Files software
- SAS/CONNECT software

Disk Space Required for SAS Drug Development File Access software:

SAS Drug Development File Access is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then the amount of disk space required to install SAS Drug Development File Access 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 for SAS Enterprise BI Server:

SAS Enterprise BI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements on page 9 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then 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 for SAS Enterprise Data Integration Server:

SAS Enterprise Data Integration Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then 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 for SAS Enterprise GRC Server:

SAS Enterprise GRC Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 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 for SAS Enterprise Miner Server 4.3 and 6.2:

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 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 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 for SAS Enterprise Miner SAS Client 4.3: 1 GB required.

Disk Space Required for SAS Enterprise Miner SAS Client 4.3:

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 9 for more information.

***Note:** If you have SAS 9.2 Foundation already installed, then 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 for SAS Enterprise Miner for Desktop:

SAS Enterprise Miner for Desktop is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Fair Banking Server:

SAS Fair Banking Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Fair Banking Data Integration and Enterprise BI Server:

SAS Fair Banking Data Integration and Enterprise BI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: If you have SAS 9.2 Foundation already installed, then 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 for SAS Financial Management Adapter for SAP Server:

SAS Financial Management Adapter for SAP Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: If you have SAS 9.2 Foundation installed already, then 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 for SAS Financial Management Server:

SAS Financial Management Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Risk Management for Banking Server:

SAS Risk Management for Banking Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Risk Management for Insurance Server:

SAS Risk Management for Insurance Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, 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 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 for SAS Forecast Server

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 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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. Please 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. Please 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 for SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server:

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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. Please 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 for SAS Fraud Framework Analytics SAS Client:

SAS Fraud Framework Analytics SAS Client is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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. Please 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. Please 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 for SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server:

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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. Please 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 for SAS Fraud Framework Analytics SAS Client:

SAS Fraud Framework Analytics SAS Client is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation already installed, then 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. Please 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. Please 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 for SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server:

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then 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. Please 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 for SAS Fraud Framework Analytics SAS Client:

SAS Fraud Framework Analytics SAS Client is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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. Please 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. Please 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 for SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server:

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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. Please 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 for SAS Fraud Framework Analytics SAS Client:

SAS Fraud Framework Analytics SAS Client is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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. Please 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. Please 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 for SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server:

SAS Fraud Framework Enterprise DI, Enterprise BI, and Analytics Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then 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. Please 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 for SAS Fraud Framework Analytics SAS Client:

SAS Fraud Framework Analytics SAS Client is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 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 for SAS Human Capital Management Server:

SAS Human Capital Management Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Information Delivery Portal software:

SAS Information Delivery Portal Server software is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Insurance Analytics Architecture Data Integration Server:

SAS Insurance Analytics Architecture Data Integration Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Insurance Analytics Architecture Enterprise BI Server:

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

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Inventory Optimization software:

SAS Inventory Optimization is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS IT Resource Management Server:

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 9 for more information.

Note: *If you have SAS 9.2 installed already, then 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.*

Other 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 for SAS Markdown Optimization Long Jobs Server:

SAS Markdown Optimization Long Jobs Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation already installed, then 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 for SAS Markdown Optimization Short Jobs Server:

SAS Markdown Optimization Short Jobs Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then 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 for SAS Risk Management for Banking Server:

SAS Risk Management for Banking Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Risk Management for Insurance Server:

SAS Risk Management for Insurance Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 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 for SAS Marketing Automation Server:

SAS Marketing Automation Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: If you have SAS 9.2 Foundation already installed, then 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 for SAS Marketing Optimization Server:

SAS Marketing Optimization Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 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, please see its System Requirements document available from Install Center (<http://support.sas.com/installcenter>).

Disk Space Required for SAS Merchandise Intelligence Common Transactions Server:

SAS Merchandise Intelligence Common Transactions Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 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 for SAS Metadata Server:

SAS Metadata Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 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 for SAS Model Manager Server:

SAS Model Manager Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Model Manager Report Registration Client:

SAS Model Manager Report Registration Client is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then 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 for SAS Offer Optimization for Communications Server:

SAS Offer Optimization for Communications Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 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 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 for SAS OpRisk VaR Consortium Server:

SAS OpRisk VaR Consortium Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: If you have SAS 9.2 Foundation installed already, then 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 for SAS OpRisk VaR Server:

SAS OpRisk VaR Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 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 for SAS Pack Optimization Long Jobs Server:

SAS Pack Optimization Long Jobs Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation already installed, then 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 for SAS Pack Optimization Short Jobs Server:

SAS Markdown Pack Short Jobs Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then 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 for SAS Profitability Management SAS Server:

SAS Profitability Management SAS Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Profitability Management Data Integration and Enterprise BI Server:

SAS Profitability Management Data Integration and Enterprise BI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: If you have SAS 9.2 Foundation installed already, then 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 for SAS Promotion Optimization Server:

SAS Promotion Optimization Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then 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 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 for SAS Regular Price Optimization Long Jobs Server:

SAS Regular Price Optimization Long Jobs Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then 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 for SAS Regular Price Optimization Short Jobs Server:

SAS Regular Price Optimization Short Jobs Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation already installed, then 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 Integration Technologies software
- SAS OLAP Server 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 for SAS Risk Dimensions Server:

SAS Risk Dimensions Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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

The 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

The 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 Scalable Performance Data Server Software

Base SAS is the prerequisite for the installation of SAS Scalable Performance Data Server software. Scalable Performance Data Client software is included with Base SAS.

Disk Space Required for SAS Scalable Performance Data Server Software:

SAS Scalable Performance Data Server Software is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

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

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 for SAS Service Parts Optimization Adapter for SAP Server:

SAS Service Parts Optimization Adapter for SAP Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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. Please 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 for SAS Service Parts Optimization Server:

SAS Service Parts Optimization Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Size Profiling Server:

SAS Size Profiling Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: If you have SAS 9.2 Foundation already installed, then 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 for SAS Social Network Analysis SAS Server:

SAS Social Network Analysis SAS Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 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. Please 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 for SAS Social Network Analysis Enterprise Data Integration and BI Server:

SAS Social Network Analysis Enterprise Data Integration and BI Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 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 for SAS Space Optimization SAS Server:

SAS Space Optimization SAS Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 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 for SAS Space Planning SAS Server:

SAS Space Planning SAS Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information..

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Strategy Management Server:

SAS Strategy Management Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Text Miner for Desktop:

SAS Text Miner for Desktop is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Text Miner Server:

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 9 for more information.

***Note:** If you have SAS 9.2 Foundation installed already, then 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 for SAS Text Miner SAS Client:

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 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Risk Management for Insurance Server:

SAS Risk Management for Insurance Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, 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 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 for SAS Risk Management for Insurance Server:

SAS Risk Management for Insurance Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, 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 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 for SAS Visual Data Discovery Server:

SAS Visual Data Discovery Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Visual Data Discovery for Desktop:

SAS Visual Data Discovery for Desktop is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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. Please 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 for SAS Warranty Analysis Server:

SAS Warranty Analysis Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 for more information.

Note: *If you have SAS 9.2 Foundation installed already, then 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 for SAS Web Analytics Server:

SAS Web Analytics Server is the combined total space requirements for the SAS software products listed above. See the Space Requirements table on page 9 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.

Please refer to the *Configuration Guide for SAS® 9.2 Foundation for Microsoft® Windows®* 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 HP Neoview Software

Products Required:

- Base SAS software
- SAS/ACCESS Interface to HP Neoview software
- Neoview ODBC driver, release 2.2 or later

SAS/ACCESS Interface to HP Neoview requires an ODBC driver from HP. To get the driver, go to <http://software.hp.com> and click “HP Neoview Platform” under “Our top featured products.”

SAS/ACCESS Interface to MySQL

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 or later

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

SAS/ACCESS Interface to Netezza

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, please 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 Products Required:

- A 32-bit ODBC driver for the data source from which you want to access data
- Microsoft Data Access Components (MDAC), Version 2.7 or higher

Before you can use SAS/ACCESS Interface to ODBC software, a 32-bit 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 32-bit-compliant.

Note: SAS 9.2 Foundation will automatically install Microsoft Data Access Components (MDAC) when you install SAS/ACCESS Interface to ODBC software.

Please see the *Configuration Guide for SAS 9.2 Foundation for Microsoft Windows* for the details of installation.

SAS/ACCESS Interface to OLE DB Software

Products Included:

- Base SAS software
- SAS/ACCESS Interface to OLE DB 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 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 32-bit-compliant.

Note: SAS 9.2 Foundation will automatically install Microsoft Data Access Components (MDAC) when you install SAS/ACCESS Interface to OLE DB software.

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.

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. Please 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

DBMS Products Required:

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

SAS 9.2 Foundation will automatically install Microsoft Data Access Components (MDAC) and Microsoft Office 2007 System Driver components (ACE) when you install SAS/ACCESS Interface to PC Files software.

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 12.5.x
- 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, please 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 8.2 or later for Windows
- Teradata BTEQ Client Libraries, TTU 8.2 or later for Windows

Note: *If you install SAS/ACCESS Interface to Teradata on a computer that uses any of the Microsoft Windows Vista editions, you will need a patch from Teradata to install TTU 8.2.*

The following software is recommended:

- Teradata FastExport utility, TTU 8.2 or later for Windows
- Teradata MultiLoad utility, TTU 8.2 or later for Windows
- Teradata Parallel Transporter API, TTU 8.2 or later for Windows

For more information about SAS/ACCESS Interface to Teradata software, please 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.
- Depending on the object, certain non-graphic objects may require SAS/GRAPH software to print.

SAS/CONNECT Software

Product Required: 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.

Note: The APPC access method is no longer supported for Windows.

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 85.

Display: 256-color display adapter is strongly recommended.

SAS/GRAPH Software

To run the SAS/GRAPH ActiveX Graph Control from a Web browser, you need Internet Explorer, Version 6.0 SP2 or greater.

To run the SAS/GRAPH Java Applets from a Web browser, you need either Internet Explorer, Version 6.0 SP2 or greater, or Firefox 3.0.6 or greater.

The SAS 9 SAS/GRAPH ActiveX Graph Control will be installed in the `<sashome install directory>\Shared Files\Graph\V9` directory.

To view SVG output, you need a browser capable of displaying SVG content, such as Mozilla 1.8+ based browsers such as Firefox 1.5+, a plug-in such as Adobe's SVG plug-in or an application such as Batik's SVG viewer.

Users need Adobe Reader to view PDF output.

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.

htmSQL

Requires Base SAS software, SAS/SHARE software, and a SAS/IntrNet software license (SETINIT). The htmSQL 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 Required:

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

SAS/OR Software

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

SAS/QC Software

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

SAS/SHARE Software

Product Required: 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.

Note: The APPC access method is no longer supported for Windows.

SAS/STAT Software

Product Required: Base SAS software.

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

SAS/TOOLKIT Software

Products Required:

- Base SAS software
- A compiler

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

SAS/Warehouse Administrator Software

Products Required for Build Mode:

- Base SAS software
- SAS/AF software (required only for API usage)

Products Required for Run Mode:

- Base SAS software
- Other products depending on application (e.g., SAS/ACCESS software for access to DBMS tables, SAS/CONNECT software for access to remote data, or SAS/AF software to access warehouse via method calls)

Printers:

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

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 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 that can then be imported into devices or software which supports CGM input, 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. Please 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, 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 82 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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