

System Requirements

Enterprise Guide[®] Software Release 1.2 Windows[®]

This document provides requirements for installing and running Enterprise Guide software. You must update your system to meet the minimum requirements before running Enterprise Guide software. The major requirements listed in the document are:

- Software Requirements
- Hardware Requirements
- Additional Features
- Space Requirements
- Specific Product Requirements

For additional information and to view the latest system requirements for your system, access the SAS Institute Web site at:

http://www.sas.com/software/enclosures/system_req.html

or contact SAS Institute Technical Support. Sites in the U.S. and Canada may call (919) 677-8008. Other sites should contact their SAS Installation Representative or SAS Support Consultant for the nearest SAS Institute office.

Software Requirements

Operating System

Windows 2000:

Release 1.2 of Enterprise Guide software is supported on Windows 2000 Professional and all Windows 2000 Server Editions. To insure that Enterprise Guide software can be completely and safely installed, it is strongly recommended that the installer have administrator privilege.

Windows NT and Windows NT Server:

Running Release 1.2 of Enterprise Guide software under Windows NT requires Windows NT, Version 4.0 updated with Service Pack 4 or higher (excluding Service Pack 6, which is superceded by Service Pack 6a), plus additional Year 2000 software updates as provided by Microsoft. Administrator privilege is required to install various system updates. To insure that Enterprise Guide software can be completely and safely installed, it is strongly recommended that the installer have administrator privilege.

Windows:

Release 1.2 of Enterprise Guide software is supported on Microsoft Windows 95, Microsoft Windows 98, and Microsoft Windows Me operating systems. Windows 95 must be updated with additional Year 2000 software updates as provided by Microsoft. Windows 98 must be updated *with* Service Pack 1 or *to* Windows 98, Second Edition.

File System Recommendations:

- The use of file systems supporting long filenames is required.
- For Windows NT, NTFS is recommended.

Network Installations:

Long filename support is required on any Windows NT Server, Windows 2000 Server, or Novell Server where a server installation is performed.

Hardware Requirements

Machines Supported

- Intel or Intel-compatible Pentium class processor (133MHz minimum)

Memory Requirements

- 32 MB minimum
- 32 MB minimum of swapfile space

Monitors Supported

- It is recommended that screen resolution be at least 800 x 600 pixels with a minimum of 256 colors.

Additional Features

Web Browser

Enterprise Guide software produces HTML output using ActiveX, Java, or GIF technology. ActiveX is supported only with Internet Explorer. You can view interactive graphs with either Internet Explorer or Netscape by using a Java-based applet (provided with Enterprise Guide), or you can view non-interactive graphs as GIF files.

The following browsers are minimum requirements for displaying output:

- Microsoft Internet Explorer, Version 5 (with Java VM 5.0.0.3167 or higher for displaying Java-based graph output)
- Netscape Navigator 4.07

The following features use Microsoft Internet Explorer technology and are available only if you have Internet Explorer installed on your machine:

- Viewing results in an integrated browser window within Enterprise Guide software. Other browsers can be used to view HTML results in a separate application window.
- Viewing Enterprise Guide Help, which is HTML based. Enterprise Guide software supports Microsoft HTML Help which can be viewed only with Internet Explorer. If you do not install Internet Explorer, then the setup program will install an uncompiled version of help files that can be viewed with your default web browser. However, this version of the help system lacks some features; for example, there is no facility to search the full text of the help.

Enterprise Guide software also includes a Getting Started tutorial. This tutorial uses the Microsoft HTML Help standard and is not available if you do not install Internet Explorer.

- Previewing styles in the Style Editor tool. If Internet Explorer is not available you can still use the Style Editor, but its interactive features will be limited.
- Previewing printer output of HTML results, if you have Internet Explorer, Version 5.5 or later installed. (Earlier versions of Internet Explorer do not support print preview.)

Only Internet Explorer, Version 5 (or higher) enables the most complete functional user interface. For that reason, the use of Enterprise Guide software with Internet Explorer, Version 5 (or higher) is *strongly recommended*.

For your convenience, an installable version of Internet Explorer, Version 5 is included with Release 1.2 of Enterprise Guide Software for Windows. If Enterprise Guide Setup detects that Internet Explorer, Version 5 is not already installed, it will prompt the user to accept its installation. The installation of this Web browser will update certain Microsoft system files that will reduce the number of reboots required during the remainder of the installation of Enterprise Guide software. For this reason, we recommend that the installation of Internet Explorer, Version 5 be accepted. Installation of this Web browser will not change the default Web browser settings. It can co-exist with Netscape and other Web browsers that may be on your system.

If you are using an older version of Internet Explorer as your default browser, you will notice a change to your system. In this case, Internet Explorer is upgraded to Version 5.

Electronic Mail

Enterprise Guide software sends e-mail using the MAPI subsystem, and requires the installation of third party products such as Microsoft Exchange, Outlook, Lotus ccMail 8.1 (32-bit version only), or Lotus Notes 4.0 (32-bit version only) and above. SMTP email server access via MAPI requires an Internet connection.

Rich Text (RTF) Viewer

Enterprise Guide software, when used in conjunction with Release 8.2 of the SAS System, can produce RTF (Rich Text Format) output. Enterprise Guide software can display this output within an integrated window. If you have Microsoft Word 97 or Microsoft Word 2000 installed, Enterprise Guide software will use components from Microsoft Word to render the RTF results; this should provide the best viewing experience for RTF output.

If you do not have Microsoft Word installed, or if you elect (through Enterprise Guide preferences) to not use it as an internal viewer, Enterprise Guide software can still render the RTF results in an integrated window. It will use a system-provided RTF viewer (similar to that used in the Wordpad application that is supplied with Windows). This RTF viewer does not have as many capabilities to render text and graphics as Microsoft Word does.

Portable Document Format (PDF) Viewer

Enterprise Guide software, when used in conjunction with Release 8.2 of the SAS System, can produce PDF files that can be viewed with the Adobe Acrobat Reader application. You can download the Adobe Acrobat Reader for free from <http://www.adobe.com>. If you have Acrobat Reader 4.0 or later installed, Enterprise Guide software can display PDF output in an integrated window. You can also choose (through Enterprise Guide preferences) to view the PDF output in a separate Acrobat Reader window, external to Enterprise Guide software.

System Requirements Wizard

The System Requirements Wizard is used to ensure that a computer onto which you would like to install the SAS System meets the minimum system requirements. 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 versions of Windows that are supported.

Update	Windows 95	Windows 98	Windows NT	Windows 2000	Windows Me
Microsoft Shell Folder Service 5.50.4027.300	Yes	Yes	Yes	No	No
Microsoft Internet Explorer 5.0	Yes	Yes	Yes	Yes	No
Microsoft Distributed Component Object Model 1.2	Yes	No	No	No	No
Microsoft Distributed Component Object Model Utility 1.2	Yes	No	No	No	No
Microsoft Custom Controls Library 5.80.2614.3600	Yes	Yes	Yes	No	No
Microsoft HTML Help Control 4.74.8875	Yes	Yes	Yes	No	No
Microsoft Data Access Components (MDAC) 2.5	Yes	Yes	Yes	No	No
Microsoft Jet 4.0 Components	Yes	Yes	Yes	No	No
Microsoft Agent 2.0	Yes	Yes	Yes	Yes	Yes
TruVoice Engine Component for Microsoft Agent 2.0	Yes	Yes	Yes	Yes	Yes
Microsoft Runtime Components	Yes	Yes	Yes	Yes	Yes
Microsoft Active Directory Service Interfaces (ADSI) 2.5	Yes	Yes	Yes	No	Yes

Space Requirements

The following list contains space requirements in MB for Enterprise Guide software. Use this information to help you determine how much free disk space you must have available before you can install Enterprise Guide software. Disk space requirements will vary depending upon the blocking factor and compression algorithms that are in use on the installation disk drive.

Software Product	Enterprise Guide Software	Enterprise Clients /SAS Common ¹	Microsoft
Enterprise Guide Software	15.2		
SAS Syntax Help	9.0 ²		
Common		33.5	
Images		12.0 ²	
Microsoft's MDAC Support and ADSI Support			17.0
Microsoft's Internet Explorer			23.0
Total	24.2	45.5	40.0

1. Enterprise Clients/SAS Common includes files that are shared between Enterprise Clients products and Version 8 and later releases of the SAS System.
2. Optional

Specific Product Requirements

Accessing Local ODBC Data

DBMS Products Required:

- A 32-bit ODBC driver for the data source from which you want to access data

Note: Before you can use Enterprise Guide software to access ODBC data, 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.

Accessing Local OLE DB Data

DBMS Products Required:

- An OLE DB data source provider

Note: Before you can use Enterprise Guide software to access OLE DB data, 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.

Connecting to Remote SAS Servers via IOM Bridge for COM

IOM Bridge for COM requires the installation of Microsoft's TCP/IP networking protocol, which is provided with all supported versions of Windows.

Product Requirements for the SAS Server

Enterprise Guide software, Release 1.2 is compatible with all releases of Version 8 of the SAS System. However, certain features of Enterprise Guide software, Release 1.2 are only available when used with later releases of the SAS System. For example, Version 8 (TS M0) users will not be able to use Enterprise Guide software to create and navigate MDDB tables surfaced by SAS/MDDB Servers. It is recommended that all SAS System users migrate to Release 8.2 of the SAS System.

The SAS System, Release 8.2 (TS2M0) is the recommended SAS Server.

The SAS System, Version 8 (TS M0) is the minimum requirement SAS Server.

Product	Required for all releases in Version 8 of the SAS System	Recommended for Release 8.1 (TS1M0) and Release 8.2 (TS2M0)	Recommended for the SAS System, Version 8 (TS M0)
Base SAS Software	√		
SAS Integration Technologies Software ¹	√		
SAS/STAT Software		√	√
SAS/GRAPH Software		√	√
SAS/GRAPH Map Data Sets		√	√
SAS/ETS Software		√	√
SAS/MDDB Server Software		√	
SAS/QC Software		√	√
SAS/SECURE 168-bit Software ²		√	

1. SAS Integration Technologies software is not required when accessing a SAS server running on the same PC as the client software (a local server), unless you intend to use certain SAS Integration Technologies features, such as Publish.
2. SAS/SECURE 168-bit software is required to establish certain encrypted sessions between Enterprise Guide software and the SAS Server. A proprietary weak encryption is supported without the use of SAS/SECURE 168-bit software.

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