



Getting Started with StorHouse/Control Center

StorHouse/Control Center Release 2

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Welcome

Welcome to StorHouse/Control Center (CC), FileTek's Windows®-based network computing system for providing administrative control of the StorHouse family of products.

Use this guide to install and configure the basic StorHouse/Control Center software and each of the StorHouse/Control Center modules.

Audience

This guide is intended for technical personnel responsible for installing and maintaining StorHouse/Control Center systems. It assumes you understand Microsoft Windows concepts and are familiar with TCP/IP networks and networking concepts, such as domain name servers and IP ports.



What's inside

This guide is organized as follows:

- Chapter 1, “Introducing StorHouse/Control Center,” describes StorHouse/Control Center, including the Server and each StorHouse/Control Center module.
- Chapter 2, “Installing the Environment,” guides you through the installation and configuration of the StorHouse/Control Center Server and accompanying Server administration software (CCAdmin).
- Chapter 3, “StorHouse/Admin,” explains how to install and configure the StorHouse/Admin module.
- Chapter 4, “StorHouse/Performance Monitor,” explains how to install and configure the StorHouse/Performance Monitor module.

What you need

You should have an installation CD containing the following software — StorHouse/Control Center Server and StorHouse/ODBC driver, CCAdmin, StorHouse/Admin, StorHouse/Performance Monitor, and online documentation.

Getting online help

The integrated online help system provides information to help you use StorHouse/Control Center. While this book explains the basics, the online help contains step-by-step procedures and complete reference information for each StorHouse/Control Center module.



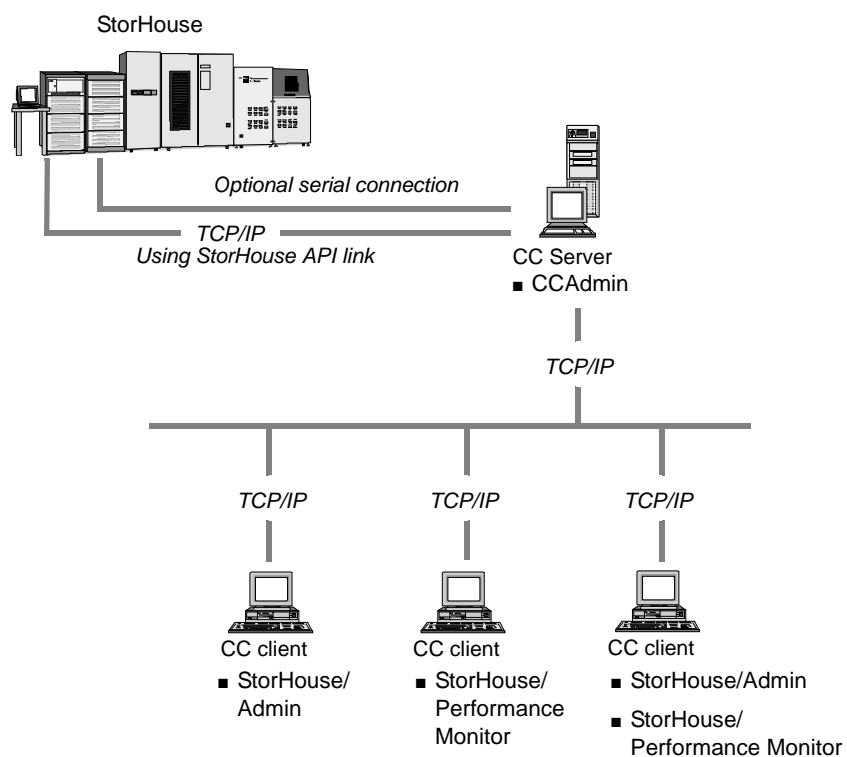
Introducing StorHouse/Control Center

StorHouse/Control Center is FileTek's Windows®-based application for system and database administration. It supports an easy-to-use graphical user interface (GUI) that greatly simplifies StorHouse storage and database management tasks. StorHouse/Control consists of one or more StorHouse/Control Center Servers communicating with StorHouse/Control Center modules over a TCP/IP network. StorHouse/Control Center Servers must run on Windows NT, Windows 2000, or XP Pro computers, while StorHouse/Control Center modules can run on Windows 95/98, Windows NT, Windows 2000, or XP Pro computers.

The three modules — CCAdmin, StorHouse/Admin, and StorHouse/Performance Monitor (PM) — open and run within the StorHouse/Control Center framework, a graphical environment that



provides common services to all modules. You can install all of the modules, or some combination of modules on any client computer, as indicated in the following sample configuration.





StorHouse/Control Center Server

The StorHouse/Control Center Server is a program that allows StorHouse/Control Center modules to communicate with StorHouse systems. The program resides on a computer running Microsoft Windows NT, Windows 2000, or XP Pro and communicates with both the StorHouse system and the StorHouse/Control Center modules through a TCP/IP network and optional serial ports.

StorHouse/Control Center modules send requests to the StorHouse/Control Center Server, which parses the requests and forwards them to the designated StorHouse system. The StorHouse/Control Center Server then forwards StorHouse system responses back to the requesting StorHouse/Control Center modules.

The StorHouse/Control Center Server also regularly issues two StorHouse system commands — `SHOW DEVICE *` and `MONITOR /ALL` — at intervals you set using CCAdmin. These commands provide the device status and performance information necessary for client modules, such as StorHouse/Admin.

To enable the StorHouse/Control Center Server to talk to StorHouse/RM, you must also install and configure the StorHouse/ODBC driver, which is included on the StorHouse/Control Center installation CD.



StorHouse/Control Center framework

The StorHouse/Control Center framework is the graphical environment where all your StorHouse/Control Center modules run. The StorHouse/Control Center modules work through this framework to communicate with StorHouse/Control Center Servers and StorHouse systems.

The framework provides centralized common services to the application modules and runs at workstations under Windows 95/98, Windows NT, Windows 2000, or XP Pro. When you install any StorHouse/Control Center module, the installation program also installs the framework. If the framework is already on the computer, the installation program allows you to replace it if it's an older version or leave it in place if it's current.



CCAdmin

CCAdmin is a StorHouse/Control Center module that provides graphical tools to help you monitor and manage your StorHouse/Control Center Servers. Like all StorHouse/Control Center modules, CCAdmin runs within the StorHouse/Control Center framework and works with one or more StorHouse/Control Center Servers. Typically, you install CCAdmin on the same computer where the StorHouse/Control Center Server resides, but you can also install CCAdmin remotely on other computers that communicate with a StorHouse/Control Center Server over the network.

Using CCAdmin you can:

- Make StorHouse systems available to a StorHouse/Control Center Server (add StorHouse systems)
- Remove or reconfigure a StorHouse/Control Center Server's available StorHouse systems
- Establish or terminate connections between StorHouse/Control Center Servers and specific StorHouse systems
- Establish serial connections between StorHouse/Control Center Servers and StorHouse systems
- Configure label printers to print labels for blank volumes
- Collect diagnostic information, data about the client workstation, performance statistics, and activity information about StorHouse/Control Center Servers



StorHouse/Admin

StorHouse/Admin provides the administration and operation tools for StorHouse. Using visual elements such as pull-down menus, option lists, point-and-click controls, and intelligent prompting, StorHouse/Admin simplifies the tasks of storage management, database management, security administration, and system operation.

StorHouse security privileges extend into the StorHouse/Admin interface, hiding or revealing features as allowed by user security profiles. Comprehensive general and context-sensitive help information is available to users. In addition, StorHouse/Admin makes it easy to schedule system activities and respond to operator request messages.

StorHouse/Admin also provides real-time monitoring of functions such as StorHouse server CPU usage, mounted volumes, device status, and request activity. The StorHouse administrator can get an immediate picture of StorHouse status and identify potential performance or resource shortcomings.

StorHouse/Performance Monitor

StorHouse/Performance Monitor is a graphical tool for monitoring and analyzing the performance of your StorHouse system from your Windows 95/98, Windows NT, Windows 2000, or XP Pro computer. You can monitor up to 24 performance measures and create reports that display historical information about each performance measure in a variety of ways.

You can also use StorHouse/Performance Monitor to display more extensive real-time system activity information.

C H A P T E R 2



Installing the Environment

The following procedures help you to install a typical StorHouse/Control Center Server environment. When you're finished, you'll be able to run the StorHouse/Control Center Server and configure, manage, and monitor the Server with CCAdmin. After you complete these procedures, you should proceed to Chapters 3 and 4 to configure and install the StorHouse/Admin and StorHouse/Performance Monitor modules, respectively.

- ▼ To install the StorHouse/Control Center environment, perform the following procedures in this order
- 1. Install and configure the StorHouse/ODBC driver.
- 2. Install the StorHouse/Control Center Server.
- 3. Install the StorHouse/Control Center framework and CCAdmin.



4. Configure the StorHouse/Control Center Server with CCAdmin.

Installing and configuring the StorHouse/ODBC driver

To allow the StorHouse/Control Center Server to communicate with StorHouse/RM, you must install and configure the StorHouse/ODBC driver on the computer where you will install the StorHouse/Control Center Server. You should do this before you install the StorHouse/Control Center Server.

The StorHouse/ODBC driver has its own installation program on the StorHouse/Control Center installation CD.

Note: You do not need to install the StorHouse/ODBC driver if you have a StorHouse/SM-only system. The StorHouse/ODBC driver is for StorHouse/RM systems.

▼ To install and configure the StorHouse/ODBC driver

1. Close all open programs on the Windows computer where you will install the StorHouse/Control Center Server.
2. Insert the StorHouse/Control Center installation CD into the CD-ROM drive of the computer. The StorHouse/Control Center setup program starts automatically.
3. On the Welcome to StorHouse/Control Center setup menu, click Browse this CD.
4. From the list of directories and files that appears, double-click the ODBC directory.



5. Click setup.exe.
6. In the Welcome dialog box, click Next.

The setup program copies the StorHouse/ODBC driver files to your computer.

7. In the Configure ODBC dialog box, click Yes to configure a data source.
8. In the ODBC Data Source Administrator dialog box, click the System DSN tab and click Add.

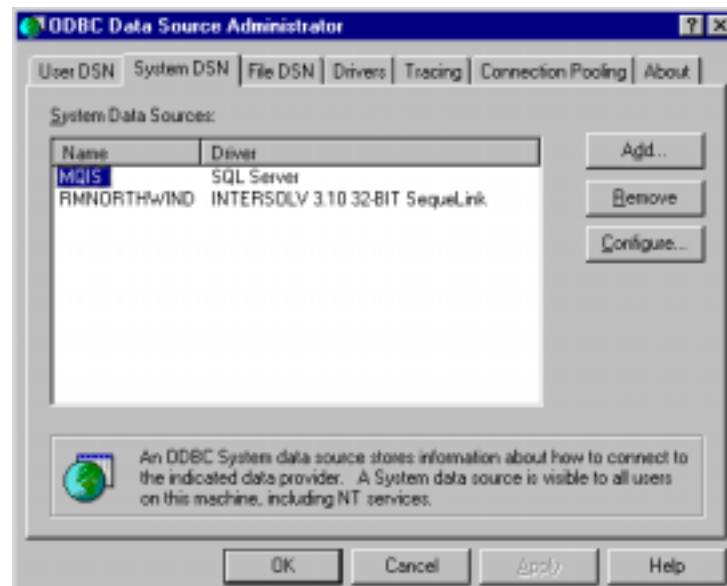


Figure 2-1: ODBC Data Source Administrator dialog box – System tab



9. In the Create New Data Source dialog box, click StorHouse Server 2.x (32-bit) and click Finish.

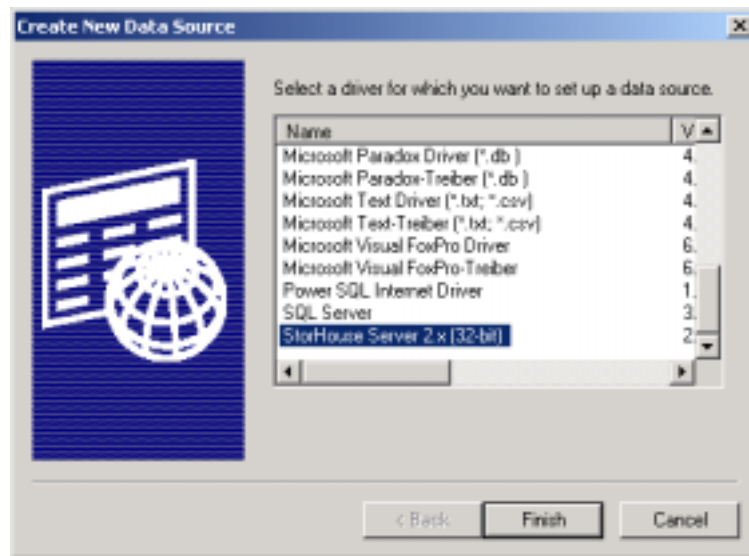


Figure 2-2: Create New Data Source dialog box



10. In the ODBC StorHouse Driver Setup dialog box, enter the values for the data source. In the following example, the data source is called RMODBC.

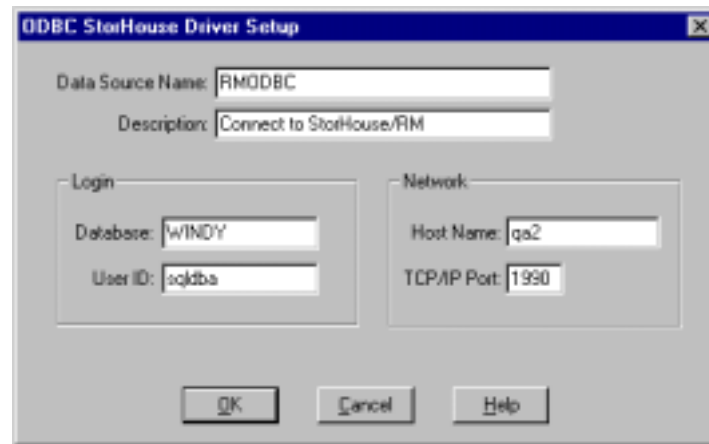


Figure 2-3: StorHouse/ODBC Driver Setup

- a. In the **Data Source Name** box, type the DNS name of your StorHouse system.
 - b. In the **Description** box, delete any text. (Leave this box blank.)
 - c. In the **Database** box, delete any text. (Leave this box blank.)
 - d. In the **User ID** box, delete any text. (Leave this box blank.)
 - e. In the **Host Name** box, type the name of the host where StorHouse resides.
 - f. In the **TCP/IP Port** box, type the TCP/IP port number on the host. The default value is 1990.
11. Click OK.



12. In the ODBC Data Source Administrator dialog box, notice the new data source (for example, RMODBC) in the **System Data Sources** list. Click OK.

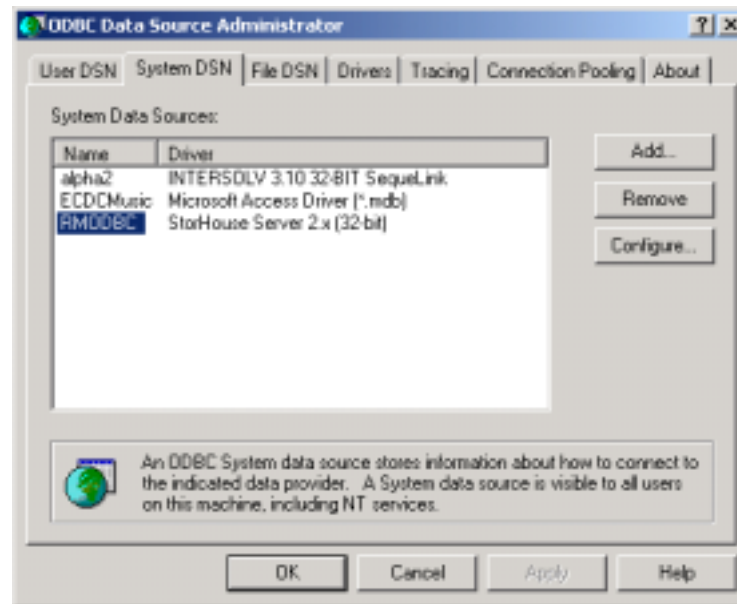


Figure 2-4: New data source

13. In the Installation Complete dialog box, click Finish.

You do not have to restart the computer.



Installing the StorHouse/Control Center Server

After you install the StorHouse/ODBC driver, you are ready to install the StorHouse/Control Center Server. Once the Server is running on a Windows NT, Windows 2000, or XP Pro computer on a network that supports TCP/IP, your StorHouse/Control Center modules can begin communicating with StorHouse systems through the StorHouse/Control Center Server.

The StorHouse/Control Center Server runs as a Windows service, and does not have an interface of its own. The Server runs as long as the computer where it is installed is running.

Note: You must be logged in to the computer as an administrator to install CC Server.

▼ To install the StorHouse/Control Center Server as a service

1. Close all open programs on the Windows computer where you are installing the Server.
2. Insert the StorHouse/Control Center installation CD into the CD-ROM drive of the computer. The StorHouse/Control Center setup program starts automatically.
3. On the Welcome to Control Center setup menu, click CC Installation.
4. On the CC Installation setup menu, click CC Server.
5. In the Welcome dialog box, click Next.



6. In the Choose Destination Location dialog box, click Next. The location listed on this dialog box is where the installation program will install the StorHouse/Control Center Server.

Note: The default location is C:\Program Files\ControlCenter2\Bin. You can click Browse to install CCAdmin elsewhere, but FileTek recommends you accept the default location.

7. In the Start Installation dialog box, click Next. The program automatically installs the StorHouse/Control Center Server as a service (but does not start the service).
8. In the Information dialog box, click OK to confirm the successful installation.
9. In the Installation Complete dialog box, click Finish.
10. Reboot your computer. Once you have rebooted your computer, the StorHouse/Control Center Server will automatically start as a service.
11. Proceed to the next procedure, “Installing CCAdmin.”

Installing CCAdmin

After you install the StorHouse/Control Center Server, you should immediately install CCAdmin, then use CCAdmin to configure the operation of your StorHouse/Control Center Server. You should install CCAdmin on the same computer that runs the StorHouse/Control Center Server, but you can also install copies on one or more other computers that will access the StorHouse/Control Center Server remotely.



When you install CCAdmin, you also install the StorHouse/Control Center framework on that computer.

In addition, you can set up the StorHouse/Control Center framework and CCAdmin for use on remote computers without reinstalling the software. See “Setting up remote computers to run CCAdmin” on page 2-18.

Note: If you are installing CCAdmin on a computer that already has the StorHouse/Control Center framework installed, you do not need to reinstall the StorHouse/Control Center framework. Skip to “Installing CCAdmin without installing the StorHouse/Control Center framework” on page 2-11.

Installing CCAdmin and the StorHouse/Control Center framework

This procedure explains how to install CCAdmin and the StorHouse/Control Center framework.

- ▼ To install CCAdmin and the StorHouse/Control Center framework
 1. Close all open programs on the computer where you are installing the the StorHouse/Control Center framework and CCAdmin.
 2. If necessary, insert the StorHouse/Control Center installation CD into the CD-ROM drive of the computer. The StorHouse/Control Center setup program starts automatically.
 3. On the Welcome to Control Center setup menu, click CC Installation.
 4. On the CC Installation setup menu, click CCAdmin.
 5. In the Welcome dialog box, click Next.



6. In the Start Installation dialog box, click Next.
7. In the Choose Destination Location dialog box, click Next. The location listed on this dialog box is where the installation program will install the StorHouse/Control Center framework and CCAdmin files.

Note: The default location is C:\Program Files\ControlCenter2\Bin. You can click Browse to install the StorHouse/Control Center framework and CCAdmin elsewhere, but FileTek recommends you accept the default location.
8. In the Select Program Manager Group dialog box, make sure Control Center appears in the box at the top, then click Next.
9. In the Start Installation dialog box, click Next. The program installs the StorHouse/Control Center framework.
10. In the Desktop Shortcut dialog box, click Yes to create a shortcut for StorHouse/Control Center on your desktop.
11. In the Installation Complete dialog box, click Next. The program installs the CCAdmin module.
12. In the Installation Complete dialog box, click Finish.
13. On the Control Center setup menu, click Exit CC Installation.
14. On the Welcome to Control Center setup menu, click Exit Setup.
15. Proceed to “Configuring the Control Center Server with CCAdmin” on page 2-12.



Installing CCAAdmin without installing the StorHouse/Control Center framework

You may want to install CCAAdmin on a computer where you have already installed another StorHouse/Control Center module (StorHouse/Performance Monitor or StoreHouse/Admin). In this case, you have also already installed the StorHouse/Control Center framework, and you do not need to reinstall it on that computer.

- ▼ To install CCAAdmin without installing the StorHouse/Control Center framework
 1. Close all open programs on the computer where you are installing CCAAdmin.
 2. If necessary, insert the StorHouse/Control Center installation CD into the CD-ROM drive of the computer. The StorHouse/Control Center setup program starts automatically.
 3. On the Welcome to Control Center setup menu, click CC Installation.
 4. On the CC Installation setup menu, click CCAAdmin.
 5. In the Welcome dialog box, click Next.
 6. In the Reinstall CC Framework dialog box, click No, then click Next.

Note: If you click Yes when asked if you want to reinstall the StorHouse/Control Center framework, the installation procedure will proceed as described in “Installing CCAAdmin and the StorHouse/Control Center framework” on page 2-9.
 7. In the Start Installation dialog box, click Next. The program installs CCAAdmin.



8. In the Installation Complete dialog box, click Finish.
9. On the Control Center setup menu, click Exit CC Installation.
10. On the Welcome to Control Center setup menu, click Exit Setup.
11. If you need to configure a StorHouse/Control Center Server, proceed to the next procedure “Configuring the Control Center Server with CCAdmin.”

Configuring the Control Center Server with CCAdmin

After you've installed both the StorHouse/Control Center Server and CCAdmin, you must configure the Server with CCAdmin. When you configure the StorHouse/Control Center Server you make a StorHouse system available to the server. The StorHouse/Control Center modules can then communicate with this StorHouse system through the StorHouse/Control Center Server.

You configure the StorHouse/Control Center Server in two steps:

- Configure a data source for CCAdmin. A data source consists of a specific StorHouse system attached to a specific StorHouse/Control Center server.
- Add a StorHouse system to CCAdmin.



Gathering information about the StorHouse system

Before you can configure a StorHouse/Control Center Server to communicate with a StorHouse system, you need some information about the StorHouse system. Specifically, you need the:

- Domain Name Server (DNS) name or IP address of the StorHouse system
- StorHouse login account name and password defined for this StorHouse/Control Center Server on the StorHouse system. This account should have the StorHouse command and access privilege, ALLPRIVILEGE.

The StorHouse system administrator must establish the login account and password for the StorHouse/Control Center Server.

Configuring a data source with CCAdmin

You must configure a data source by using CCAdmin's data source configuration wizard.

▼ To configure a data source with CCAdmin

1. Start Control Center by double-clicking its desktop icon.
2. On the Selection Bar on the left of the StorHouse/Control Center window, click the CCAdmin shortcut icon.
3. In the Information dialog box that tells you there's no data source configured for the shortcut, click OK.
4. In the CC Client Configuration Wizard dialog box, click New next to the **CC server** box.



5. In the Define CC Server dialog box in the **CC server name** box, type a valid DNS name for a networked computer that has the StorHouse/Control Center Server software installed and running. This can be the server you just installed or another server you previously installed. This tells CCAdmin how to find the StorHouse/Control Center Server.
6. Accept the default value 8020 for the **TCP/IP port** box, or, if necessary, type another valid port number.
7. Click OK.
8. Click Next.
9. In the next dialog box in the **Data source name** box, accept the default name or type a new name for the data source. This should be a descriptive name that will help you identify the data source. For example, you might give the data source the same name as the server.
10. Click Next.
11. In the next dialog box in the **Shortcut name** box, accept the default name or type a new name. This name will appear with the shortcut on the Selection Bar and will help you identify which StorHouse/Control Center Server you'll be administering.
12. Click Finish.
13. The CCAdmin icon now includes the shortcut name you assigned it. Proceed to the next section "Adding a StorHouse system to CCAdmin."



Adding a StorHouse system to CCAdmin

The final step in the server configuration is to add a StorHouse system to CCAdmin.

▼ To add a StorHouse system to CCAdmin

1. On the Selection Bar on the left of the StorHouse/Control Center window, click the CCAdmin shortcut icon you just configured.
2. In the ccfame2 dialog box, click OK to confirm there are no StorHouse machines defined.
3. Click the StorHouses button under the toolbar at the top of the window.
4. Click Add new StorHouse.
5. In the StorHouse Definition Wizard dialog box in the top text box, type name containing six or fewer characters to identify the StorHouse system. This is a name that you choose.
6. In the second text box, type the DNS name for the StorHouse system you are adding. This name identifies the StorHouse system on the TCP/IP network.
7. The value in the **IP port address** box is 1200 by default. Edit this value, if necessary.
8. If you want to connect automatically to the StorHouse system when the definition is complete, make sure the check box at the bottom is selected.
9. Click Next.



10. In the next dialog box in the **Login account ID** box, type a valid account ID for the StorHouse system you are adding. Your system administrator should have defined this account name for this StorHouse/Control Center Server. This is the account this server will use to log in to the StorHouse system.
11. In the **Login password** and **Confirm password** boxes, enter and confirm the password for the account ID you just entered. Your system administrator should have defined this password for this server. This is the password associated with the login account for this StorHouse/Control Center Server.
12. Click Next.
13. In the next dialog box, accept the default time intervals or set new intervals. The settings and defaults are as follows:
 - **Monitor:** Default is 1. This tells the StorHouse/Control Center Server to issue the MONITOR /ALL command every minute.
 - **Show device:** Default is 1. This tells the StorHouse/Control Center Server to issue the SHOW DEVICE * command every minute.
 - **Reconnect:** Default is 1. This tells the StorHouse/Control Center Server to try to re-establish a connection every minute if a StorHouse system stops responding.
14. Click Next.
15. In the next dialog box, accept the defaults for user logging or change the settings. The settings and defaults are as follows:
 - **Enable user log processing:** Default is enabled. This turns on the User Log server to collect StorHouse User Log information for



the StorHouse/Control Center Server and to provide operator messages.

Note: User log processing must also be enabled on the StorHouse system where the StorHouse/Control Center server is running. On the StorHouse system, ensure that the LOG_SERVER system parameter is set to TRUE.

- **“Catch up” on User Log contents when server is restarted:**
Default is disabled, which means the StorHouse User Log server will only begin collecting data for the User Log from the moment the server is restarted. If you enable this option, the StorHouse User Log server writes all data from the beginning of its current interval to the User Log when the server is started.
- **User Log IP Port Address:** Default is 1201. This is always 1 greater than the IP Port address, which has a default value of 1200. This setting allows the StorHouse/Control Center Server to communicate with the User Log server on the StorHouse system.

16. Click Next.

17. In the next dialog box, click Next.

18. In the next dialog box, if you have StorHouse/RM, accept the default maximum number of concurrent StorHouse/RM requests (10), or type a different number. This limits the number of requests StorHouse/RM processes simultaneously for StorHouse/Control Center. If you have StorHouse/SM only, type 0.

19. Click Finish.

20. In the Confirm dialog box, click OK to confirm an update to the remote system registry. The new StorHouse system now appears in the list, with a colored circle symbol to its left. If you’ve successfully



connected to the StorHouse system and to the User Log server on that system, the circle will be green and contain a plus sign.

Setting up remote computers to run CCAdmin

After you have installed the StorHouse/Control Center framework and CCAdmin on one computer, you can set up remote computers to run CCAdmin without having to install the StorHouse/Control Center framework and CCAdmin on the remote computers.

To do this, you must first make the directory on the computer where you installed the StorHouse/Control Center framework and CCAdmin accessible over a network to the computer(s) where you want to enable remote access. Then, on the remote computer, map a path to that directory.

- ▼ To set up a remote computer to run CCAdmin
 1. On the remote computer where you want to run CCAdmin, right-click the My Computer icon on the desktop, and click Explore on the menu that appears.
 2. On the Exploring - My Computer window, navigate to the shared drive and directory where the StorHouse/Control Center software is installed.
 3. Double-click the file named InstCCAdmin2.EXE.
 4. Follow the screen prompts in the setup program.

The setup program creates a desktop shortcut for StorHouse/Control Center on the remote computer. This shortcut points to the computer



where you originally installed StorHouse/Control Center. To run CCAdmin on the remote computer, double-click the desktop shortcut for StorHouse/Control Center, then click the CCAdmin icon on the Selection Bar on the StorHouse/Control Center framework window.

Upgrading the StorHouse/Control Center Server

As mentioned on page 2-7, the StorHouse/Control Center Server runs as a Windows service and does not have an interface of its own. The Server runs as long as the computer where it is installed is running. You must be logged in to the Windows NT, Windows 2000, or XP Pro server as an administrator to upgrade CC Server.

There are five steps you must perform to upgrade the StorHouse/Control Center Server software:

1. If you were running the previous release of StorHouse/Control Center Server as a service, stop the service and proceed to Step 2.

If you were not running the previous release of StorHouse/Control Center server as a service, shut down the StorHouse/Control Center server and proceed to Step 3. To do this from the StorHouse/Control Center Server window, click File and then click Shutdown Control Center.

2. Remove the current StorHouse/Control Center Server as a service.
3. Install the new version of StorHouse/Control Center Server.
4. Install the new version of CCAdmin.



5. Delete any CC Server desktop shortcuts from previous releases.

Each of these steps is described below as a complete procedure.

Warning: Do not remove the StorHouse/Control Center Server software using the Add/Remove Programs feature of Windows because you will delete all your StorHouse system definitions.

▼ To stop the current StorHouse/Control Center Server service

1. Log in to the computer that is running CC Server as an administrator or as a user with administrator privileges.
2. On the Windows task bar, click Start, point to Settings, and click Control Panel.
3. If you have a Windows 2000 system, double-click Administrative Tools and then double-click Services.

If you have a Windows NT system, double-click Services.

4. In the Services window, right-click the StorHouse/Control Center Server service and click Stop.

The server may take a few minutes to stop, depending on how many users are logged on.

5. In the Service Control window, click Close when the service stops.
6. In the Services window, verify the Status appears blank for the StorHouse/Control Center Server service.
7. Close the Services window.
8. Close the Administrative Tools folder.



- ▼ To remove the current StorHouse/Control Center Server service

Note: Be sure you have stopped the StorHouse/Control Center Server service before removing it.

1. Log in to the computer that is running CC Server as an administrator or as a user with administrator privileges.
2. On the Windows task bar, click Start and then click Run.
3. In the Run dialog box, type `cmd` in the **Open** list and click OK.
4. At the MS-DOS prompt, type the following command to change the directory to the one where the CC Server files reside and press Enter:

```
chdir /d c:\Program Files\ControlCenter2\bin
```

5. At the MS-DOS prompt, type the following command to remove the Control Center Server software for version 2.0.x and press Enter:

```
ccserver2 -u
```

If you have StorHouse/Control Center Server version release 2.1.x, type this command and press Enter:

```
ccserver2 -uninstall
```

6. In the CCServer2 message, click OK to confirm the successful removal of the service.
7. Type `exit` at the MS-DOS prompt or close the command window.

- ▼ To install the new version of StorHouse/Control Center Server as a service

Follow the instructions for Steps 1 through 10 in “Installing the StorHouse/Control Center Server” on page 2-7.



▼ To install the new version of CCAdmin and the StorHouse/Control Center framework

1. Close all open programs on the computer where you are installing CCAdmin and the StorHouse/Control Center framework.
2. If necessary, insert the StorHouse/Control Center installation CD into the CD-ROM drive of the computer. The StorHouse/Control Center setup program starts automatically.
3. On the Welcome to Control Center setup menu, click CC Installation.
4. On the CC Installation setup menu, click CCAdmin.
5. In the Welcome dialog box, click Next.
6. In the Reinstall CC Framework dialog box, click Yes.
7. Click Next.
8. In the Start Installation dialog box, click Next. The StorHouse/Control Center framework installs.
9. In the Select Program Manager Group dialog box, make sure Control Center appears in the box at the top, then click Next.
10. In the Start Installation dialog box, click Next.
11. In the Desktop Shortcut dialog box, click Yes to create a shortcut for StorHouse/Control Center on your desktop.
12. In the Installation Complete dialog box, click Next. The program installs the CCAdmin module.
13. In the Installation Complete dialog box, click Finish.



14. On the Control Center setup menu, click Exit CC Installation.

15. On the Welcome to Control Center setup menu, click Exit Setup.

▼ To delete a StorHouse/Control Center Server desktop shortcut icon

1. On your desktop, right-click the CC Server icon and click Delete.

2. In the Confirm Shortcut Delete dialog box, click Yes.



Chapter 2 - Installing the Environment

C H A P T E R 3



StorHouse/Admin

This chapter explains the tasks you need to complete before using StorHouse/Admin. These tasks are:

- Installing the StorHouse/Admin software
- Configuring a data source for StorHouse/Admin
- Starting StorHouse/Admin

Installing StorHouse/Admin

The StorHouse/Control Center installation CD contains the StorHouse/Admin software and StorHouse/Control Center framework software.

If StorHouse/Admin is the first StorHouse/Control Center module you are installing on a computer, the installation program automatically installs the StorHouse/Control Center framework.



You can set up the StorHouse/Control Center framework and StorHouse/Admin for use on remote computers without reinstalling the software. See “Setting up remote computers to run StorHouse/Admin” on page 3-10.

Note: If you are installing StorHouse/Admin on a computer that already has the StorHouse/Control Center framework installed, you do not need to reinstall the StorHouse/Control Center framework. Skip to “Installing StorHouse/Admin without installing the StorHouse/Control Center framework” on page 3-5.

Installing StorHouse/Admin with the StorHouse/Control Center framework

The following procedure explains how to install StorHouse/Admin with the StorHouse/Control Center framework.

- ▼ To install StorHouse/Admin with the StorHouse/Control Center framework
 1. Close all open programs on the Windows computer where you are installing StorHouse/Admin.
 2. Insert the StorHouse/Control Center installation CD into the CD-ROM drive of the computer. The StorHouse/Control Center setup program starts automatically.
 3. On the Welcome to Control Center setup menu, click CC Installation.
 4. On the CC Installation setup menu, click StorHouse/Admin.
 5. In the Welcome dialog box, click Next.
 6. In the next dialog box, click Next.



7. In the Choose Destination Location dialog box, click Next. The location listed on this dialog box is where the installation program will install the StorHouse/Control Center framework and StorHouse/Admin files.

Note: The default location is C:\Program Files\ControlCenter2\Bin. You can click Browse to install the StorHouse/Control Center framework and StorHouse/Admin elsewhere, but FileTek recommends you accept the default location.

8. In the Select Program Manager Group dialog box, make sure Control Center appears in the box at the top, then click Next.
9. In the Start Installation dialog box, click Next. The program installs the StorHouse/Control Center framework.
10. In the Desktop Shortcut dialog box, click Yes to create a shortcut for StorHouse/Control Center on your desktop.
11. In the Installation Complete dialog box, click Next. The program installs the StorHouse/Admin module.
12. In the Installation Complete dialog box, click Finish.
13. On the Control Center setup menu, click Exit CC Installation.
14. On the Welcome to Control Center setup menu, click Exit Setup.
15. Close all remaining windows.
16. Proceed to “Configuring StorHouse/Admin” on page 3-6.



Installing StorHouse/Admin without installing the StorHouse/Control Center framework

If you are installing StorHouse/Admin on a computer where you have already installed another StorHouse/Control Center module (CCAdmin or StorHouse/Performance Monitor), you have also already installed the StorHouse/Control Center framework, and you do not need to reinstall it on that computer.

- ▼ To install StorHouse/Admin without installing the StorHouse/Control Center framework
- 1. Close all open programs on the computer where you are installing StorHouse/Admin.
- 2. If necessary, insert the StorHouse/Control Center installation CD into the CD-ROM drive of the computer. The StorHouse/Control Center setup program starts automatically.
- 3. On the Welcome to Control Center setup menu, click CC Installation.
- 4. On the CC Installation setup menu, click StorHouse/Admin.
- 5. In the Welcome dialog box, click Next.
- 6. In the Reinstall CC Framework dialog box, click No, then click Next.

Note: If you click Yes when asked if you want to reinstall the StorHouse/Control Center framework, the installation procedure will proceed as described in “Installing StorHouse/Admin with the StorHouse/Control Center framework” on page 3-2 (steps 6 through the end).



7. In the Start Installation dialog box, click Next. The program installs StorHouse/Admin.
8. In the Installation Complete dialog box, click Finish.
9. On the Control Center setup menu, click Exit CC Installation.
10. On the Welcome to Control Center setup menu, click Exit Setup.
11. Proceed to the next section “Configuring StorHouse/Admin.”

Configuring StorHouse/Admin

You need to configure StorHouse/Admin for use with a StorHouse/Control Center Server. If you have already configured a data source for another StorHouse/Control Center module on this computer, you can select that data source for StorHouse/Admin, or configure a new one.

A data source consists of a specific StorHouse system attached to a specific StorHouse/Control Center Server.

To define or select a data source, you must have already installed a StorHouse/Control Center Server and CCAdmin, and configured the server with CCAdmin, on this computer or on another computer that is accessible over your network.

The server must be running.



▼ To configure a data source for the StorHouse/Admin shortcut

1. Start StorHouse/Control Center by double-clicking its desktop icon.
2. On the Selection Bar on the left of the StorHouse/Control Center window, click the StorHouse/Admin shortcut icon.
3. In the Information dialog box that tells you there's no data source configured for the shortcut, click OK. The CC Client Configuration Wizard dialog box appears.
4. If you have installed another StorHouse/Control Center module on this computer and defined a data source for it, click a server from the **CC Server** list, then skip to Step 9. Otherwise, go to Step 5.

Note: The server you select must be running.

5. If you haven't installed another StorHouse/Control Center module on this computer and defined a data source for it, click New next to the **CC Server** box.
6. In the Define CC Server dialog box in the **CC server name** box, type a valid DNS name for a networked computer that has the StorHouse/Control Center Server software installed and running.
7. Accept the default value 8020 for the **TCP/IP port** box, or, if necessary, type another valid port number.
8. Click OK.
9. The CC Client Configuration Wizard dialog box should now have a server name in the **CC server** list and a StorHouse name in the **StorHouse system** box. Click Next.

Note: If you have configured more than one StorHouse system for this StorHouse/Control Center Server, you can choose another



system from the **StorHouse system** list. If the server is not running and configured with a StorHouse system, this list will be empty, and you will not be able to proceed.

10. In the next dialog box in the **Data source name** box, accept the default name or type a new name for the data source. This should be a descriptive name that will help you identify the data source.
11. Click Next.
12. In the next dialog box in the **Shortcut name** box, accept the default name or type a new name. This name will appear with the shortcut on the Selection Bar and will help you identify which data source you are connected to.
13. Click Finish.

Starting StorHouse/Admin

You start StorHouse/Admin by clicking a StorHouse/Admin shortcut on the StorHouse/Control Center Selection Bar. The shortcut identifies the StorHouse/Admin module and indicates which data source the module should use.

▼ To start StorHouse/Admin

1. On the Selection Bar, click the StorHouse/Admin shortcut you just created.
2. In the Login dialog box, type the identifier for the StorHouse account you want to use in the **Account ID** box.
3. In the **Password** box, type your account password.



4. Click Login.

You can now use StorHouse/Admin to manage the StorHouse system represented by the data source for this shortcut.



Setting up remote computers to run StorHouse/Admin

After you have installed the StorHouse/Control Center framework and StorHouse/Admin on one computer, you can set up remote computers to run StorHouse/Admin without having to install the StorHouse/Control Center framework and StorHouse/Admin on the remote computers.

To do this, you must first make the directory on the computer where you installed the StorHouse/Control Center framework and StorHouse/Admin accessible over a network to the computer(s) where you want to enable remote access. Then, on the remote computer, map a path to that directory.

▼ To set up a remote computer to run StorHouse/Admin

1. On the remote computer where you want to run StorHouse/Admin, right-click the My Computer icon on the desktop, and click Explore on the menu that appears.
2. On the Exploring - My Computer window, navigate to the shared drive and directory where the StorHouse/Control Center software is installed.
3. Double-click the file named InstSHAdmin.EXE.
4. Follow the screen prompts in the setup program.

The setup program creates a desktop shortcut for the StorHouse/Control Center framework on the remote computer. This shortcut points to the computer where you originally installed StorHouse/Control Center. To run StorHouse/Admin on the remote computer, double-click the desktop shortcut for StorHouse/Control Center, then click the StorHouse/Admin icon on the Selection Bar on the StorHouse/Control Center framework window.



Chapter 3 - StorHouse/Admin



StorHouse/Performance Monitor

This chapter explains the tasks you need to complete before using StorHouse/Performance Monitor. These tasks include:

- Setting StorHouse system parameters for collecting StorHouse/Performance Monitor data
- Installing the StorHouse/Performance Monitor software
- Configuring a data source, if necessary
- Setting StorHouse/Performance Monitor system preferences
- Copying StorHouse/Performance Monitor data files to your PC



Setting system parameters for collecting report data

StorHouse/Performance Monitor reports rely on data collected from one or more StorHouse systems. Before a StorHouse system will collect this data, you must set certain StorHouse system parameters.

Note: If you haven't installed StorHouse/Admin on this computer, refer to the *StorHouse Command Language Reference Manual* to set system parameters.

▼ To set system parameters with StorHouse/Admin

1. Start StorHouse/Admin.
2. On the System menu, click Configure.
3. In the System Configuration dialog box, find each of the following parameters and set them as described.
 - LOG_ACCOUNT: Set to the applicable StorHouse account name. This parameter sets the signon account used for storing StorHouse/Performance Monitor data files.
 - LOG_DEVICE: Set to true. This parameter enables logging of device information records.
 - LOG_FILE: Set to true. This parameter enables logging of file open and close information records.
 - LOG_FSET: Set to the applicable file set name. This parameter sets the file set name used for storing StorHouse/Performance Monitor data files.



- LOG_GROUP: Set to the applicable group name. This parameter sets the file access group used for storing StorHouse/Performance Monitor data files.
- LOG_INTERVAL: Set to 15 minutes. This parameter controls the interval for logging polled records.
- LOG_POLL: Set to true. This parameter enables logging of polled (interval) records.
- LOG_SYSTAT: Set to true. This parameter enables logging of system startup and shutdown records.
- LOG_VOLUME: Set to true. This parameter enables logging of volume dismount and movement information records.
- LOG_VSET: Set to the applicable volume set name. This parameter sets the volume set name used for storing StorHouse/Performance Monitor data files.
- SMVU_EOM_DELAY: Set to a value between 1 and 15. This parameter determines how many days past the end of the month StorHouse will continue to collect data for StorHouse/Performance Monitor data files in the previous month. This is necessary to accurately calculate some information, such as file opens.
- SMVU_LOGGING: Set to true. This parameter turns on the collection of StorHouse/Performance Monitor data.
- SMVU_PUT_CYCLE: Set to 24. This parameter specifies the interval in hours at which the StorHouse/Performance Monitor data files are written from the StorHouse system directories on magnetic disk to user files on level L. Changes to this value take effect during the next PUT cycle. By setting the value to 24, you ensure that StorHouse puts a new version of the most current



StorHouse/Performance Monitor data files in the user directories daily. This keeps your data current.

- `SMVU_VER_LIMIT`: Set to a value between 1 and 32,768. This parameter sets the number of versions of StorHouse/Performance Monitor data files kept in the system.

4. Click OK.

Installing StorHouse/ Performance Monitor

The StorHouse/Control Center installation CD contains the StorHouse/Performance Monitor software, the StorHouse/Control Center framework software, and the PM File Copy utility.

If StorHouse/Performance Monitor is the first StorHouse/Control Center module you are installing on a computer, the installation program automatically installs the StorHouse/Control Center framework.

You can set up the StorHouse/Control Center framework and StorHouse/Performance Monitor for use on remote computers without reinstalling the software. See “Setting up remote computers” on page 4-14.

Note: If you are installing StorHouse/Performance Monitor on a computer that already has the StorHouse/Control Center framework installed, you do not need to reinstall the framework. Skip to “Installing StorHouse/Performance Monitor without installing the StorHouse/Control Center framework” on page 4-6.



Installing StorHouse/Performance Monitor and the StorHouse/Control Center framework

This procedure explains how to install StorHouse/Performance Monitor and the StorHouse/Control Center framework.

- ▼ To install StorHouse/Performance Monitor and the StorHouse/Control Center framework
 1. Close all open programs on the Windows computer where you are installing StorHouse/Performance Monitor.
 2. Insert the StorHouse/Control Center installation CD into the CD-ROM drive of the computer. The StorHouse/Control Center setup program starts automatically.
 3. On the Welcome to Control Center setup menu, click CC Installation.
 4. On the CC Installation setup menu, click StorHouse/PM.
 5. In the Welcome dialog box, click Next.
 6. In the next dialog box, click Next.
 7. In the Choose Destination Location dialog box, click Next. The location listed on this dialog box is where the installation program will install the StorHouse/Control Center framework and StorHouse/Performance Monitor files.

Note: The default location is C:\Program Files\ControlCenter2\Bin. You can click Browse to install the StorHouse/Control Center framework and StorHouse/Performance Monitor files elsewhere, but FileTek recommends you accept the default location.



8. In the Select Program Manager Group dialog box, make sure Control Center appears in the box at the top, then click Next.
9. In the Start Installation dialog box, click Next. The program installs the StorHouse/Control Center framework.
10. In the Desktop Shortcut dialog box, click Yes to create a shortcut for StorHouse/Control Center on your desktop.
11. In the Start Installation dialog box, click Next. The program installs the StorHouse/Performance Monitor module.
12. In the Installation Complete dialog box, click Finish.
13. On the Control Center setup menu, click Exit CC Installation.
14. On the Welcome to Control Center setup menu, click Exit Setup.
15. Proceed to “Configuring a data source for StorHouse/Performance Monitor” on page 4-8.

Installing StorHouse/Performance Monitor without installing the StorHouse/Control Center framework

If you are installing StorHouse/Performance Monitor on a computer where you have already installed another StorHouse/Control Center module (CCAdmin or StorHouse/Admin), you have also already installed the StorHouse/Control Center framework, and you do not need to reinstall it on that computer.



▼ To install StorHouse/Performance Monitor without installing the StorHouse/Control Center framework

1. Close all open programs on the computer where you are installing StorHouse/Performance Monitor.
2. If necessary, insert the StorHouse/Control Center installation CD into the CD-ROM drive of the computer. The StorHouse/Control Center setup program starts automatically.
3. On the Welcome to Control Center setup menu, click CC Installation.
4. On the CC Installation setup menu, click StorHouse/PM.
5. In the Welcome dialog box, click Next.
6. In the Reinstall CC Framework dialog box, click No, then click Next.

Note: If you click Yes when asked if you want to reinstall the StorHouse/Control Center framework, the installation procedure will proceed as described in “Installing StorHouse/Performance Monitor and the StorHouse/Control Center framework” on page 4-5.
7. In the Start Installation dialog box, click Next. The program installs StorHouse/Performance Monitor.
8. In the Installation Complete dialog box, click Finish.
9. On the Control Center setup menu, click Exit CC Installation.
10. On the Welcome to Control Center setup menu, click Exit Setup.
11. Proceed to the next section “Configuring a data source for StorHouse/Performance Monitor.”



Configuring a data source for StorHouse/Performance Monitor

After you've installed StorHouse/Performance Monitor, you may configure a data source for it, although you don't have to if you plan to use StorHouse/Performance Monitor to monitor StorHouse performance without going through a StorHouse/Control Center Server.

If you have no other StorHouse/Control Center modules with data sources configured on this computer, the Data Source Configuration Wizard appears the first time you start StorHouse/Performance Monitor.

You can configure a data source, or you can choose not to configure a data source by clicking Next in each dialog box, leaving the boxes blank, accepting the defaults, and clicking Finish in the last dialog box.

If you have already configured a data source for another StorHouse/Control Center module on this computer, the Data Source Configuration Wizard doesn't appear when you start StorHouse/Performance Monitor, and you can skip to the "Setting preferences" section on page 4-9.

▼ To configure the data source

1. Start StorHouse/Control Center by double-clicking its desktop icon.
2. On the Selection Bar on the left of the StorHouse/Control Center window, click the StorHouse/PM shortcut icon.
3. In the CC Client Configuration Wizard dialog box, click New next to the **CC Server** box.



4. In the Define CC Server dialog box in the **CC server name** box, type a valid DNS name for a networked computer that has the StorHouse/Control Center Server software installed and running.
5. Accept the default value 8020 for the **TCP/IP port** box, or, if necessary, type another valid port number.
6. Click OK.
7. The CC Client Configuration Wizard dialog box should now have a server name in the **CC server** box and a StorHouse name in the **StorHouse system** box. Click Next.

Note: If you have configured more than one StorHouse system for this StorHouse/Control Center Server, you can choose another system from the **StorHouse system** list. If the server is not running and configured with a StorHouse system, this list will be empty, and you will not be able to proceed.

8. In the next dialog box in the **Data source name** box, accept the default name or type a new name for the data source. This should be a descriptive name that will help you identify the data source.
9. Click Finish and proceed to the next section “Setting Preferences.”

Setting preferences

Preferences determine default values for creating reports. You can define different preferences for each of your data sources and you can change these preferences at any time, even as you generate reports.



▼ To set system preferences

1. On the Selection Bar, click the StorHouse/PM shortcut to start the program.
2. From the Options menu, choose Preferences.
3. Set the Shift Defaults.

Shifts determine the hours and minutes of a reporting time period. You can set the beginning and ending times for three shifts and the beginning and ending time for a full day. Hours and minutes are two digits (24-hour clock) and must be in 15-minute intervals. For example: 13:00, 12:45, 08:30.

Note: The other preferences apply to a specific data source, but shift defaults apply to all data sources that you have defined.

4. In the **Data source** box, choose a data source from the list if necessary.

Unless you've added another data source, your only data source should appear already selected in the list.

5. In the **Data path** box, set the path to your data files.

This is the destination directory where you'll copy the StorHouse/Performance Monitor files with PM File Copy. This can be any directory on your hard drive or accessible network drive. If you haven't created this directory yet, type the path here and StorHouse/Performance Monitor will create it for you.

6. In the **Layout path** box, set the path to the directory that will contain your layout files.

This path tells StorHouse/Performance Monitor where to look for your stored layouts. If you haven't created a layout directory for the



data source, you can type a name here and StorHouse/Performance Monitor will create it for you. You can type the path manually or browse to the directory.

Note: A *layout* is a report definition template containing all the information in a report definition, including report type, style, summary level, and graph format. Using layouts, you can define reports once, save them as layouts, then use the layouts as often as you like with different data. For more information about layouts, refer to the StorHouse/Performance Monitor online help or to the *Getting Started with StorHouse/Performance Monitor* manual.

7. In the **File prefix** box, type a file prefix of four characters or fewer for this data source.

The file prefix determines how PM File Copy will name the files as it copies them to your PC environment. For instance, if you make your prefix Alph, PM File Copy will create files with names such as Alph9805.PDF.

Note: PM File Copy creates files with the format PPPPYMM.TTT, where PPPP is the prefix, YY is the year, MM is the month, and TTT is the file type—PDF, VDF, or VNF.

8. In the **Libraries** box, set the number of library devices for this data source.

This value affects the number of libraries that appear in certain reports. Libraries include both optical and tape libraries. The maximum number of libraries is 16.

9. In the **Devices** box, set the maximum number of devices available for any library.

For instance, if you have two libraries, and one library has two devices and the second library has four devices, you'd set this value to 4. This



value affects the number of devices that appear in certain reports. The maximum number of devices for any library is 16.

10. Click OK to save your preferences.

Copying data files to your PC

The StorHouse system collects data for StorHouse/Performance Monitor in files on the StorHouse system. However, the data is not available to StorHouse/Performance Monitor until you copy these files to your PC environment. You do this by using PM File Copy to copy the data files from your StorHouse system to your PC drive or to a drive that you can access over a network. Once you've copied the data files and set system preferences to tell StorHouse/Performance Monitor where to find them, you can begin creating reports.

StorHouse/Performance Monitor files

Before copying the files, it's important to understand a little about StorHouse/Performance Monitor data files. Basically the StorHouse system collects three types of files for StorHouse/Performance Monitor—performance data files (PDF), Volume Set (VSET) data files (VDF), and VSET name files (VNF). PDF files contain most of the data the program needs to create reports. VDF files contain most of the data the program needs for volume set reports. VNF files also contain information for volume set reports.

A typical StorHouse system collects multiple PDF/VDF pairs, one pair for each month. It also creates one VNF file. When you copy the files to your PC environment, you'll copy the VNF file and all the PDF and VDF files that you want, depending on the time range you're interested in.



File names

On the StorHouse system, file names have the format TTTYMM, where TTT is the type, YY is the year, and MM is the month. For instance, PDF9806 and VDF9806 represent respectively a PDF file collected for June of 1998 and a VDF file collected for June of 1998. During the copy procedure, PM File Copy will create new files with different, but similar, names that use the file prefix you set in your preferences, as well as the date and the file type.

For example, if your prefix were Alph and you copied PDF9806 and VDF9806, PM File Copy would copy the files to your PC environment as Alph9806.PDF and Alph9806.VDF. The Alph prefix identifies the data source (the StorHouse system) for the files, the numbers (9806) indicate the month during which the data was collected, and the file extension (PDF or VDF) indicates the file type.

- ▼ To copy data files from StorHouse to your PC or network
 1. Click the Applications icon on the Selection Bar.
 2. Click the PM File Copy icon.
 3. Select a data source for your files. This will identify the StorHouse system where the files reside. If you have only one data source, it will be selected automatically.
 4. Type your StorHouse account name and password.
 5. Under Selection Criteria, click a year in the **Year** box and a month in the **Month** box.
 6. Unless you want to use the User Log Browser or the User Log Report Generator features, make sure that **Include User Log Files** is not checked.
 7. Click Login.



8. At the bottom of the Log File Retrieval dialog box, select the files you want to copy. Make sure you select the VNF file (there should be only one) and all the PDF and VDF files that fall within the time range that interests you.

Note: If there are no files listed for copying, the StorHouse account that you're using probably does not have access privileges to the group specified by the LOG_GROUP system parameter. Notify your StorHouse system administrator if you need your account privileges changed.

9. Click Copy File.

10. Click Close.

Setting up remote computers

After you have installed the StorHouse/Control Center framework and StorHouse/Performance Monitor on one computer, you can set up remote computers to run StorHouse/Performance Monitor without having to install the StorHouse/Control Center framework and StorHouse/Performance Monitor on the remote computers.

To do this, you must first make the directory on the computer where you installed the StorHouse/Control Center framework and StorHouse/Performance Monitor accessible over a network to the computer(s) where you want to enable remote access. Then, on the remote computer, map a path to that directory.

- ▼ To set up a remote computer to run StorHouse/Performance Monitor



1. On the remote computer where you want to run StorHouse/Performance Monitor, right-click the My Computer icon on the desktop, and click Explore on the menu that appears.
2. On the Exploring - My Computer window, navigate to the shared drive and directory where the StorHouse/Control Center software is installed.
3. Double-click the file named InstPM2.EXE.
4. Follow the screen prompts in the setup program.

The setup program creates a desktop shortcut for the StorHouse/Control Center framework on the remote computer. This shortcut points to the computer where you originally installed StorHouse/Control Center. To run StorHouse/Performance Monitor on the remote computer, double-click the desktop shortcut for StorHouse/Control Center, then click the StorHouse/PM icon on the Selection Bar on the StorHouse/Control Center framework window.



Chapter 4 - StorHouse/Performance Monitor

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