

Chapter 4 Setting Up Metered Applications

Chapter 3 described the SiteMeter console and provided a quick start guide and a tutorial. This chapter explains in detail how to set up your software applications for software metering.

Introduction

Managing network software is a crucial task in maximizing LAN productivity. By maintaining control over your network applications, you can stay legal and ensure the most efficient use of LAN software. SiteMeter offers you this software control for your DOS, Windows and OS/2 applications without requiring a workstation agent.

Effective management of network software requires controlling the number of simultaneous users of each software application. The maximum number of users differs with each software package and the number of licenses your company has purchased.

SiteMeter helps you keep track of this information, which is useful in determining the need for additional licenses of a particular software application.

For example, suppose that you purchase 5 licenses of a word processing package.

The metering reports indicate that all 5 copies are consistently in use with 3 users waiting in the queue for this application.

This demonstrates the need to purchase additional licenses for this application.

With software metering you only purchase the number of applications you need, reducing unnecessary software expenditures. SiteMeter allows you to meter up to 200 files on a 286 file server and 500 files on a 386 file server.

How SiteMeter Works

Think of SiteMeter as a public library. You go to the library to check out a copy of a book (i.e., software). The library only has two copies of this book, and they are both checked out.

The library places your name on a waiting list (i.e., queue); you then have the option to check out the book once it becomes available.

Once the copy is available, the first person on the waiting list is notified. The library holds this book exclusively for this person for a predetermined amount of time (i.e., queue-back time).

If after that time the person has not checked out the book, the next person on the list is notified of the book's availability. If no one else is waiting for the book, it is returned to the shelf for anyone's use.

SiteMeter works in much the same way. User requests to run applications go through the license server. This program checks for the application's availability; if it is available, the user is allowed to run the program.

Once the maximum number of users is reached (as set by the network administrator), any further attempts to access the software are prevented. SiteMeter then places all other potential users on a waiting list (queue), unless otherwise specified by the network administrator.

Users that are placed in the queue are notified when a free copy of the application is available. The application is held for the exclusive use of the notified user for a specified number of minutes. If the user does not access the application within this time period, it is offered to the next user in the queue.

Access to Metering Setup Functions

The functions needed to setup applications for metering are accessed in two ways:

- ☐ by choosing the Metering button from the tool bar, or
- ☐ by choosing Metering from the Administration menu.

What's in this Chapter

The following chart describes the sections in this chapter:

SECTION	DESCRIPTION
Metered Applications	Describes the parts of a metered application.
Registering Applications for Software Metering	Describes procedures for adding, modifying and deleting metered applications in SiteMeter.
Attaching to and Detaching from File Servers	Describes procedures for attaching to and detaching from file servers while using SiteMeter.

Metered Applications

A metered application is a software application(s) that has been registered with SiteMeter for software metering. When registering a file(s), you need to gather the following information for each application:

- ☐ **File(s) to Meter** - the list of files to be registered. For example, wp.exe. You can also meter suites of applications, such as Microsoft Office, to ensure accurate license compliance. The executables for the applications in a suite would appear in this section.
- ☐ **Metered Application Name** - the name of the application(s) to be registered. For example, WordPerfect.
- ☐ **Full Name** - the entire name of the product or application. This field is ideal for entering descriptive information. For example, WordPerfect Version 5.1 for DOS.
- ☐ **Maximum Number of Concurrent Users** - the total number of licenses purchased for this application.
- ☐ **Password** - an optional password that restricts access to the metering configuration for this metered application. If you decide to assign a password to an application or to a suite of applications, you must supply this password before configuring this metered application (or suite) again.
- ☐ **Queue Back Time** - the amount of time that the application (or suite) is held exclusively for a user waiting in the queue.
- ☐ **Directories in which Trustee Rights are Granted During Execution** - an option that lets you grant temporary rights (trustee assignments) while an application (or suite) is running. See page 56 for more information about trustee rights.

Registering Applications for Software Metering

To control the number of simultaneous users of an application, you must register the application with SiteMeter. When registering a product, you need the information described in the previous section. Once a file is registered, SiteMeter ensures that only the specified number of concurrent users are using that application simultaneously.

Use the following procedure to register an application for metering.

1. **Choose Metering from the Administration menu. From the sub-menu that is displayed, choose the Define Metered Applications command.**

The Define Metered Application dialog box is displayed, as in Figure 4-1.

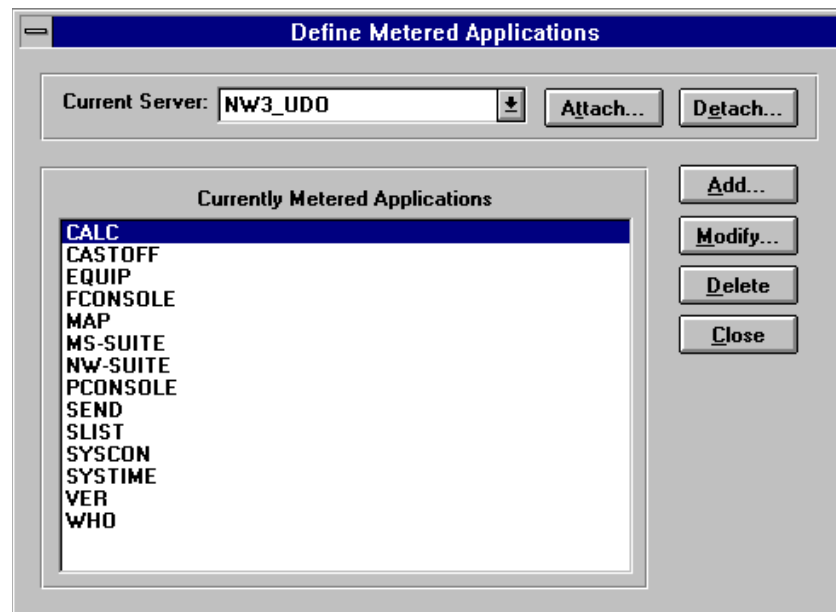


Figure 4-1: Defining Metered Applications

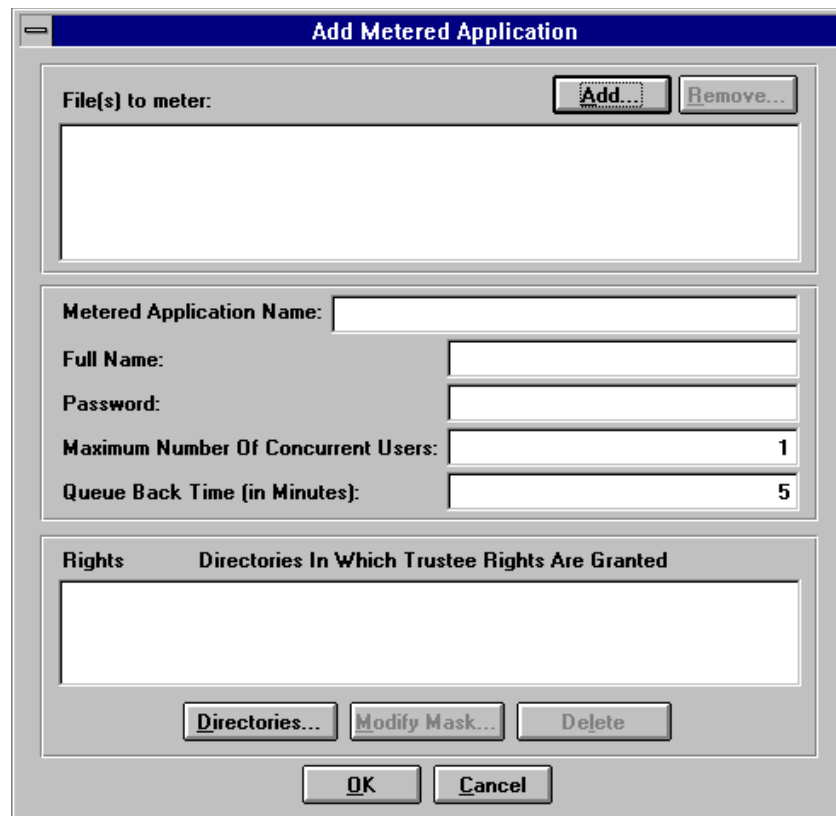
This dialog box displays all files currently registered to be metered. (If you have not registered any files for metering, the list will be blank.)

This dialog box offers the following options:

- ☐ **Add** - allows you to register an application for metering.
- ☐ **Modify** - allows you to change the information already entered for a metered application.

- ☐ **Delete** - allows you to remove an application from metering.
 - ☐ **Attach to/Detach from File Servers** - allows you to attach to or detach from different file servers while in SiteMeter. Refer to page 63 for instructions.
2. **Choose the Add button to register a metered application.**

The Add Metered Application dialog box is displayed, as in Figure 4-2.



The dialog box is titled "Add Metered Application". It contains the following fields and controls:

- File(s) to meter:** A text area with "Add..." and "Remove..." buttons.
- Metered Application Name:** A text field.
- Full Name:** A text field.
- Password:** A text field.
- Maximum Number Of Concurrent Users:** A text field with the value "1".
- Queue Back Time (in Minutes):** A text field with the value "5".
- Rights** and **Directories In Which Trustee Rights Are Granted**: A table with a single empty row.
- Buttons:** "Directories...", "Modify Mask...", "Delete", "OK", and "Cancel".

Figure 4-2: Adding Metered Applications

3. **Choose the Add button.**

The Browse for Files to Meter dialog box is displayed, as shown in Figure 4-3.

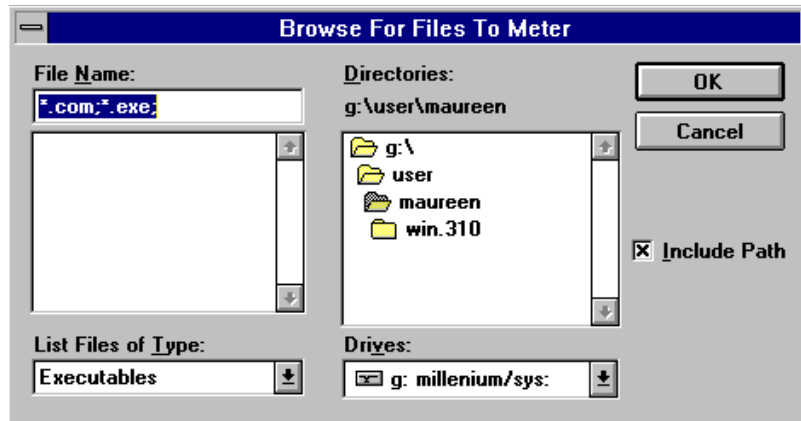


Figure 4-3: Selecting Files to Meter

4. **Select the appropriate filename (and directory, which is optional) from the list and choose the OK button to insert that filename in the File(s) to Meter text box. You can select multiple files for suite metering.**

NOTE:

To include the file's entire path, select the Include Path option. The entire path and file name will be inserted in the File(s) to Meter text box.

You are returned to the Add Metered Application dialog box.

5. **Select the Metered Application Name text box and enter the metered application name.**
For example: WordPerfect. You cannot enter spaces in the metered application name.
6. **Select the Full Name text box and type the full name of the application.**
You can also enter descriptive information about the application you are metering. For example: WordPerfect Version 5.1 for DOS.
7. **Select the password text box and enter a password for this Metered Application (optional).**

Entering a password is optional. If you assign a password to this application or suite, you must provide this password before reconfiguring this metered application (or suite of applications).

The password does not appear in the Password text box.

NOTE:

Assigning a password does not require users to enter that password before running the application. Instead it protects the metered application information you entered from any unauthorized changes.

- 8. Select the Maximum Number of Concurrent Users text box and enter the number of licenses you have purchased for this application.**

One is the default.

- 9. Select the Queue Back Time text box and enter an appropriate length of time.**

Entering a Queue Back Time is also optional. Queue Back Time is the length of time in minutes that an application is held exclusively for a queued user after he or she has been notified of its availability.

If no time is specified, the queue-back feature is disabled.

The default time is five minutes.

- 10. If you want to grant trustee rights continue with the next section. Otherwise, choose the OK button to exit this dialog box.**

If you choose the OK button, you have finished registering this application for software metering.

NOTE:

The information that you entered for the metered application can be changed if necessary. Refer to page 59 for instructions on modifying applications.

Trustee Rights

This option allows you to grant temporary rights (trustee assignments) to users while an application is running.

This option is only in effect for users running NetWare 3.x. As the network administrator, you always have access to this feature, but only users running NetWare 3.x can be granted trustee assignments.

For example, you can configure the metering of an application so that a user has rights to the ACCOUNTS directory only while he or she is running the Accounts Receivable package. This prevents users from copying/viewing/deleting financial data files from outside the application.

Please note the following when using this option:

- ☐ **Rights for Named File Only** - Secured Directory rights are available only for the file whose execution is being tracked. For example, if the application is WordPerfect (WP.EXE), you have Secured Directory rights while running this application. However, if you issue the DOS Shell command and exit into DOS, all rights are revoked until you EXIT back to WordPerfect.
- ☐ **Use Group Inheritance for Continuous Rights Inheritance** - if you need a continuous "base" of rights in a directory affected by a Secured Directory definition, you **MUST** define those rights via SYSCON's Group Inheritance.
- ☐ **Supervisor Equivalent** - if a user is a Supervisor or has Supervisor Equivalence, the Directory Security Mask feature does not affect that user.
- ☐ **Spawned Applications** - if you define Directory Security for an application and that application calls another application (e.g., a menu system), the called application will not automatically receive Directory Security rights. If you wish the called application to have Directory Security rights, you must meter and grant rights to each called application.

NOTE:

You must have either SWATCHER.TSR loaded to activate the trustee windows necessary to assign rights to your network users.

Use the following procedure to grant trustee rights.

- 1. From the Add Metered Applications dialog box, choose the Directories button.**

The Select a Drive/Directory dialog box is displayed, as shown in Figure 4-4. This dialog box allows you to traverse all directories.

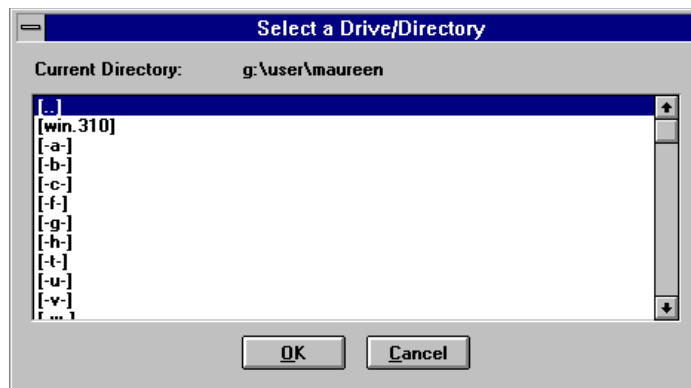


Figure 4-4: Selecting a Drive or Directory

2. Double click on the desired drive.

A list of directories on that drive is displayed.

3. From the list, double click on the desired directory.

The new drive/directory is displayed as your Current Directory. This is where you will grant trustee rights.

4. Choose the OK button to grant rights.

The Select Rights Mask dialog box is displayed, as in Figure 4-5.



Figure 4-5: Selecting Rights Mask

5. To assign rights, select the desired right from the Rights Available to Grant list and then choose the Include button.

The right is displayed in the Rights Granted list.

To include all rights, choose the Include All button.

If you wish to remove a right you have already assigned, select the right from the Rights Granted list and then choose the Remove button. To remove all rights, choose the Remove All button.

6. Choose the OK button to exit the Select Rights Mask dialog box.

In the Add Metered Applications dialog box, the rights you assigned and the directory in which they were assigned are shown in the text box.

7. Repeat steps 1 through 6 for all directories where you wish to grant rights.

8. Choose the OK button to exit the Add Metered Applications dialog box.

Notice that the directories in which you granted rights are shown in the Directories in Which Trustee Rights are Granted list.

This completes registering this metered application.

NOTE:

To modify or delete these rights once they have been assigned and appear in the text box, refer to page 61.

Modifying an Application's Metering Configuration

You can modify any of the metered application information you provided when registering the software for metering.

Use the following procedure to change metered application information.

1. Choose Metering from the Administration menu. From the sub-menu that is displayed, choose the Define Metered Application command.

The Define Metered Application dialog box is displayed.

2. Select the application you wish to modify.

3. Choose the Modify button.

If the application does not have a password associated with it, the Modify Metered Application dialog box is displayed with all the information you

provided when registering this application for metering, as shown in Figure 4-6.

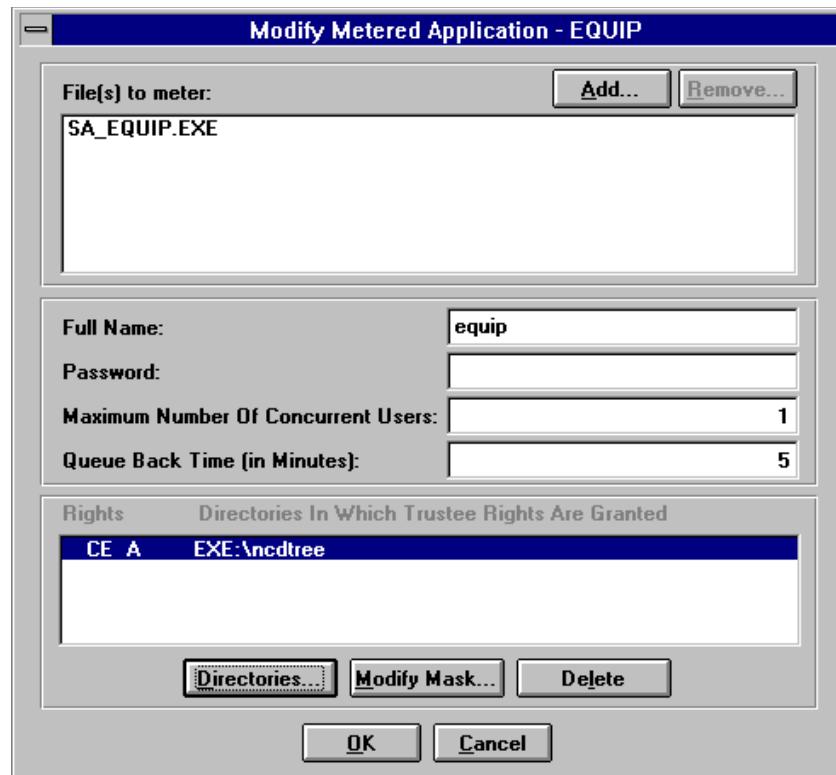


Figure 4-6: Modifying Metered Applications

If the application (or suite) does have a password assigned to it, a dialog box is displayed prompting you to enter that password. Enter either the Metered Application or the Supervisor Password and then choose the OK button.

4. Select the file(s) you wish to modify from the File(s) to meter list box.

This list box allows you to meter a suite of applications that share a license agreement. For example, if you have one license agreement which covers three applications, only one person should be able to access any of these three applications at one time (as opposed to three different users using the three different applications at one time). By selecting all the files belonging to a suite of applications, you can modify the name, password, maximum

number of concurrent users, queue back time and trustee rights for all files under a single license.

5. **Make all necessary changes to the information shown in the window by selecting the text box and typing the new data.**

NOTES:

a - The changes you make do not take effect until you choose the OK button. The file server console reflects the changes made by displaying "Refreshing Filename Table for Metered Applications."

b - Refer to page 61 for information on modifying trustee rights.

6. **Choose the OK button to exit the Modify Metered Application dialog box and save your changes.**

You are returned to the Define Metered Application dialog box where you can either modify other applications or exit this dialog box by choosing the Close button.

Modifying Trustee Rights

In addition to changing the metered application information described in the previous section, you can also reassign or delete the trustee rights you had previously granted.

Use the following procedure to modify trustee rights.

1. **From the Modify Metered Application dialog box, select the directory whose rights you wish to modify.**

2. **Choose the Modify Mask button.**

The Select Rights Mask dialog box is displayed.

3. **Include additional rights by selecting the desired right from the Rights Available to Grant list and choosing the Include button.**

You can also include all available rights by choosing the Include All button.

4. **Remove existing rights by selecting the desired right from the Rights Granted list and choosing the Remove button.**

You can remove all the granted rights by choosing the Remove All button.

5. **Choose the OK button to exit the Select Rights Mask dialog box.**

The Modify Metered Application dialog box is displayed with the changes you made to the granted rights.

Deleting Rights

You can also delete all the rights you assigned from the Modify Metered Application dialog box.

NOTE:

Deleting rights does not delete any of those rights which users may have permanently assigned to them through Novell's system.

Use the following procedure to delete trustee rights.

1. **Select the desired directory from the Directory In Which Trustee Rights Are Granted list.**
2. **Choose the Delete button.**

The rights are removed from this directory.

Deleting Metered Applications

You can remove an application from SiteMeter. This procedure does not remove the application from your network; it merely releases it from being metered by SiteMeter.

Use the following procedure to delete applications from SiteMeter.

1. **Choose Metering from the Administration menu. From the sub-menu that is displayed, choose the Define Metered Applications command.**

The Define Metered Application dialog box is displayed.

2. **Select the application to delete.**
3. **Choose the Delete button.**

If the application has a password associated with it, you are prompted to enter that password.

4. **From the prompt that is displayed, choose the Yes button to delete the metered application.**
5. **Choose the Close button to exit this window.**

Attaching to and Detaching from File Servers

SiteMeter offers you flexibility in managing your network applications. Many of the metering dialog boxes, such as the one shown in Figure 4-7, allow you to attach to and detach from file servers in a multi-server environment on your LAN.

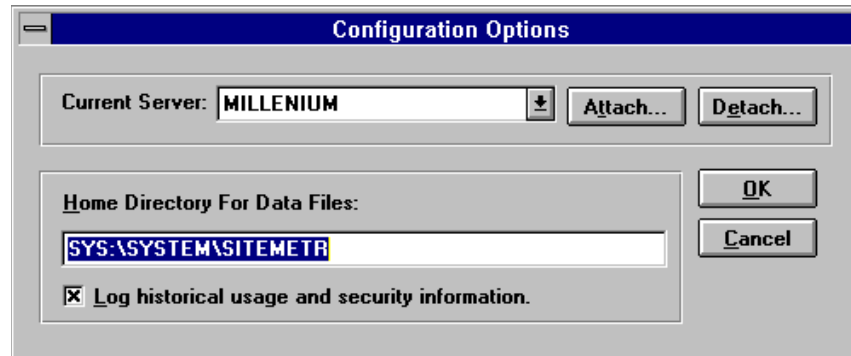


Figure 4-7: Attaching to and Detaching from File Servers

Using the Attach and Detach buttons, you can change file servers quickly and easily. In doing so, you can control metering on any file server you wish. This feature allows you to log in and out of file servers while using SiteMeter.

This tool will be particularly useful when you register applications for software metering.

The following section describes the attaching and detaching procedures. Refer to the section entitled “Modifying Application Information” in Chapter 6 for instructions about both the home directory and logging historical data.

The steps outlined in these two sections describe attaching to and detaching from file servers from the Configuration Options dialog box. Many of SiteMeter’s dialog boxes have Attach and Detach buttons.

NOTE:

If you choose these buttons from a dialog box, you can skip step 1 of these two procedures.

Attaching to a File Server

Use the following procedure to attach to a file server.

1. **Choose Metering from the Administration menu. From the sub-menu that is displayed, choose the Configuration Options command.**

The Configuration Options dialog box is displayed. Your current server automatically is displayed; you can choose another server from this list box.

2. **Choose the Attach button.**

The Attach to Server dialog box is displayed, as shown in Figure 4-8.



Figure 4-8: Attaching to another File Server

3. **From the list box, select the file server to which you wish to attach.**
4. **Enter your user name and password to attach to that file server.**
5. **Choose the OK button to exit this dialog box.**
6. **Choose the OK button to exit the Configuration Options dialog box.**

Detaching from a File Server

Use the following procedure to detach from the current file server.

1. **Choose Metering from the Administration menu. From the sub-menu that is displayed, choose the Configuration Options command.**

The Configuration dialog box is displayed. Your current server automatically displays; you can select a different file server from this list box.

2. **Choose the Detach button.**

The Detach from Server dialog box is displayed.

3. **Select the desired file server from the drop-down list box.**
4. **Choose the OK button to detach from this file server.**

NOTES:

a - You cannot detach from the file server from which SiteMeter was launched.

b - You cannot detach from a file server if it is the only file server to which you are attached or if it is your current file server.

5. **Choose the OK button to exit the Configuration Options dialog box.**

Notes