

Installation Instructions and System Requirements for Enterprise Miner™ Software, Version 3.0

For the latest installation and system requirements information on Enterprise Miner software, download the **Installation Instructions and System Requirements** from the documentation section of the Enterprise Miner software home page, located at:

<http://www.sas.com/software/components/miner.html>.

Table of Contents

<i>Glossary</i>	1
I. Overview of Enterprise Miner Software, Version 3.0	2
Enterprise Miner Software	2
Enterprise Miner Software - Client/Server Functionality	2
Enterprise Miner Software Documentation	3
II. System Requirements	4
Server UNIX Platforms	4
Server Windows Platforms	5
Client Windows Platforms	5
III. Enterprise Miner Software Packaging	7
Windows Server and Windows Clients: New Enterprise Miner Software Users	7
UNIX Server and Windows Clients: New Enterprise Miner Software Users	8
Windows Server and Windows Clients: Enterprise Miner Software, Version 2.0x Users Upgrading to Version 3.0	9
UNIX Server and Windows Clients: Enterprise Miner Software, Version 2.0x Users Upgrading to Version 3.0	9
IV. Installing and Configuring Enterprise Miner Server Software on the UNIX Platforms	11
Installing the SAS System for Enterprise Miner Server Software	11
Installing Enterprise Miner Server Software	12
Applying Enterprise Miner Software Updates to your Enterprise Miner Server Software	14
Configuring Enterprise Miner Server Software	14
Uninstalling Enterprise Miner Server Software	15
V. Installing and Configuring Enterprise Miner Server Software on the Windows NT Platform	16
Installing the SAS System for Enterprise Miner Server Software	16
Applying Release 6.12 Maintenance to Your SAS System for Enterprise Miner Server Software	17
Installing Enterprise Miner Server Software	17
Testing Enterprise Miner Server Software	18
Applying Enterprise Miner Software Updates to your Enterprise Miner Server Software	19
Starting Enterprise Miner Server Software	19
Configuring Enterprise Miner Server Software	20
Uninstalling Enterprise Miner Server Software	21

VI. Installing and Configuring Enterprise Miner Client Software on Windows

Platforms 22

Installing the SAS System for Enterprise Miner Client Software 22

Applying Release 6.12 Maintenance to Your SAS System for Enterprise Miner Client Software 23

Installing Enterprise Miner Client Software 23

Applying Enterprise Miner Software Updates to your Enterprise Miner Client Software 24

Starting the Enterprise Miner Client Software User Interface 25

Configuring Enterprise Miner Client Software for Remote Projects 25

Windows Server..... 25

UNIX Server..... 25

Uninstalling Enterprise Miner Client Software..... 26

VII. Appendices 26

Appendix A - Custom Installation for UNIX Platforms..... 26

Appendix B - Custom Installation for Windows Platforms..... 27

Glossary:

- References to a ***Windows platform*** indicate the following Windows operating systems: Windows NT, Windows 95, and Windows 98.
- References to a ***server Windows platform*** indicate the following Windows operating system: Windows NT.
- References to a ***client Windows platform*** indicate the following Windows operating systems: Windows NT, Windows 95, and Windows 98.
- References to a ***server UNIX platform*** indicate the following UNIX operating systems: AIX, HP-UX, and Solaris 2.
- References to ***Enterprise Miner products*** indicate the SAS System products that are automatically included on the media for the SAS System when you order Enterprise Miner software, client or server.
- References to the ***EM*** product refer to Enterprise Miner software.

I. Overview of Enterprise Miner Software, Version 3.0

Enterprise Miner Software

SAS Institute defines *data mining* as the process of selecting, exploring, modifying, and modeling large amounts of data to uncover previously unknown patterns in data for a business advantage. The data mining process is applicable across a variety of industries and provides methodologies for such diverse business problems as fraud detection, customer retention and attrition, database marketing, market segmentation, risk analysis, affinity analysis, customer satisfaction, bankruptcy prediction, and portfolio analysis.

Enterprise Miner software is an integrated product that provides an end-to-end business solution for data mining. A Graphical User Interface (GUI) provides a user-friendly front-end to the SEMMA (Sample, Explore, Modify, Model, and Assess) process. You may or may not include all of these steps in your analysis and it may be necessary to iterate through one or more of the steps several times before you are satisfied with the results. The SEMMA process is driven by a Process Flow Diagram (PFD), which you can modify and save. The GUI is designed in such a way that the business technologist who has little statistical expertise can easily navigate through this data mining methodology, while the quantitative expert can go "behind the scenes" to fine tune the analytical process.

Enterprise Miner software contains a collection of sophisticated analysis tools that have a common user-friendly interface that enables you to create and compare multiple models. Statistical tools include clustering, variable selection, decision trees, linear and logistic regression, and neural networks. Data preparation tools include outlier detection, data imputation, variable transformations, random sampling, and the partitioning of data sets (into train, test, and validate data sets). Advanced visualization tools enable you to quickly and easily examine large amounts of data in multidimensional histograms and to graphically compare modeling results.

Enterprise Miner Software - Client/Server Functionality

Enterprise Miner establishes a client/server session using SAS/CONNECT software as the cooperative processing software between the remote and local host. The client/server functionality provides the following advantages:

- distributes data-intensive processing to the most appropriate machine,
- minimizes network traffic by processing the data on the server machine,
- minimizes data redundancy by maintaining one central data source,
- distributes server profiles to multiple clients,
- regulates access to data sources, and
- toggles between remote and local processing.

Each single server license comes with five client Windows platform licenses. Normally, you would install the server on a server-class Windows or UNIX machine and the clients on five other client Windows machines.

Enterprise Miner Server Software runs on server Windows and UNIX platforms.

Enterprise Miner Client Software runs only on Windows platforms and can access data and perform computation on remote server Windows or UNIX platforms.

Enterprise Miner Software Documentation

❑ **Installation Instructions and System Requirements for Enterprise Miner Software, Version 3.0**

The **Installation Instructions and System Requirements for Enterprise Miner Software, Version 3.0** are included with this software shipment, as well as on the Enterprise Miner software home page, located at

<http://www.sas.com/software/components/miner.html>.

❑ **Getting Started with Enterprise Miner Software, Version 3.0**

Getting Started with Enterprise Miner Software, Version 3.0 is included with this software shipment, as well as online. Please refer to the online document for a more up-to-date version. The online document can be found in the Enterprise Miner Windows user interface by selecting the **Help** pull-down menu and then the **Getting Started with the Enterprise Miner software** menu option.

❑ **Enterprise Miner Reference Guide**

Enterprise Miner Reference Guide is available online in the Enterprise Miner Windows user interface by selecting the **Help** pull-down menu and then the **Enterprise Miner Reference** menu option.

❑ **Enterprise Miner Software: Changes and Enhancements, Version 3.0**

Enterprise Miner Software: Changes and Enhancements, Version 3.0 is included with this software shipment.

II. System Requirements

Server UNIX Platforms

Hardware

Disk space required is 70 MB.

Memory required is 512 MB.

Note: The disk space requirement for Enterprise Miner software on server UNIX platforms is the combined total disk space required for the SAS software products listed in **Appendix A - Custom Installation for UNIX Platforms** and the disk space required for Enterprise Miner Software, Version 3.0. See the **System Requirements** for the SAS System included with your media for a list of any other hardware requirements for Enterprise Miner products.

Software

Operating System

Enterprise Miner software requires specific operating system versions in order to provide support for files larger than 2 GB.

AIX, Release 4.2 and 4.3

HP-UX, Release 10.20 and 11.0

SunOS 5.6 (Solaris 2.6) through SunOS 5.7 (Solaris 2.7)

The SAS System

For the server UNIX platform, Enterprise Miner software requires the installation of the SAS System, Release 6.12 with Enterprise Miner products and the installation of Release 6.12 (TS050 or above) maintenance. See the **System Requirements** for the SAS System included with your media for a list of any other software requirements for Enterprise Miner products.

Solaris Note: If a dual installation has been performed, some of the installation steps will be different from the ones described. See **Appendix A, Configuration Information for the SAS System on Solaris** in the **Installation Instructions for the SAS System under UNIX Environments, Release 6.12 (TS050 and above)** for an explanation of the dual installation.

Required SAS Products

Base SAS software and SAS/STAT software with Enterprise Miner products

Note: Both client and server should be running matching releases of Enterprise Miner Software, Version 3.0.

Server Windows Platforms

Hardware

Disk space required is 107 MB.

Memory required is 512 MB.

Note: The disk space requirement for Enterprise Miner software on server Windows platform is the combined total disk space required for the SAS software products listed in **Appendix B - Custom Installation for Windows Platforms** and the disk space required for Enterprise Miner Software, Version 3.0. See the **System Requirements** for the SAS System included with your media for a list of any other hardware requirements for Enterprise Miner products.

Software

Operating System

Windows NT, Version 4.0

The SAS System

For the server Windows platform, Enterprise Miner software requires the installation of the SAS System, Release 6.12 with Enterprise Miner products and the installation of Release 6.12 (TS050 or above) maintenance. See the **System Requirements** for the SAS System included with your media for a list of any other software requirements for Enterprise Miner products.

Required SAS Products

Base SAS software and SAS/STAT software with Enterprise Miner products

Note: Both client and server should be running matching releases of Enterprise Miner Software, Version 3.0.

Client Windows Platforms

Hardware

Disk space required is 107 MB.

Memory required is 48 MB.

Note: The disk space requirement for Enterprise Miner software on client Windows platforms is the combined total disk space required for the SAS software products listed in **Appendix B - Custom Installation for Windows Platforms** and the disk space required for Enterprise Miner Software, Version 3.0. See the **System Requirements** for the SAS System included with your media for a list of any other hardware requirements for Enterprise Miner products.

Software

Operating System

Windows 95, Windows 98, or Windows NT, Version 4.0

The SAS System

For client Windows platforms, Enterprise Miner software requires the installation of the SAS System, Release 6.12 with Enterprise Miner products and the installation of Release 6.12 (TS050 or above) maintenance. See the **System Requirements** for the SAS System included with your media for a list of any other software requirements for Enterprise Miner products.

Client-Required SAS Products

Enterprise Miner products

Screen Resolution

The recommended screen resolution for Enterprise Miner software is at least 800x600. If your display is set to a lower resolution, some windows may be truncated to fit the screen.

Fonts

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

Note: Both client and server should be running matching releases of Enterprise Miner Software, Version 3.0.

III. Enterprise Miner Software Packaging

Windows Server and Windows Clients: New Enterprise Miner Software Users

Your Enterprise Miner software will be packaged in three parts.

1. Enterprise Miner Solution – Open me first

Contains **Enterprise Miner, Version 3.0, Windows** CD and product documentation listed previously. The **Enterprise Miner, Version 3.0, Windows** CD should be installed on both the server and the client. There are not separate server and client CDs. Install **Enterprise Miner, Version 3.0, Windows** after installing the SAS System and SAS System maintenance.

Also contains **Enterprise Miner Software Updates, Release 3.01** CD, which contains important maintenance updates for Enterprise Miner software. The **Enterprise Miner Software Updates, Release 3.01** CD should be installed on both the server and the client. There are not separate server and client CDs. Install **Enterprise Miner Software Updates, Release 3.01** last, after installing **Enterprise Miner, Version 3.0, Windows**.

2. The SAS System for Enterprise Miner Server

Contains Installation Instructions for the SAS System and:

SAS System Rel 6.12 TS025 for Windows CD - Install **first** on your server. The CD is labeled *Server*.

SAS System Rel 6.12 Maintenance for Windows CD - Install **second** on your server. Your SAS System must be at maintenance level TS050 or above for Enterprise Miner Software, Version 3.0 to function correctly.

If you are receiving any other SAS System products for the first time, you may have an additional box that contains SAS System product documentation.

3. The SAS System for Enterprise Miner Client

Contains Installation Instructions for the SAS System and:

SAS System Rel 6.12 TS025 for Windows CD - Install **first** on your client. The CD is labeled *Client*.

SAS System Rel 6.12 Maintenance for Windows CD - Install **second** on your client. Your SAS System must be at maintenance level TS050 or above for Enterprise Miner Software, Version 3.0 to function correctly.

If you are receiving any other SAS System products for the first time, you may have an additional box that contains SAS System product documentation.

Note: Your SAS System must be at maintenance level TS050 or above for Enterprise Miner Software, Version 3.0 to function correctly.

UNIX Server and Windows Clients: New Enterprise Miner Software Users

Your Enterprise Miner software will be packaged in three parts.

1. Enterprise Miner Solution – Open me first

Contains two Enterprise Miner software CDs and product documentation listed previously. The **Enterprise Miner, Version 3.0, UNIX** CD should be installed on the UNIX server. The **Enterprise Miner, Version 3.0, Windows** CD should be installed on the Windows client. Install Enterprise Miner Software after installing the SAS System and SAS System maintenance.

Also contains **Enterprise Miner Software Updates, Release 3.01** CD, which contains important maintenance updates for Enterprise Miner software. The **Enterprise Miner Software Updates, Release 3.01** CD should be installed on both the server and the client. There are not separate server and client CDs. Install **Enterprise Miner Software Updates, Release 3.01** last, after installing **Enterprise Miner, Version 3.0, UNIX**.

2. The SAS System for Enterprise Miner Server

Contains Installation Instructions for the SAS System and:

SAS System Rel 6.12 for Unix Environments CD - Install **first** on your server. The CD is labeled *Server*. Your SAS System must be at maintenance level TS050 or above for Enterprise Miner Software, Version 3.0 to function correctly. The **SAS System Rel 6.12 for Unix Environments** CD contains the appropriate maintenance level.

If you are receiving any other SAS System products for the first time, you may have an additional box that contains SAS System product documentation.

3. The SAS System for Enterprise Miner Client

Contains Installation Instructions for the SAS System and:

SAS System Rel 6.12 TS025 for Windows CD - Install **first** on your client. The CD is labeled *Client*.

SAS System Rel 6.12 Maintenance for Windows CD - Install **second** on your client. Your SAS System must be at maintenance level TS050 or above for Enterprise Miner Software, Version 3.0 to function correctly.

If you are receiving any other SAS System products for the first time, you may have an additional box that contains SAS System product documentation.

Note: Your SAS System must be at maintenance level TS050 or above for Enterprise Miner Software, Version 3.0 to function correctly.

Windows Server and Windows Clients: Enterprise Miner Software, Version 2.0x Users Upgrading to Version 3.0

Your Enterprise Miner software will be packaged in two parts.

1. Enterprise Miner Solution – Open me first

Contains **Enterprise Miner, Version 3.0, Windows** CD and product documentation listed previously. The **Enterprise Miner, Version 3.0, Windows** CD should be installed on both the server and the client. There are not separate server and client CDs. Install Enterprise Miner Software after installing SAS System maintenance.

Also contains **Enterprise Miner Software Updates, Release 3.01** CD, which contains important maintenance updates for Enterprise Miner software. The **Enterprise Miner Software Updates, Release 3.01** CD should be installed on both the server and the client. There are not separate server and client CDs. Install **Enterprise Miner Software Updates, Release 3.01 last**, after installing **Enterprise Miner, Version 3.0, Windows**.

Note: Enterprise Miner Software, Version 2.0x users upgrading to Version 3.0 do not need to uninstall their Version 2.0x software to install Enterprise Miner Software, Version 3.0. Enterprise Miner Software, Version 3.0 will install to a unique location and will provide separate shortcuts for launching.

2. The SAS System, Release 6.12 Maintenance for Windows

Contains Installation Instructions for the SAS System and:

SAS System Rel 6.12 Maintenance for Windows CD - Install **first** on both your server and client.

Note: **Your SAS System must be at maintenance level TS050 or above for Enterprise Miner Software, Version 3.0 to function correctly.**

UNIX Server and Windows Clients: Enterprise Miner Software, Version 2.0x Users Upgrading to Version 3.0

Your Enterprise Miner software will be packaged in three parts.

1. Enterprise Miner Solution – Open me first

Contains two Enterprise Miner software CDs and product documentation listed previously. The **Enterprise Miner, Version 3.0, UNIX** CD should be installed on the UNIX server. The **Enterprise Miner, Version 3.0, Windows** CD should be installed on the Windows client. Install Enterprise Miner Software after installing the SAS System and SAS System maintenance.

Also contains **Enterprise Miner Software Updates, Release 3.01** CD, which contains important maintenance updates for Enterprise Miner software. The **Enterprise Miner Software Updates, Release 3.01** CD should be installed on both the server and the client. There are not separate server and client CDs. Install **Enterprise Miner Software Updates, Release 3.01 last**, after installing **Enterprise Miner, Version 3.0, UNIX**.

Note: Enterprise Miner Software, Version 2.0x users upgrading to Version 3.0 do not need to uninstall their Version 2.0x software to install Enterprise Miner Software, Version 3.0. Enterprise Miner Software, Version 3.0 will install to a unique location and will provide separate shortcuts for launching.

2. **The SAS System for Enterprise Miner Server**

Contains Installation Instructions for the SAS System and:

SAS System Rel 6.12 for Unix Environments CD - Install **first** on your server. The CD is labeled *Server*. You must install the **SAS System Rel 6.12 for Unix Environments** CD to pick up additional Enterprise Miner-required software. Your SAS System must be at maintenance level TS050 or above for Enterprise Miner Software, Version 3.0 to function correctly. The **SAS System Rel 6.12 for Unix Environments** CD contains the appropriate maintenance level.

3. **The SAS System, Release 6.12 Maintenance for Windows Client**

Contains Installation Instructions for the SAS System and:

SAS System Rel 6.12 Maintenance for Windows CD - Install **first** on your Windows client.

Note: Your SAS System must be at maintenance level TS050 or above for Enterprise Miner Software, Version 3.0 to function correctly.

IV. Installing and Configuring Enterprise Miner Server Software on the UNIX Platforms

Enterprise Miner software comprises two parts, a client installation and a server installation. This means that you will be installing server media on the server UNIX platform and client media on the client Windows platform. Please read section V. **Installing and Configuring Enterprise Miner Client Software on Windows Platforms**. There is not a Enterprise Miner UNIX client. None of the installation steps are optional.

Installing the SAS System for Enterprise Miner Server Software

You must install the SAS System with Enterprise Miner products to use Enterprise Miner Server Software. The package contains two copies of the SAS System. One copy is for your UNIX server machine and the other copy is for your Windows client machines. The **SAS System Rel 6.12 for Unix Environments** CD for the UNIX server install is labeled *Server*. This CD contains the SAS System, Release 6.12 (TS020) and maintenance that upgrades the SAS System to TS050 or above.

Note: You should run the SAS System installation to validate that you have all Enterprise Miner products and to install the SAS System, Release 6.12 (TS050 or above) maintenance. You must have the following SAS software products installed on your server and you must have applied (TS050 or above) maintenance for Enterprise Miner, Version 3.0 to function correctly:

- Base SAS Software
- SAS/CONNECT Software
- SAS/ETS Software
- SAS/GRAPH Software
- SAS/STAT Software

1. Choose the **SAS System Rel 6.12 for Unix Environments** CD labeled *Server*.
2. Insert the **SAS System Rel 6.12 for Unix Environments** CD into your CD-ROM drive.
3. Perform a *default installation* as outlined in the **Installation Instructions for the SAS System under UNIX Environments, Release 6.12 (TS050 and above)**. (This document is included with your SAS System software shipment.) A *default installation* installs everything on the installation medium. See the section **Performing a Default Installation of the SAS System or Additional Products** in the appropriate chapter (Chapter 2 for AIX, Chapter 3 for HP-UX, or Chapter 4 for Solaris) of the **Installation Instructions for the SAS System under UNIX Environments, Release 6.12 (TS050 and above)**. See the **Addendum to the Installation Instructions for the SAS System under UNIX Environments, Release 6.12** for more information on maintenance installation. If the *default installation* is not appropriate for you, follow the instructions in **Appendix A - Custom Installation for UNIX Platforms** in this document.

Note: If you have **not** separately licensed SAS/ETS software or SAS/GRAPH software, you may see the messages following the SAS System integrity check. You may ignore these messages.

```
Error: Encountered errors while executing
'/sas612/sastest/testets.sas'. Compare the blg
and log files for this test to determine
the cause. Save these files if you need
to contact SAS Institute Technical Support
for assistance.
```

```
Error: Encountered errors while executing
'/sas612/sastest/testgraph.sas'. Compare the blg
and log files for this test to determine
the cause. Save these files if you need
to contact SAS Institute Technical Support
for assistance.
```

4. Use the `umount` command to unmount the SAS System media. For example:

```
umount /cdrom
```

Solaris Note: Solaris provides the `eject` command to unmount removable media.

Installing Enterprise Miner Server Software

After you have installed the SAS System, Release 6.12 (TS050 or above) with Enterprise Miner products, you can install Enterprise Miner Server Software on the machine you plan on using as a server. See the **System Requirements** for hardware and software requirements.

1. Insert the **Enterprise Miner, Version 3.0, UNIX** CD into the CD-ROM drive.
2. Mount the CD-ROM.

Note: This release of the SAS System supports ISO-9660 CD-ROM and Rockridge extensions where available.

The following command is an example of mounting the CD-ROM:

AIX

```
mount -r -v cdrfs /dev/cd0 /cdrom
```

HP-UX

```
mount -r /dev/dsk/0d0 /cdrom
```

Solaris 2

```
mount -r -F hsfs /dev/sr0 /cdrom
```

Notes: Refer to your system documentation for the correct device name.

Mounting and unmounting a CD-ROM device requires root privileges. The remainder of the installation process does not. After mounting the CD-ROM, you can return to the standard privilege set.

For information on mounting a remote CD-ROM, see the section **Extracting SAS Manager from Tape or CD-ROM** in the appropriate chapter (Chapter 2 for AIX, Chapter 3 for HP-UX, or Chapter 4 for Solaris) of the **Installation Instructions for the SAS System under UNIX Environments, Release 6.12 (TS050 and above)**.

3. Install the Enterprise Miner Software, Version 3.0 files from the mailer CD-ROM into the `!SASROOT/addon/dmine3` directory. Run the `install.sh` script from the **Enterprise Miner, Version 3.0, UNIX CD**:

```
/cdrom/INSTALL.SH -f fully-qualified-pathname-of-Cdrom \  
-t SASROOT-directory-to-install-DMINE-into
```

The following example assumes that your CD-ROM device is mounted in the directory `/cdrom` and that the SAS System, Release 6.12 is installed in the `/usr/local/sas612`:

```
/cdrom/INSTALL.SH -f /cdrom -t /usr/local/sas612
```

Enterprise Miner Software, Version 3.0 installs to a unique location `!SASROOT/addon/dmine3` so both Version 2.0x and Version 3.0 can be executed from the same SAS System installation. The following directories are installed from the CD-ROM:

```
!sasroot/addon  
!sasroot/addon/dmine3  
!sasroot/addon/dmine3/sasmsg  
!sasroot/addon/dmine3/sasautos  
!sasroot/addon/dmine3/samples/dmine  
!sasroot/addon/dmine3/sasexe/dmine  
!sasroot/addon/dmine3/sashelp  
!sasroot/addon/dmine3/sastest
```

4. Compare the current `config.sas612` file to the `config.dmine` file in the `!SASROOT/addon/dmine3` directory. Reconcile any site-specific differences such as `-memsize`. The `config.sas612` file is usually found in the `SASROOT` directory. For example:

```
cd addon/dmine3  
diff /usr/local/sas612/config.sas612 config.dmine
```

Note: The `memsize` option is the upper limit of the amount of memory the SAS System can use on a per session basis. Each session uses only as much memory as it needs and can never use more than the `memsize` option dictates. The `config.dmine` file defines a recommended `memsize` of 128 MB. This option can be adjusted in relation to the amount of physical RAM on the server and the number of concurrent users. Do not set the `memsize` option to a value so high that if every session allocated the maximum allowed amount, it would exceed the amount of physical memory on the server.

Solaris Note: If a dual installation has been performed, then the `config.sas612.sol2` file should be compared to `config.dmine`:

```
cp /usr/local/sas612/config.sas612.sol2 config.dmine
```

5. Edit the `autoexec.sas` file in `!SASROOT` and add the line:

```
libname sampsi0 '!SASROOT/addon/dmine3/samples/dmine';
```

Note: Enterprise Miner Software, Version 2.0x users upgrading to Version 3.0 should change the `libname` statement to point to the Version 3.0 `samples` directory.

Applying Enterprise Miner Software Updates to your Enterprise Miner Server Software

1. Insert the CD labeled **Enterprise Miner Software Updates, Release 3.01**.
2. Mount the CD using the appropriate UNIX `mount` command for your platform. See the previous section for more information on the `mount` command.
3. Install the software using the following command:

```
/cdrom/INSTALL.SH -f <cdpath> -t <sasroot>
```

where `<cdpath>` is the pathname of the CD-ROM drive and `<sasroot>` is the SAS System directory.

The following example assumes that your CD-ROM drive is mounted in the directory `/cdrom` and that the SAS System, Release 6.12 is installed in `/usr/local/sas612`:

```
/cdrom/INSTALL.SH -f /cdrom -t /usr/local/sas612
```

Fixes will be installed into `SASROOT/addon/dmine3`.

Note: Enterprise Miner Software Updates, Release 3.01 must be installed on top of the Enterprise Miner Software, Version 3.0 installation on your UNIX server. Both your server and client must be at the same release level of Enterprise Miner software.

Configuring Enterprise Miner Server Software

Default Data Library Setup

Make sure that the server has a directory to which Enterprise Miner Client Software users have read/write access. This directory should be different from the location where you installed Enterprise Miner Server Software. If you need to create a directory, do it now (`/bigdisk/emineprj` for example).

Information Needed to Configure Enterprise Miner Client Software

Provide the following information to users of Enterprise Miner Client Software so they can complete the steps outlined in the **Configuring Enterprise Miner Client Software for Remote Projects** section.

- machine name and IP address
- `addon/dmine3` directory location

For example, if you installed Enterprise Miner Server Software into the `/usr/local/sas612/addon/dmine3` directory, then the path needed for client configuration is `/usr/local/sas612/addon/dmine3`.

- path to the default data library

For example, if a server named `emserv` has a directory `/bigdisk/emineprj` created to store Enterprise Miner projects, then `/bigdisk/emineprj` is the path needed for client configuration. Do not use an NFS mount point, such as `/net/emserv/emineprj`.

Uninstalling Enterprise Miner Server Software

To remove Enterprise Miner Software, Version 3.0, run the `uninstal.sh` script from the **Enterprise Miner, Version 3.0, UNIX CD**:

```
/cdrom/UNINSTAL.SH sasroot-directory
```

This assumes the **Enterprise Miner, Version 3.0, UNIX CD** is locally mounted as `/cdrom`.

V. Installing and Configuring Enterprise Miner Server Software on the Windows NT Platform

Enterprise Miner software comprises two parts, a client installation and a server installation. This means that you will be installing server media on the server Windows platform and client media on the client Windows platform. Please read section V. **Installing and Configuring Enterprise Miner Client Software on Windows Platforms**. You should not perform the client installation on the server. None of the installation steps are optional.

Installing the SAS System for Enterprise Miner Server Software

You must install the SAS System with Enterprise Miner products to use Enterprise Miner Server Software. If you have licensed Enterprise Miner Server Software on a server Windows platform and Enterprise Miner Client Software on a client Windows platform, your package contains two copies of the SAS System for Windows. These copies are not identical. One copy is for your server machine and the other copy is for your client machines. The **SAS System Rel 6.12 TS025 for Windows** CD insert for the server installation is labeled *Server*.

1. Choose the **SAS System Rel 6.12 TS025 for Windows** CD labeled *Server*.
2. Insert the **SAS System Rel 6.12 TS025 for Windows** CD into your CD-ROM drive.
3. Perform a **Typical** installation of the SAS System as outlined in the **Installation Instructions for the SAS System under Microsoft Windows, Release 6.12**.
4. If you are installing Enterprise Miner software as an *add-on* to a previously installed SAS System, Release 6.12, you will be asked whether to *Purge* or *Modify* the existing SAS System. Respond *Modify* at this point. The following SAS products must be installed on your server:
 - Base SAS Software
 - SAS/CONNECT Software
 - SAS/EIS Software
 - SAS/ETS Software
 - SAS/FSP Software
 - SAS/GRAPH Software
 - SAS/INSIGHT Software
 - SAS/MDDB Server Software
 - SAS/STAT Software
5. During the installation, you are asked if you want to install the SAS Job Spawner. You should not install the SAS Job Spawner at this time. See the **Starting Enterprise Miner Server Software** section in this document for instructions.
6. During the installation, you may be asked if you want to install the SAS Viewer or the 16-bit or 32-bit SAS ODBC Driver. You do not need these components to use Enterprise Miner software, but you may install them if you wish.

Note: You must run the SAS System installation to validate that you have all Enterprise Miner products.

Applying Release 6.12 Maintenance to Your SAS System for Enterprise Miner Server Software

You must apply maintenance - Release 6.12 (TS050 or above) of the SAS System - for Enterprise Miner products. If you have licensed Enterprise Miner Server Software on a server Windows platform and Enterprise Miner Client Software on a client Windows platform, your package contains two copies of maintenance - Release 6.12 (TS050 or above) of the SAS System. These CDs are the same for both client and server.

1. Insert the **SAS System Rel 6.12 Maintenance for Windows** CD into your CD-ROM drive.
2. Perform an installation of SAS System maintenance as outlined in **Chapter 2, Applying Maintenance to Your SAS System** in the **Installation Instructions for the SAS System under Microsoft Windows, Release 6.12**.

Installing Enterprise Miner Server Software

After you have:

- installed the **SAS System Rel 6.12 TS025 for Windows** CD with Enterprise Miner products, and
- applied maintenance - Release 6.12 (TS050 or above) - to your SAS System,

you can install Enterprise Miner Server Software on the machine you plan on using as a server. See the section **System Requirements** for hardware and software requirements.

Note: Enterprise Miner Software, Version 2.0x users upgrading to Version 3.0 do not need to uninstall their Version 2.0x software to install Enterprise Miner Software, Version 3.0. Enterprise Miner Software, Version 3.0 will install to a unique location and will provide separate shortcuts for launching.

1. Insert the **Enterprise Miner, Version 3.0, Windows** CD into your CD-ROM drive.
2. Select the Run... menu option from the Start menu on the taskbar.
3. Type the following command and follow the instructions of the setup wizard to complete your installation.

```
<source_drive>\setup.exe
```

For example, if the source media is in drive E:, type:

```
e:\setup.exe
```

4. Select **Server** on the screen that asks you to select components to install.
5. You will have three types of installations to choose from. We highly recommend that you install the samples.

Typical installs Enterprise Miner Software, Version 3.0 and samples (default).

Compact installs Enterprise Miner Software, Version 3.0 without samples.

Custom allows you to install the samples separately.

Note: This installation will install Enterprise Miner software in an `addon` directory. This is a subfolder of the directory where your SAS System is installed (`!sasroot\addon`).

Enterprise Miner software, Version 3.0 will install to the directory !sasroot\addon\dmine3. If you have installed any of the following SAS software products to your SAS System, Enterprise Miner software will be installed to a dmine3 folder in the same addon location:

- SAS/GIS Software
- SAS/PH-Clinical Software
- SAS/Warehouse Administrator Software
- SAS Analyst Application
- SAS Application Sampler
- SAS ADX Interface
- Enterprise Miner Software, Version 2.0x

Note: If you have Enterprise Miner Software, Version 2.0x software installed, Enterprise Miner Software, Version 3.0 will be installed in a separate directory structure in the addon subfolder. Version 2 and Version 3 of Enterprise Miner software can run on the same machine, allowing Version 2.0x projects to be exported for conversion. See **Chapter 2, Working with Projects** from the document titled **Getting Started with Enterprise Miner Software, Version 3.0** for more information. You must run the same version of Enterprise Miner software on both your client and server machines.

6. To support enhanced printing for Enterprise Miner software, you will be prompted whether to modify four entries in the SAS/GRAPH devices catalog. Respond Yes to dialogs such as the following if you want to modify this catalog.

GIF1200 is Institute-supplied. Do you wish to modify?
Yes
or
No

If you want to modify the catalog at a later time, then respond No to the dialogs and run the program !SASROOT\addon\dmine3\sample\emgifs.sas when needed.

Testing Enterprise Miner Server Software

To verify that Enterprise Miner Server Software is installed correctly, start Enterprise Miner software. Enterprise Miner software will start automatically if you double-click on the shortcut installed on your desktop labeled Enterprise Miner 3.0. To start Enterprise Miner software from your Windows desktop, go to the Start menu on the taskbar and select the Programs menu option, then the Enterprise Miner menu option, and then the Enterprise Miner 3.0 menu option. To run the test install program, go to the SAS System File pull-down menu and select the Open menu option in the SAS Program Editor. Open the file addon\dmine3\sastest\testdmin.sas. Submit this SAS code. A pop-up window will appear with text similar to the following. Review the file specified in the window. If the installation is successful, there will be no differences shown in the TESTdmine.OUT file. If differences occur, then contact SAS Technical Support.

```
dmine Installation Test Finished
*****
The file C:\SAS\sasuser\DMINE\TESTdmine.OUT contains results
from the comparison of test output with output supplied
by SAS Institute. At the top of this file you will
find information on how to interpret the comparison
results. You may examine this file with any editor
You may delete all files left by the installation test
process by deleting the C:\SAS\sasuser\DMINE directory.
*****
Press any key to continue . . .
```

Applying Enterprise Miner Software Updates to your Enterprise Miner Server Software

1. Insert the CD labeled **Enterprise Miner Software Updates, Release 3.01**.
2. Select the `Run` menu option from the `Start` menu on the taskbar.
3. Type the following command and follow the instructions of the Setup wizard to complete your installation.

```
<source_drive>\WIN.EXE
```

For example, if the source media is in drive E:, type:

```
e:\WIN.EXE
```

Note: Enterprise Miner Software Updates, Release 3.01 must be installed on top of the Enterprise Miner Software, Version 3.0 installation on all Windows server or client systems. Enterprise Miner Software Updates, Release 3.01 should be installed on both the client and the server.

4. Follow the instructions given during the installation.

Starting Enterprise Miner Server Software

Installing and Starting the SAS Job Spawner

Enterprise Miner software requires the SAS Job Spawner to be running on your Enterprise Miner Server Software machine. The SAS Job Spawner starts Enterprise Miner software when clients define and run remote projects.

When you installed maintenance - Release 6.12 (TS050 or above) of the SAS System - you received an updated copy of the `spawner.exe` program. The spawner files are located in the `!SASROOT\CONNECT\SASEXE` subdirectory. You need to install the SAS Job Spawner and start it as an NT service.

For SAS Job Spawner help, issue the following command from a DOS prompt while in the `SASROOT` directory:

```
C:\SAS> CONNECT\SASEXE\SPAWNER -h
```

The online documentation for installing the SAS Job Spawner as an NT service is incomplete.

Use the following techniques for installing/reinstalling the SAS Job Spawner service.

The following notes are specifically for Windows NT, which is the required platform for Enterprise Miner Server Software.

- From a DOS command prompt, change directories to `SASROOT`.
- Check to see if the SAS Job Spawner service is installed:

```
net start | find "SAS job spawner" /i
```

- If the SAS Job Spawner service is started, then stop the SAS Job Spawner service:

```
net stop "SAS job spawner"
```

Now, the SAS Job Spawner needs to be deleted. Confirm you are in the `SASROOT` directory:

```
C:\SAS> connect\sasexe\spawner -d
```

- To install the SAS Job Spawner from the SASROOT directory and use the TCP/IP communication access method, enter the following command:

```
C:\SAS> connect\sasexe\spawner -i -c tcp
```

- Start the SAS Job Spawner service:

```
net start "SAS job spawner"
```

- Check to see if the SAS Job Spawner service was started by re-issuing the following command:

```
net start | find "SAS job spawner" /i
```

You are now ready to have users connect to the SAS Job Spawner. We have found that using the `net` commands work more efficiently than using the `Control Panel/Services` window. Please see **Appendix A, Post-Installation Setup for SAS/CONNECT Software** in the **Installation Instructions for the SAS System under Microsoft Windows, Release 6.12** or **SAS/CONNECT Software: Usage and Reference and Communications Access Methods for SAS/CONNECT and SAS/SHARE Software** for complete information on using the SAS Job Spawner.

Changing a Secured Spawner to a Non-Secured Spawner

When the SAS Job Spawner is installed as an NT service in Release 6.12 (TS055 or above), it is installed to run secured by default. If you wish to run an unsecured SAS Job Spawner as an NT service, you can execute a file in order to change the spawner mode to unsecure. From the `Start` menu on the taskbar, select the `Run` menu option, enter the location of your `!SASROOT\connect\sasmisc\nosecure.reg` file, and click `OK`. For example, if the SAS System were installed in `C:\SAS`, you would enter `C:\SAS\connect\sasmisc\nosecure.reg`.

Refer to **The PC Spawner Program** section in **Communications Access Methods for SAS/CONNECT and SAS/SHARE Software** for complete information on using the SAS Job Spawner.

Configuring Enterprise Miner Server Software

Default Data Library Setup

Make sure that the server has a directory to which Enterprise Miner Client Software users have read/write access. This directory should be different from the location where you installed Enterprise Miner Server Software. If you need to create a directory, do it now (`c:\emineprj` for example).

Information Needed to Configure Enterprise Miner Client Software

Provide the following information to users of Enterprise Miner Client Software so they can complete the steps outlined in the **Configuring Enterprise Miner Client Software for Remote Projects** section.

- machine name and IP address
- addon directory location

For example, if you installed Enterprise Miner Server Software into the `d:\sas\addon` directory, then the path needed for client configuration is `d:\sas\addon\dm3`.

- path to the default data library

For example, if a server named `emserv` has a directory `c:\emineprj` created to store Enterprise Miner projects, then `c:\emineprj` is the path needed for client configuration. Do not use the UNC naming convention, such as `\\emserv\emineprj`.

Uninstalling Enterprise Miner Server Software

To remove Enterprise Miner Server Software from a Windows platform, go to the `Start` menu on the taskbar and select the `Programs` menu option, then the `Enterprise Miner` menu option, and then the `Uninstall Enterprise Miner 3.0` menu option.

VI. Installing and Configuring Enterprise Miner Client Software on Windows Platforms

Enterprise Miner software comprises two parts, a client installation and a server installation. This may mean that you will be installing media on two different platforms. Please read all the relevant sections below. You should not perform the client installation on the server. None of the installation steps are optional.

Installing the SAS System for Enterprise Miner Client Software

You must install the SAS System with Enterprise Miner products to use Enterprise Miner Client Software. If you have licensed Enterprise Miner Server Software on a server Windows platform and Enterprise Miner Client Software on a client Windows platform, your package contains two copies of the SAS System for Windows. These copies are not identical. One copy is for your server machine and the other copy is for your client machines. The **SAS System Rel 6.12 TS025 for Windows** CD insert for the client installation is labeled *Client*.

1. Choose the **SAS System Rel 6.12 TS025 for Windows** CD labeled *Client*.
2. Insert the **SAS System Rel 6.12 TS025 for Windows** CD into your CD-ROM drive.
3. Perform a **Typical** installation of the SAS System as outlined in the **Installation Instructions for the SAS System under Microsoft Windows, Release 6.12**.
4. If you are installing Enterprise Miner software as an *add-on* to a previously installed SAS System, Release 6.12, you will be asked whether to **Purge** or **Modify** the existing SAS System. Respond **Modify** at this point. The following SAS products must be installed on your client:

- Base SAS Software
- SAS/CONNECT Software
- SAS/EIS Software
- SAS/ETS Software
- SAS/FSP Software
- SAS/GRAPH Software
- SAS/INSIGHT Software
- SAS/MDDB Server Software
- SAS/STAT Software

5. During the installation, you are asked if you want to install the SAS Job Spawner. You should not install the SAS Job Spawner at this time.
6. During the installation, you may be asked if you want to install the SAS Viewer or the 16-bit or 32-bit SAS ODBC Driver. You do not need these components to use Enterprise Miner software, but you may install them if you wish.

Applying Release 6.12 Maintenance to Your SAS System for Enterprise Miner Client Software

You must apply maintenance - Release 6.12 (TS050 or above) of the SAS System - for Enterprise Miner products. If you have licensed Enterprise Miner Server Software on a server Windows platform and Enterprise Miner Client Software on a client Windows platform, your package contains two copies of maintenance - Release 6.12 (TS050 or above) of the SAS System. These CDs are the same for both client and server.

1. Insert the **SAS System Rel 6.12 Maintenance for Windows** CD into your CD-ROM drive.
2. Perform an installation of SAS System maintenance as outlined in **Chapter 2, Applying Maintenance to Your SAS System** in the **Installation Instructions for the SAS System under Microsoft Windows, Release 6.12**.

Installing Enterprise Miner Client Software

After you have:

- installed the **SAS System Rel 6.12 TS025 for Windows** CD with Enterprise Miner products, and
- applied maintenance - Release 6.12 (TS050 or above) - to your SAS System,

you can install Enterprise Miner Client Software on the machines you plan on using as clients. See the section **System Requirements** for hardware and software requirements.

Note: Enterprise Miner Software, Version 2.0x users upgrading to Version 3.0 do not need to uninstall their Version 2.0x software to install Enterprise Miner Software, Version 3.0. Enterprise Miner Software, Version 3.0 will install to a unique location and will provide separate shortcuts for launching.

1. Insert the **Enterprise Miner, Version 3.0, Windows** CD into your CD-ROM drive.
2. Select the Run... menu option from the Start menu on the taskbar.
3. Type the following command and follow the instructions of the setup wizard to complete your installation.

```
<source_drive>\setup.exe
```

For example, if the source media is in drive E:, type

```
e:\setup.exe
```

4. Select **Client** on the screen that asks you to select components to install.
5. You will have three types of installations to choose from. We highly recommend that you install the samples.

Typical installs Enterprise Miner Software, Version 3.0 and samples (default).

Compact installs Enterprise Miner Software, Version 3.0 without samples.

Custom allows you to install the samples separately.

Note: This installation will install Enterprise Miner software in an `addon` directory. This is a subfolder of the directory where your SAS System is installed (`!sasroot\addon`).

Enterprise Miner software, Version 3.0 will install to the directory `!sasroot\addon\dmine3`. If you have installed any of the following SAS software products to your SAS System, Enterprise Miner software will be installed to a `dmine3` folder in the same `addon` location:

- SAS/GIS Software
- SAS/PH-Clinical Software
- SAS/Warehouse Administrator Software
- SAS Analyst Application
- SAS Application Sampler
- SAS ADX Interface
- Enterprise Miner Software 2.0x

Note: If you have Enterprise Miner Software, Version 2.0x software installed, Enterprise Miner Software, Version 3.0 will be installed in a separate directory structure in the `addon` subfolder. Version 2 and Version 3 of Enterprise Miner software can run on the same machine, allowing Version 2.0x projects to be exported for conversion. See **Chapter 2, Working with Projects** from the document titled **Getting Started with Enterprise Miner Software, Version 3.0** for more information. You must run the same version of Enterprise Miner software on both your client and server machines.

6. To support enhanced printing for Enterprise Miner software, you will be prompted whether to modify four entries in the SAS/GRAPH devices catalog. Respond `Yes` to dialogs such as the following if you want to modify this catalog.

GIF1200 is Institute-supplied. Do you wish to modify?
Yes
or
No

If you want to modify the catalog at a later time, then respond `No` to the dialogs and run the program `!SASROOT\addon\dmine3\sample\emgifs.sas` when needed.

Applying Enterprise Miner Software Updates to your Enterprise Miner Client Software

1. Insert the CD labeled **Enterprise Miner Software Updates, Release 3.01**.
2. Select the `Run` menu option from the `Start` menu on the taskbar.
3. Type the following command and follow the instructions of the Setup wizard to complete your installation.

```
<source_drive>\WIN.EXE
```

For example, if the source media is in drive E:, type:

```
e:\WIN.EXE
```

Note: Enterprise Miner Software Updates, Release 3.01 must be installed on top of the Enterprise Miner Software, Version 3.0 installation on all Windows server or client systems. Enterprise Miner Software Updates, Release 3.01 should be installed on both the client and the server.

4. Follow the instructions given during the installation.

Starting the Enterprise Miner Client Software User Interface

Enterprise Miner software will start automatically if you double-click on the shortcut installed on your desktop labeled `Enterprise Miner 3.0`. To start Enterprise Miner software from your Windows desktop, go to the `Start` menu on the taskbar and select the `Programs` menu option, then the `Enterprise Miner` menu option, and then the `Enterprise Miner 3.0` menu option.

To restart Enterprise Miner software from within the SAS System, you can enter the `miner` command in the SAS toolbox command area or after the `Command` prompt (obtained by selecting the `Globals` menu, then the `Options` menu option, and then the `Command Line` menu option). Enterprise Miner software cannot be invoked directly from your SAS System installation - please use the shortcuts provided.

Configuring Enterprise Miner Client Software for Remote Projects

To use Enterprise Miner software in client/server mode, you will need to edit the SAS/CONNECT startup script provided in your client installation to invoke Enterprise Miner software. The script files are installed into the `!SASROOT\CONNECT\SASLINK` area by default or you can check for the value of `SASSCRIPT` in your configuration file. For instance, if the SAS System is installed in `d:\sas`, then look in `d:\sas\connect\saslink`. Enterprise Miner software provides two template files, `em3tcpwn.scr` and `em3tcpux.scr`. You should use `em3tcpwn.scr` to connect to Enterprise Miner software on the server Windows platform. You should use `em3tcpux.scr` to connect to Enterprise Miner software on the server UNIX platform. You will need the `addon` location from the server installation to complete this step. See section **IV. Installing and Configuring Enterprise Miner Server Software on the Windows NT Platform.**

Windows Server

If you installed Enterprise Miner Server Software in a location other than the default `c:\sas`, then edit `!SASROOT\CONNECT\SASLINK\em3tcpwn.scr` and change these lines to reference the path where Enterprise Miner Server Software was installed:

```
type 'c:\sas\sas.exe ' ;
type ' -config c:\sas\addon\dm3\config.sas ' ;
type ' -autoexec c:\sas\addon\dm3\autoexec.sas ' ;
```

For instance, if the server add-on was installed in `d:\sas`, then the lines would be changed to:

```
type 'd:\sas\sas.exe ' ;
type ' -config d:\sas\addon\dm3\config.sas ' ;
type ' -autoexec d:\sas\addon\dm3\autoexec.sas ' ;
```

UNIX Server

Edit `!SASROOT\CONNECT\SASLINK\em3tcpux.scr` and change these lines to reference the path where Enterprise Miner Server Software was installed:

```
type '/usr/local/sas612/sas ' ;
type ' -config /usr/local/sas612/addon/dmine3/config.dmine ' ;
type ' -autoexec /usr/local/sas612/autoexec.sas ' ;
```

For instance, if the server add-on was installed in `/disk1/sas612/addon`, then the lines would be changed to:

```
type '/disk1/sas612/sas ' ;
type ' -config /disk1/sas612/addon/dmine3/config.dmine ' ;
type ' -autoexec /disk1/sas612/autoexec.sas ' ;
```

See the **Getting Started with the Enterprise Miner Software** documentation included online and with your media.

Uninstalling Enterprise Miner Client Software

To remove Enterprise Miner Software from a Windows platform, go to the `Start` menu on the taskbar and select the `Programs` menu option, then the `Enterprise Miner` menu option, and then the `Uninstall Enterprise Miner 3.0` menu option.

VII. Appendices

Appendix A - Custom Installation for UNIX Platforms

To install the SAS System on a server UNIX platform using a **Custom** installation, follow the instructions in **Appendix J, Performing a Custom Installation of the SAS System** in the **Installation Instructions for the SAS System under UNIX Environments, Release 6.12 (TS050 and above)**. Select the following SAS software products to ensure that you will have full functionality of all areas of Enterprise Miner software

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

When making your selections for the `Custom Installation Menu`, you must choose `SAS Notes` to extract maintenance from the media in addition to the products above. See the **Addendum to the Installation Instructions for the SAS System under UNIX Environments, Release 6.12** for more information.

Solaris Note If you are installing on Solaris, you must also install the **Solaris 2** product.

If a dual installation has been performed, then `/usr/local/sas612/sas.sol2` should be entered instead of `/usr/local/sas612/sas`.

Continue with the section **Installing Enterprise Miner Server Software** in the section **Installing the SAS System for Enterprise Miner Server Software on the UNIX Platform**.

Appendix B - Custom Installation for Windows Platforms

To install the SAS System on a Windows platform using a **Custom** installation, follow the instructions in the **Installation Instructions for the SAS System under Microsoft Windows, Release 6.12** and select **Custom** on the **Select Setup Type** screen. After making the appropriate customization choices for any non-Enterprise Miner components you are installing in the **Custom Installation** screen, select the following SAS software to ensure that you will have full functionality of all areas of Enterprise Miner software:

- Base SAS software
- SAS/CONNECT software
- SAS/EIS software
- SAS/ETS software
- SAS/FSP software
- SAS/GRAPH software
- SAS/INSIGHT software
- SAS/MDDDB Server software
- SAS/STAT software

Complete the steps for performing a SAS System installation beginning with step 4 in the section **Installing the SAS System for Enterprise Miner Server Software** or **Installing the SAS System for Enterprise Miner Client Software**. Continue with **Applying Release 6.12 Maintenance to Your SAS System for Enterprise Miner Server Software** or **Applying Release 6.12 Maintenance to Your SAS System for Enterprise Miner Client Software**.

SAS® and all other SAS Institute product or service names are registered trademarks or trademarks of SAS Institute Inc. in the USA and other countries.

IBM and all other International Business Machines Corporation product or service names are registered trademarks or trademarks of International Business Machines Corporation in the USA and other countries. Oracle and all other Oracle Corporation product or service names are registered trademarks or trademarks of Oracle Corporation in the USA and other countries. Other brand and product names are registered trademarks or trademarks of their respective companies.

® indicates USA registration.

Copyright (c) 2000 SAS Institute Inc. Cary, NC, USA. All rights reserved.