



Emonitor[®]

Installing Emonitor Software with a Centura Single-User Database

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1

Introduction

This chapter introduces you to the Emonitor[®] software, offering an overview of the installation process.

Overview

Emonitor is used with a database server and client, offering access to the databases that store vibration, oil, image, and other types of data.

This installation guide offers information on the entire installation process, including database server installation, client installation, connection information, and database maintenance.

This installation guide is intended for first-time installations or updates from earlier versions of Emonitor software. It also contains reference information for later use.

Your satisfaction with the products we provide is our highest priority. Thank you for letting us help you with your machinery information needs.

Emonitor system requirements

- an Intel Pentium[™] 4, Pentium 4-compatible, or greater microprocessor
- 128 MB of RAM (more is better)
- a CD-ROM drive
- 20 GB of space available on the hard drive, or more depending on the size of your database
- VGA or SVGA graphics card
- 17 inch or larger computer monitor (screen)
- Microsoft[®] Windows[®] 2000 Pro service pack 4, Windows 2000 Server service pack 4, or Windows XP Pro service pack 2 operating system.

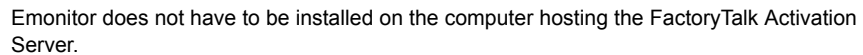
Database system requirements

The requirements for the computer running the Centura single-user database are the same as those for Emonitor (listed above).

Planning for the installation

Be sure to perform the following tasks before installing Emonitor for the first time.

If your system will use shared (concurrent) activation, you must select one computer to host the FactoryTalk Activation Server. All other computers hosting Emonitor must be able to communicate with the FactoryTalk Activation Server.



1. Insert the Emonitor Install CD-ROM into your computer.
2. After the Autorun screen appears, click **Read Documentation**. The list of available documentation appears in your default HTML browser.
3. Click **FactoryTalk Activation**, located under Entek Release Notes.

The new streamlined FactoryTalk[®] Activation process replaces the old parallel port security keys and the CD Activation Key. The FactoryTalk Activation is installed with Emonitor, and requires the Serial number and Product Key to activate your software. The Activation Certificate is included with your Emonitor Installation CD-ROM.

FactoryTalk Activation requires an activation file, also called a license file. Unless you are using a hardware dongle (usually a USB key), you must use the FactoryTalk Activation Tool to request one or more license files from the Rockwell software licensing website.

Disk space requirements vary depending on which components you need to install. The installation program shows you exactly how much space is needed for each component. For a guideline, Emonitor software with two data collector interfaces requires about 50 megabytes (MB) of disk space. Emonitor with all Online components requires an additional 18 MB of disk space, for a total of 73 MB needed on the client computer. There are additional disk space requirements depending on your database setup. Be sure to check with your database administrator about these requirements and backing up your database.

BE SURE YOU HAVE THE 32-BIT VERSION OF THE DATABASE SOFTWARE INSTALLED.

Before installing Emonitor, make sure the database server version is compatible. You might need to consult with your database administrator to verify which version of the database server you are using. The minimum Centura database version supported by Emonitor is SQLBase version 6.1.2. If you need to install a new version, ask your database administrator.

BE SURE YOU HAVE WINDOWS 2000/XP PRO INSTALLED.

Before installing Emonitor, you need to have one of these operating systems on your computer. Emonitor can not be installed on Windows 98 or Windows NT.

Updating or upgrading

If you are updating or upgrading from an earlier version of Emonitor, refer to the chapter titled *Updating from a previous version*.

If you are updating or upgrading from Emonitor for Windows (EFW) or IQ 2000 (earlier versions of the software prior to Odyssey 1.0), please contact Entek Customer Support for assistance. Additional steps are required to upgrade from the 16-bit to 32-bit software. See *Technical support services* on page 4 for contact information.

What to read next

To learn about new features and improvements in Emonitor, read the *Emonitor Product Release Notes*.

To get started quickly, read the *Emonitor Getting Results Guide*. The *Emonitor Getting Results Guide* introduces you to the software, and shows you how to use the online help included with the software.

Refer to the online help for detailed instructions on using all the functions of the software. The online help system also includes explanations for all the commands and controls. Just press F1 to access the online help at any time.

If you are using data collectors with a walk-around system, you may receive an additional *Data Collector User's Guide* for each of those interfaces. If you are using an online system, you may receive additional manuals for the hardware you use for data collection, and you receive the *Emonitor Online Getting Results Guide*.

Technical support services

If you are under warranty or have an active ESAFE contract, Rockwell Automation Technical Support provides a variety of technical support services for your products. In the United States you can reach the Technical Support Hotline by dialing 1-800-368-3547 Monday through Friday 8:00 a.m. – 7:00 p.m. eastern standard time. You can send a fax detailing your questions or comments 24 hours a day by dialing 513-576-4213. Please address the fax to the Technical Support department. You can also reach Technical Support from your computer.

- Send questions and comments to raenteksupport@ra.rockwell.com
- Visit our web site at <http://www.rockwellautomation.com/entek>

For support outside of the United States, please contact your local Rockwell Automation office. You can find worldwide contact information at <http://www.rockwellautomation.com>. If your local support representative is not available, please contact the U.S. Technical Support department.

When you call

When you call, you should be at your computer and prepared to give the following information:

- product serial number and product version number. The product serial numbers and version number can be found in the software by selecting **Help > About Emonitor**
- hardware you are using, including the XM[®] module firmware version (with the XM Emonitor Gateway)
- operating system plus service packs, and version of Internet Explorer (if any) installed
- exact wording of any errors or messages that appeared on your screen description of what happened and what you were doing when the problem occurred
- description of how you attempted to solve the problem

2

Installing Emonitor

This chapter guides you through the installation process for Emonitor. If you are updating from an existing version, refer to Chapter 4, *Updating from a previous version*.



When you upgrade from a previous version of the Emonitor software, the Process data type is replaced with the new Numeric data type for existing measurement definitions.

FactoryTalk Activation

Emonitor uses a new, streamlined process to activate your software using license files. As part of the Emonitor installation process, you must install the FactoryTalk Activation software. For more information on FactoryTalk Activation, refer to the FactoryTalk Activation file. To display the file, follow these steps:

1. Insert the Emonitor Install CD-ROM into your computer.
2. After the Autorun screen appears, click **Read Documentation**. The list of available documentation appears in your default HTML browser.
3. Click **FactoryTalk Activation**, located under Entek Release Notes.

Installing the Java Virtual Machine (with MAXIMO only)

If you are using the MAXIMO gateway with your Emonitor system, you must install the Java Virtual Machine.



You must install the Java Virtual Machine BEFORE running the Emonitor installation.

To install the Java Virtual Machine, follow these steps. This program must be installed on each client computer where Emonitor will communicate with MAXIMO.

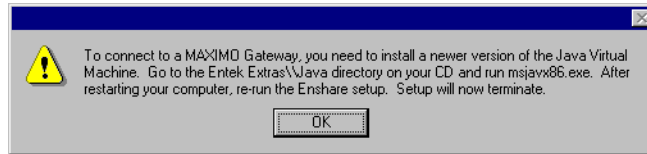
1. Put the Emonitor CD into the drive. When the Autorun screen appears, click **Browse CD**.

If the Autorun screen does not appear, start the Windows Explorer and navigate to your CD-ROM drive. Double-click `autorun.exe` on the Emonitor CD-ROM to run the install program.

2. Go to the `entek extras\Java` directory.
3. Double-click `MSJavx86.exe`.
4. Follow the instructions on screen. Click **Yes** for the first dialog, then click **Yes** for the license agreement. The installation program copies the correct files.

5. You must restart your computer at the end of the installation. After restarting, continue with *Installing Emonitor* on page 6.

The following dialog appears if you attempt to install Emonitor with the MAXIMO Gateway if you did not install the Java Virtual Machine before the Emonitor installation. The setup program will quit and you must install the Java Virtual Machine before trying again.



Installing Emonitor

This installation procedure is intended for first-time installations.

The installation program installs all Emonitor components by default. You can, however, customize your selections during the installation.



The CD Activation Key that was used to define the available features in previous versions has been replaced by FactoryTalk Activation described in *FactoryTalk Activation* on page 5.

Portable systems use walk-around data collectors for collecting data, and all Emonitor components can be installed on one computer. Online systems use networked systems that monitor and collect data, and some components can be installed on different computers to increase efficiency. You may also use a combination of portable and online systems, and use selected computers for each component.

This section walks you through the installation step-by-step with specific information available when needed. This section goes through a typical installation for a portable system.

Quit any running applications before starting the Emonitor installation program.

1. Insert the Emonitor Installation CD-ROM into the CD-ROM drive of your computer. It should auto-start and display the Autorun screen. If the Autorun screen does not appear, start the Windows Explorer and navigate to your CD-ROM drive. Double-click autorun.exe on the Emonitor CD-ROM to run the installation program.



If you are running the CD from another computer, you must map the CD to a drive on your local computer.



2. Click **Install FactoryTalk Activation** to install the FactoryTalk Activation software from the CD-ROM drive.
3. Install either the FactoryTalk Activation Server or the Client. In general, the following types of software activations are available:
 - local “node-locked” activation (locked to a stand-alone computer)
 - mobile “node-locked” activation (locked to a hardware dongle)
 - shared “concurrent” activation (locked to a networked activation server computer, but shared by client computers on the network). There are two types of shared activation: floating activation and borrowed activation, both checked out from a networked activation server.

If you are using concurrent (floating or borrowed) activation, install the FactoryTalk Activation Server on one computer. For all other computers hosting Emonitor, install the FactoryTalk Activation Client.



Emonitor does not have to be installed on the computer hosting the FactoryTalk Activation Server.

4. When finished, click Back to return to the main Autorun screen, and then click **Install Emonitor**. Follow the instructions on the screen.

5. Select your database type at the Database Selection dialog, and then click **Next**.
6. The Product Installation Availability List tells you which components will be installed by default. Your FactoryTalk Activation license file controls which features are available. Click **Next** to continue.
7. The Available Product Selections dialog allows you to select which components to install on the computer. Select the checkbox to select or clear each component. Click on the component name to read a description below. The installation program installs all components by default, so you can simply click **Next** if you want to install all components.



The XM Emonitor Gateway requires the RSLinx® software. You can install RSLinx later, after you install Emonitor (step 18 on page 10).

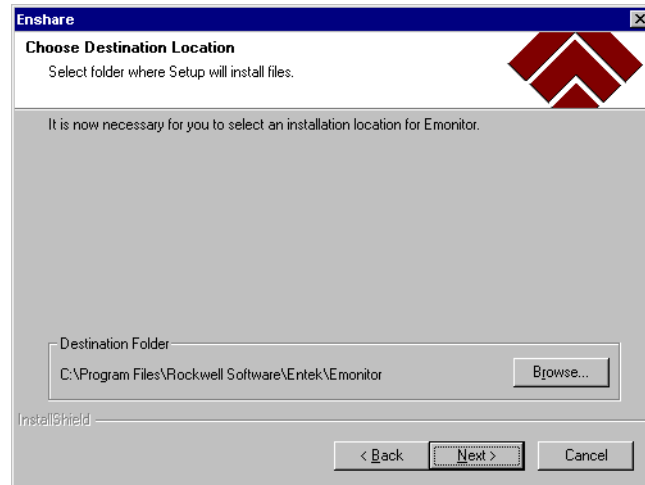
If you want to pick and choose different sub-components, highlight a component and click **Change**. Select the sub-components you want to install or deselect those you do not want to install. The data collector drivers are part of the sub-components list. You can scroll down to see more selections. For portable systems, the default settings should work well for your system. For an online system with a single-user database, the components for the Unload Station and Viewing Station must all be installed on the same computer. (See *Installing Online Components* on page 11.) Highlight **Online**, click **Change**, and select the following sub-components:

- Storage Limit Updater
- Hardware Setup
- Severity Updater
- Data Import Processor
- Unload Station Manager
- Intelligent Advisory Evaluator
- Calculated Points Updater

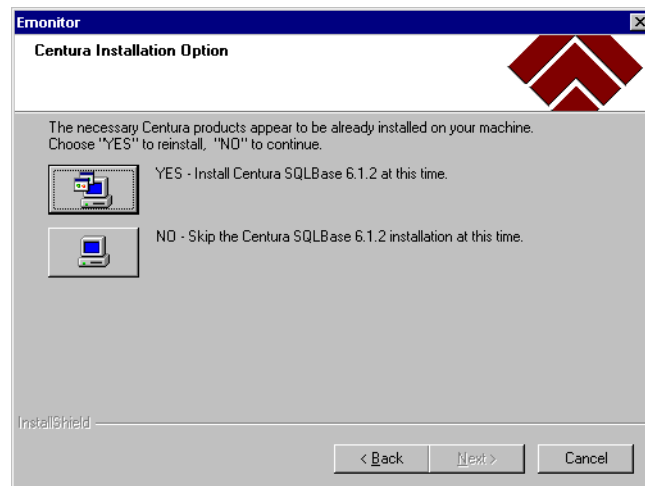
Click **Continue** on the Select Sub-components dialog, then **Next** to continue.

8. The Gateway Setup dialog allows you to select which CMMS/EAM gateway you want to install.
9. Some database types ask you to confirm or select your database version. Click **Next** to continue.
10. The next dialog shows the system requirements. If your system passes, click **Next**. See *Emonitor system requirements* on page 1 for more information.

11. Choose the directory where you want to install the selected Emonitor components. Click **Browse** to change the destination directory.



12. The Centura Installation Option screen appears next.



If you want to install the Centura components, click **Yes** and see *Installing the Centura SQLBase single-user software* on page 17. The following warning message appears:



DO NOT click **OK** on the message above. Wait for the Welcome to the SQLBase Desktop dialog to appear. You will click **OK** to close this warning message AFTER the Centura installation is complete.

When finished installing the Centura database software, click **OK** on the warning dialog, and then return to the Setup program. Continue with step 13 below.

13. Select the program folder on the Start menu for Emonitor, then click **Next**.
14. If you are installing the MAXIMO Gateway, Setup asks for the version of your MAXIMO system. This installs the Java classes required for MAXIMO. Setup does not overwrite existing Java classes for MAXIMO if they already exist on your computer. Select your version and click **Next**.
15. Click **Next** to accept the configuration. Setup begins copying files to the appropriate destinations.
16. The Setup Type dialog lets you choose additional options (add an Emonitor icon to the Windows desktop, add Emonitor components to the Startup folder so they run automatically when you start up your computer (for example, the Scheduler). We recommend that you accept the default selections in this dialog. Click **Next**.
17. The installation is nearly complete.
 - If you did not install the XM Emonitor Gateway with Emonitor, select **Yes, I want to restart my computer now** and click **Finish** to restart your computer. The Emonitor installation is now complete.
 - If you installed the XM Emonitor Gateway with Emonitor, select **No, I will restart my computer later** and click **Finish**. Go to the next step to install RSLinx®.
18. When the Autorun screen appears, click **Install RSLinx** and follow the directions that appear on the screen.

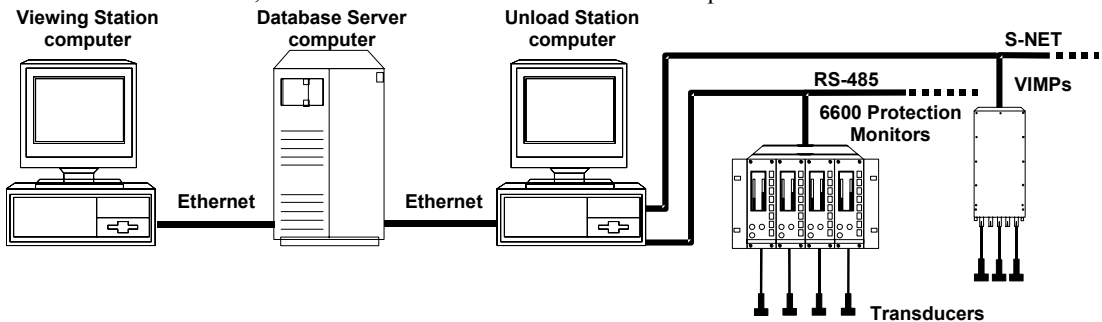
19. When the RSLinx installation is complete, exit the Installation program and restart your computer.

Installing Online Components



This section only applies to Emonitor Online systems. If you do not have Emonitor Online, you can skip this section and go to *Setting up Scheduler for online events* on page 11.

You can install all the components of the online system onto a single computer or you can use several computers for an online system. If you are using a multi-user database, you can designate certain computers as Unload Stations and Viewing Stations, as illustrated in this diagram. For Emonitor with a single-user database, the Viewing Station, Database Server, and Unload Station are all on the same computer.

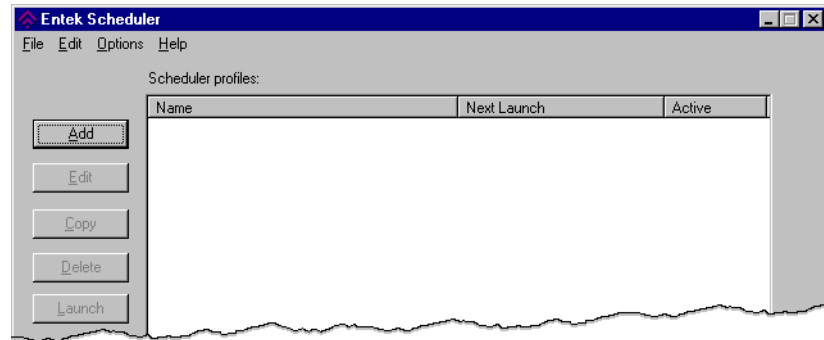


Setting up Scheduler for online events

The Scheduler program can be used to automate many data retrieval tasks. A task automated in Scheduler is called an *event*. A *profile* defines not only the event, but also when and how often the event should occur. By default, Scheduler starts when you start Windows. Scheduler must be running at all times if you want the scheduled events to occur. Events only occur when Scheduler is running.

These steps show you how to set up two different online profiles. The first is the **Online Import Event**, which looks for unload files (containing data from the data collection instruments) in the unload directory and sends the information to the Emonitor database. The second is the **Storage Limit Updater**, which allows you to limit data storage to specific parameters and specify a time during low database usage, saving disk space and time. Follow these steps to set up online profiles using Scheduler.

1. Start Scheduler and click **Add**.



Scheduler starts up when you restart Windows because it is added to your Startup directory. If it does not automatically, select **Start > Programs > Entek > Emonitor > Scheduler**.

2. On the Profile dialog, enter the **Profile Name**, such as Storage Limit Updater or Online Import Event. You can enter notes about the profile as well. Select **Enable profile for scheduling**. Click **Next** to continue.
3. On the Response dialog, select **Scheduled time/date/frequency**.
 - For the Storage Limit Updater, click **Next** and skip to step 7.
 - For the Online Import Event, select **File change notification** and click **Settings**.
4. Click **Add File**. Select the UD directory under your Entek Emonitor program directory. In the **File name** box, enter *.ulf. This tells Scheduler to look for unload files in the unload directory. Click **Open**.
5. The unload files show in the **Monitored Files** list. Click **OK** to continue.
6. Click **Next** on the Response dialog.
7. On the Events dialog, click **Add Event**.
8. Enter the **Executable file** and the **Command line** using the following guidelines, then click **OK**. The files below will be on your system drive although we have referred to drive C for simplicity.

For Online Import Event:

Executable file: C:\Program Files\Rockwell Software\Entek\
 Emonitor\did daemon.exe
 Command line: C:\Program Files\Rockwell Software\Entek\
 Emonitor\odonline.edi



For Storage Limit Updater:

Executable file: C:\Program Files\Rockwell Software\Entek\
Emonitor\stglimit.exe

Command line:

- /All - This informs the Storage Limit Updater to remove all measurement data, system event log data and alarm event log data outside the storage limits.
- /List "list name" - This informs the Storage Limit Updater to remove measurement data which are saved to a list with "list name" and are outside the storage limits. Note: "list name" is case sensitive.
- /Alarm - This informs the Storage Limit Updater to remove alarm event log data outside the storage limits.
- /System - This informs the Storage Limit Updater to remove system event log data outside the storage limits.

9. Click **Next** to continue.

10. On the Frequency dialog, set the **Date** and **Time** you want to launch the profile. Click **Finish**.

The profile is now added to Scheduler.



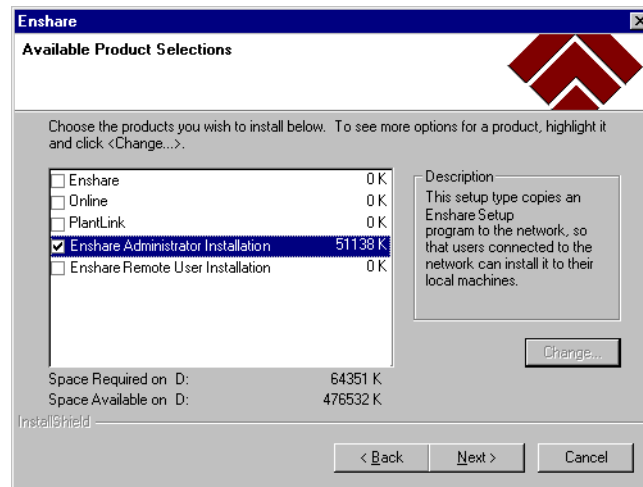
The executable file and command line information for the various Updater/Evaluator programs is also included in the online help for the Scheduler program.

Making the Emonitor installation available over a network

The Network Administration installation allows you to run the Emonitor installation from a networked computer. This lets you install Emonitor to any networked computer, so you don't have to carry the CD to different sites.

1. Insert the Emonitor Installation CD-ROM into the CD-ROM drive of a networked computer and perform the installation just as described in *Installing Emonitor* on page 6.

2. Select the check box next to Administrator Installation.



3. Click **Next** to continue through the rest of the installation.
4. At the **Destination Folder** choice, choose a shared directory to access the Setup.exe file later from other computers.
5. Finish the installation and restart the computer.
6. From a client computer, map a network drive to the location of the Destination Folder.



You must map the drive or the Emonitor installation program will not run.

7. You can now run Setup.exe from a client computer with a mapped drive to install Emonitor.

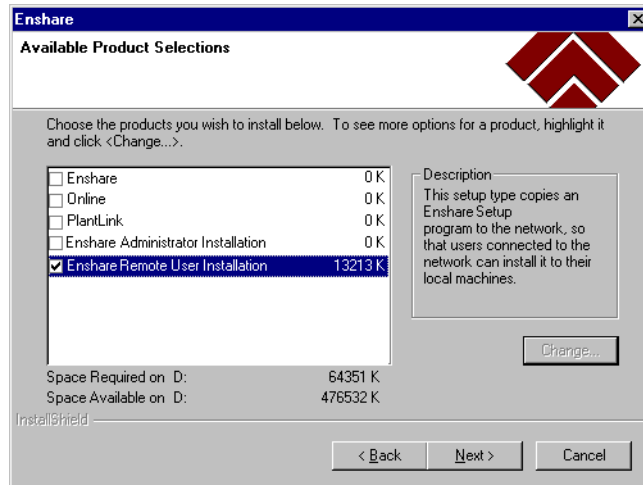
Installing on a remote computer

This installation allows you to run Emonitor using only minimum components on a networked computer. This lets you install the program files to a computer that may not have much hard drive space. The program runs on a separate computer, which may slow down the process.

To accomplish this, follow these steps.

1. Insert the Emonitor Installation CD-ROM into the CD-ROM drive of a networked computer and perform the installation just as described in *Installing Emonitor* on page 6.

2. Select the check box next to Remote User Installation.



3. Click **Next** to continue.
4. Click **Next** to continue through the rest of the installation. At the Destination Folder choice, choose the directory that contains the epm.exe program on the computer with the full installation.
5. Finish the installation and restart the computer when asked. You can now run Emonitor from a remote computer.

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3

Installing the database components

This chapter guides you through the database installation process.

Installing the Centura SQLBase single-user software

With the Centura single-user version of Emonitor, all of the database software (server and client) resides on the same machine. The Centura software is installed during the Emonitor installation process.

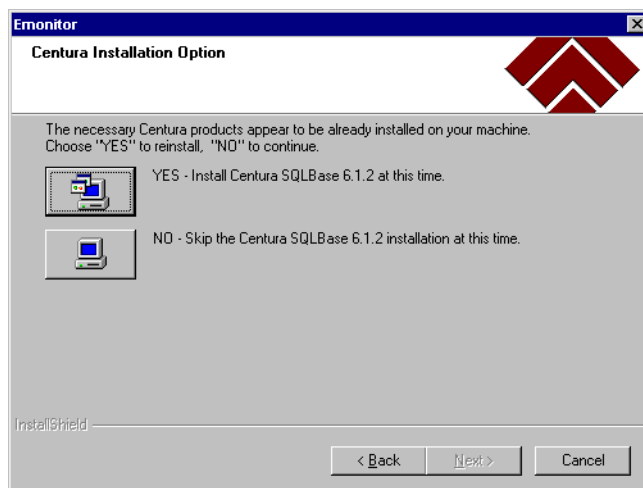
As always, if you are updating, back up your database directories to ensure that you have a backup copy (see *Backing up your data* on page 31). Then go to Chapter 4, *Updating from a previous version*.

Getting information from Centura's website

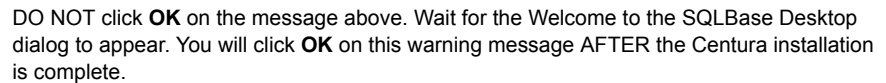
You can obtain helpful information from Centura's (Gupta's) website at <http://www.centurasoft.com/>.

Installing the Centura SQLBase software

The Centura SQLBase software is installed during the Emonitor installation process. If you already have the Centura SQLBase software 6.1.2 or later installed, you do not have to perform these steps. If you chose **Yes** on the screen below during the Emonitor installation (page 9), follow the steps below to install the Centura SQLBase single-user software.

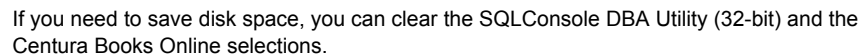


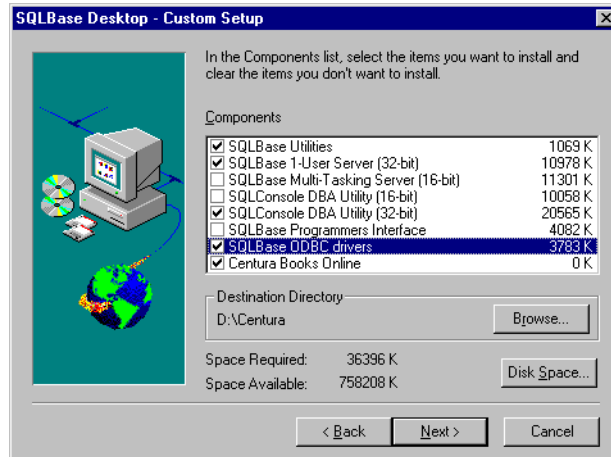
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Click **Next** on the Welcome dialog.

- SQLBase Utilities
- SQLBase 1-User Server (32-bit)
- SQLConsole DBA Utility (32-bit)
- SQLBase ODBC drivers
- Centura Books Online





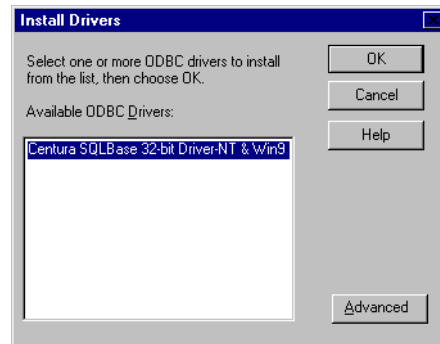
6. After copying the database files, choose the Start Menu Program Folder in which to add the Centura software. Click **Next** to continue.
7. Next, the program installs the database drivers. You must select the **Centura SQLBase 32-bit Driver-NT & Win95** driver, and then click **OK**.



If you do not select the Centura SQLBase 32-bit Driver-NT & Win95 driver it will not install.



If you get an Acrobat Reader Installation dialog, you chose to install the Centura Books Online. We recommend that you do not install the version of Acrobat Reader At this time. Instead, use select **Install Acrobat Reader** from the main Emonitor installation menu.



Click **Exit** at the SQL.INI Editor in the next step. Do not do anything else in the SQL.INI dialog.

8. Click **Exit** at the SQL.INI Editor. The Emonitor installation program sets up the INI file for you.



9. Click **Yes** to allow the Setup program to change your path in the Autoexec.bat file.



Select **No** at the **Restart Windows** dialog in the next step. Do not do anything else in the Restart Windows dialog.

10. Select **No** at the **Restart Windows** dialog.



Click **OK** on the warning dialog shown below to close the dialog.



If you ran this installation from within the Emonitor installation, return to step 13 on page 10.

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4

Updating from a previous version

This chapter guides you through the process of updating from an earlier version of the Emonitor software.



If you have a version of Emonitor earlier than Odyssey version 1.0 (the software was called Emonitor for Windows - EFW - at that time), please contact Entek Customer Support for assistance. You must perform several additional steps to upgrade to the 32-bit Centura database software. (see *Technical support services* on page 4)



When you upgrade from a previous version of the Emonitor software, the Process data type is replaced with the new Numeric data type for existing measurement definitions.

Running the update program

Use the installation program to update your Emonitor software.



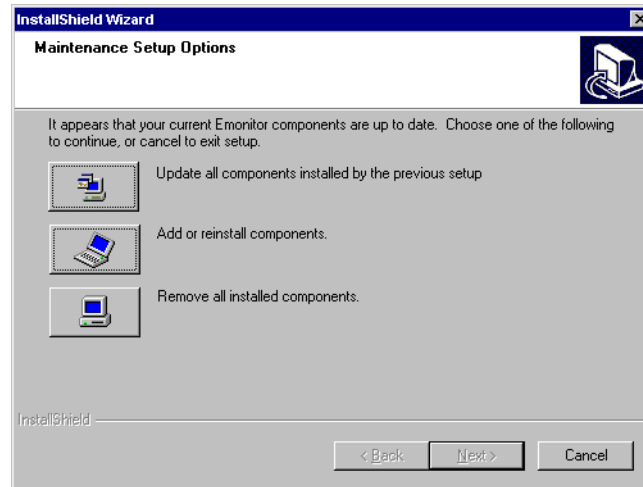
Make sure you follow these steps before updating.

1. Unload all data collectors before updating. You will not be able to unload them after the update.
2. Back up your databases before updating to the latest version (see *Backing up your data* on page 31).
1. Insert the Emonitor Installation CD-ROM into the CD-ROM drive of your computer. Click **Install FactoryTalk Activation** to install the new FactoryTalk Activation software from the CD-ROM drive.

Emonitor uses a new, streamlined process to activate your software using license files. As part of the Emonitor installation process, you must install the FactoryTalk Activation software. For more information on FactoryTalk Activation, refer to the FactoryTalk Activation file. To display the file, follow these steps:

 - a. Insert the Emonitor Install CD-ROM into your computer.
 - b. After the Autorun screen appears, click **Read Documentation**. The list of available documentation appears in your default HTML browser.
 - c. Click **FactoryTalk Activation**, located under Entek Release Notes.
2. When finished, click **Back** to return to the main Autorun screen, and then click **Install Emonitor**. Follow the instructions on the screen.

3. The installation program detects that installed Emonitor components are not up to date. Click one of the three options.



- **Update all components installed by the previous setup.** Select this option to install the updated version with the same configuration as your existing installation. The installation program has all the information it needs, so it updates the software when you click the button. You can skip to step 12 on page 25. If you see a message about a read-only file having been detected, click **Yes** to continue.
 - **Add or reinstall components.** Select this option if you want to upgrade with different components than your original installation. Continue with step 4 below.
 - **Remove all installed components.** Select this option to remove Emonitor software from your computer. Follow the instructions that appear on the screen. You will not be able to run Emonitor after you remove the software; however, the Emonitor database and other data files remain on your computer.
4. Select your database type at the Database Selection dialog, and then click **Next**.
 5. The Product Installation Availability List tells you which components will be installed by default. Your FactoryTalk Activation license file controls which features are available. Click **Next** to continue.
 6. The next dialog allows you to select which components to install on the computer. Select the checkbox to select or clear each component. Click on the component name to read a description below. All components are installed by default, so you can

simply click **Next** if you want to install all components. Click **Change** if you want to pick and choose different components.

7. Choosing **Change** opens a dialog that allows you to select sub-components. Select the sub-components you want to install, or deselect those you do not want to install. The data collector drivers are part of the sub-components list. You can scroll down to see more selections. For portable systems, the default settings should work well for your system.
8. The next dialog shows the system requirements. If your system passes, click **Next**.
9. Choose the directory where you want to install the selected components. Click **Browse** to change the installation directory.



You can choose a different directory in which to install the selected Emonitor components, but the previous installation will no longer work. The installation program will not update your previous installation or install a new database.

10. Click **Next** to add the Entek folder to your Start menu.
11. Click **Next** to accept the configuration. Setup begins copying files to the appropriate destinations.
12. The installation is nearly complete.
 - If you did not install the XM Emonitor Gateway with Emonitor, select **Yes, I want to restart my computer now** and click **Finish** to restart your computer. The Emonitor installation is now complete.
 - If you installed the XM Emonitor Gateway with Emonitor, select **No, I will restart my computer later** and click **Finish**. Go to the next step to install RSLinx® if it is not already on your computer.
13. When the Autorun screen appears, click **Install RSLinx** and follow the directions that appear on the screen.
14. When the RSLinx installation is complete, exit the Installation program and restart your computer.

Restructuring the database

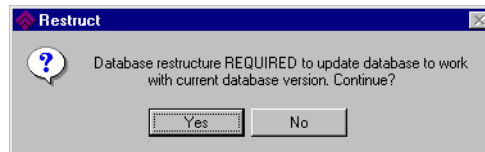
After any update, you must restructure the database. This adds necessary data and structure information to your current database, allowing you to run the new version of the

program. When you start Emonitor, the restructure program automatically starts if it is needed. Follow these steps the first time you start Emonitor after performing an update.

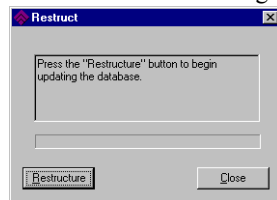


Make sure you follow these steps before restructuring your database.

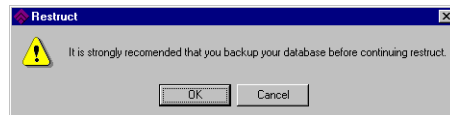
1. Back up your databases before updating to the latest version (see *Backing up your data* on page 31).
2. Make sure no users are connected to the database.
1. Start your Emonitor software from the **Start** menu (**Start > Programs > Entek > Emonitor**). Click **Yes** to update your database. The restructure program automatically starts.



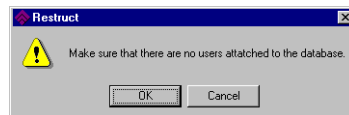
2. Click **Restructure** to begin the update process.



3. Make sure you have backed up your database, then click **OK** to continue.

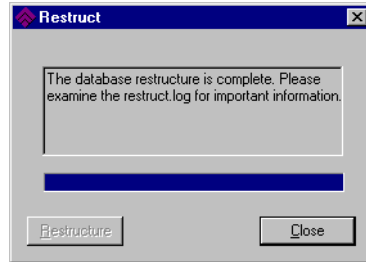


4. Make sure that no users are still attached to the database, then click **OK** to continue.



Allow plenty of time to restructure your database. It may appear to stop or be locked up, and stay at 99% for a long time. Do not try to restart your computer during restructure—just be patient and let the program finish.

5. When the process is finished, click **Close**. You can now run the new version of Emonitor.



The amount of time needed for this process depends on your processor speed and the amount of RAM available.

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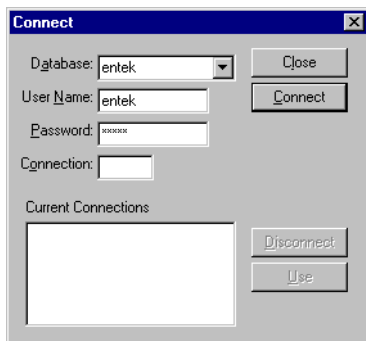
Database maintenance

This chapter describes specific procedures for maintaining your database. These steps will help your database speed and efficiency. Note that the procedures in this document apply to Emonitor installations using the single-user or network (multi-user) versions of the Centura database software.

Using SQLTalk Interactive

SQLTalk is the Centura program that allows you to communicate directly with your database. Some of the procedures in this document require that you use SQLTalk.

1. Make sure that all users are logged out of Emonitor, and that no one is accessing the database with SQLTalk or another utility.
2. From the **Start** menu, point to **Programs**, then to **Centura**, then click **SQLTalk Interactive SQL 32bit**.
3. From the **Session** menu, click **Connect**, or press F2. The **Connect** dialog appears.



4. Enter the database name, username, and password for your database. For the Entek database, the default user name is ENTEK, and the default password is EUSER. For the EConfig database, the default username is also ENTEK, and the default password is also EUSER.
5. Click **Connect** to connect to the database. Your database name should appear in the **Current Connections** box.
6. Select the database in the **Current Connections** box and click **Use**, or simply click **Close**.

Checking the integrity of your database

A database is a file, or set of files, stored on your computer. In rare instances, a database can be damaged or corrupted. If this happens, you may not know about it until you attempt to recall information from the damaged part of the database. In some cases, you may not discover the damage for days, weeks, or months.

For this reason, it is important that you regularly check the integrity of your databases, for both the Entek and the Econfig files.

1. If you are using a network version of Emonitor, make sure that all users are logged out of Emonitor, and that no one is accessing the database with SQLTalk or another utility.

2. Start SQLTalk as described in *Using SQLTalk Interactive* on page 29.

3. In the Input Window (the top pane), type the following, including the semicolon:

```
check database;
```

4. Press Shift+F2 to execute the command, or click **Execute Command** from the **Session** menu. If the check is successful, SQLTalk displays the message:

```
DATABASE CHECKED
```

If any other message appears, your database may be corrupt. Contact Entek Customer Support immediately for assistance. Run this command on both the Entek and the Econfig databases.

Speeding up database access

You can also use SQLTalk Interactive to speed up database access by optimizing the database. To do so, follow these steps.

1. If you are using a network version of Emonitor, make sure that all users are logged out of Emonitor, and that no one is accessing the database with SQLTalk or another utility.

1. Start SQLTalk and connect to the Entek database. See *Using SQLTalk Interactive* on page 29.

1. In the Input Window (the top pane), type the following, including the semicolon:

```
update statistics on database;
```

2. Press Shift+F2 to execute the command, or click **Execute Command** from the **Session** menu. If the check is successful, SQLTalk displays a message similar to this one depending on the number of rows in your database:

```
STATISTICS UPDATED ON 13,443 ROWS
```

This command may take a while depending on the size of your database, so please be patient. Run this command on both the Entek and the Econfig databases.

Backing up your data

How often should I back up my data?

You should back up as often as you can afford to lose data. If you can lose a week's worth of data, back up once a week. If you need to have all of your data from each day, back up daily.

What files and directories do I need to back up?



The name of the company that makes the SQLTalk database has changed from Centura to Gupta. The directory name, however, remains Centura. Thus, the old name, Centura, is still used when referring to the directory and in these installation instructions.

The Centura database directories should be backed up. These database directories contain the individual Centura database files (.dbs). Typically the database directories are stored in subdirectories of the main Centura directory. Simply copy the directories and files within the directories.

For example, to back up the Entek database, you would copy the Entek directory which contains the entek.dbs file.

You also need to back up the Econfig directory containing the Econfig database.

What is the correct back up procedure for Centura databases?

1. Shut down Emonitor.
2. From the **Start** menu, point to **Programs**, then to **Centura**, then click **SQLTalk Interactive SQL 32bit**.
3. From the **Session** menu, click **Connect**, or press F2.
4. Enter the database name, username and password for your database. The default user name is ENTEK, and the default password is EUSER.
5. Click **Connect**. Your database name should appear in the **Current Connections** box.
6. Click **Close** to close the **Connect** dialog.
7. In the Input Window (top pane), type the following, including the semicolon:
`check database;`

- DATABASE CHECKED

9. Type the following in the Input window (top pane), including the semicolon:

10. Press Shift+F2 to execute the command. After SQLTalk executes the command, it displays a message similar to this one depending on the number of rows in your database:

11. Repeat this command on the Econfig database. After the Update Statistics command is finished, select **File > Exit** to exit SQLTalk.

- ## Using the correct storage media for your data

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Adding a new database

You may want to add another database to your system. You can use one Econfig database for your configuration data and have multiple other databases for storing data similar to the Entek database.

1. Create a directory in your Centura folder with the name for your database. You have to have a separate directory for each database.
2. Copy entek.dbs from the product directory (*odyenshare*) on the Emonitor CD-ROM into the new directory. The product directories are located in the *Entek Extras* folder on the CD-ROM.
3. Right-click on the entek.dbs file and click **Properties**. Change the Attributes by clearing the **Read-only** checkbox. Click **OK**.
4. Rename the entek.dbs file to the name of the directory.
5. Start the **SQLEdit Configuration Utility** by selecting it from **Start > Programs > Centura**.
6. Choose the correct operating system under **Environment**, then choose **Server** under **Component** and click **Configure**.
7. Select the correct number of users in the dialog. Click **OK**.
8. You may see a file dialog if you have your preferences set to look for the INI file. Select your INI file and click **OK** to continue.
9. Click **Setup** to list the available databases.
10. Click **Scan For Databases** to install the database. Click **Validate Databases** to confirm that they exist.
11. Click **OK**, then click **OK** again to get to the main utility window.
12. Click **Exit** to close the SQLEdit Configuration Utility.

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Troubleshooting

This chapter offers troubleshooting information for Emonitor installations.

Troubleshooting database connections

Should I set up the SQL.INI during the installation process?

Always click **Exit** on the SQL.INI Editor dialog during the installation process. (See step 12 on page 13.) The installation program should set it up correctly for you. If you didn't click **Exit**, refer to your Centura (Gupta) documentation to set up the SQL.INI file, or re-run the Emonitor installation program.

What version ODBC driver should I use?

You have to use the 6.1.2 ODBC driver; the previous version does not work.

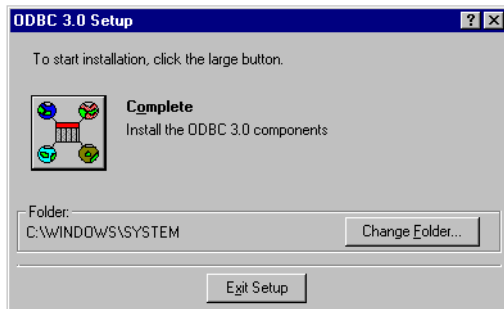
What is this error message about a DLL conflict when I start the program?



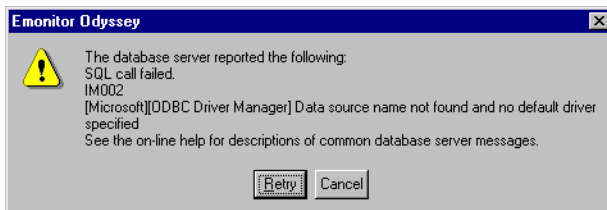
ODBC, the database driver, gives an error message when certain files are newer than others. If you get an error message about a DLL conflict, you can click **OK** and run Emonitor anyway without any problem. However, you probably want to fix it.

You can update your files using the setup file in the Entek Extras directory on your Emonitor CD-ROM (\Entek Extras\ODBC update\), and this message will not appear. Run the odbcdm.exe file. It will decompress the needed files into the directory you choose, which can be a temporary directory. After the files have been expanded, go to the directory and run the setup.exe program. Follow the instructions on screen. Choose the

Minimum installation, which installs the drivers that match the version number. This resolves the error.

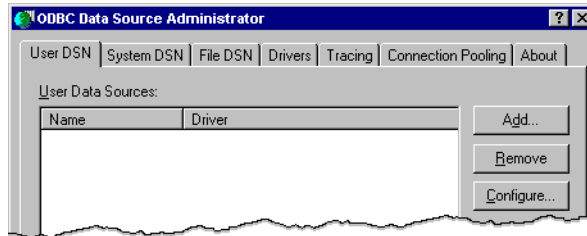


Someone else installed Emonitor on my computer and now I can't run it.

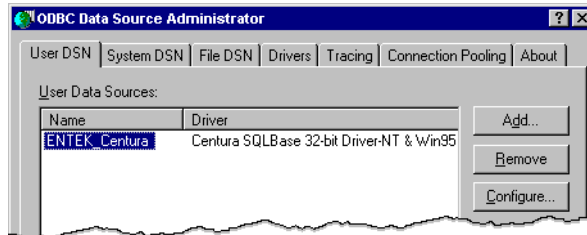


You must edit the registry on all Windows 2000, and XP Workstations if the person who installed the program is not the same as the end user(s). The install program enters information in the registry that points to the database for that installing user only. Any other users of the database must also have the settings in their registry point to the correct place. If you get the error message shown here, you are a different user than the person who installed Emonitor, and the registry reflects this.

You can verify that you do indeed have this error. From the **Start** menu, point to **Settings**, click **Control Panel**, and open **Administrative Tools**. Double-click the **Data Sources (ODBC)** icon. The following screen appears. If your registry does not point to the correct database, you will not find an entry for **ENTEK_Centura Centura SQLBase 32-bit Driver-NT & Win95** under **User Data Sources** on the **User DSN** tab.



To fix this error, simply run the file `odbc.reg`, found in your Emonitor program directory. The default program directory is `\Program Files\Rockwell Software\Entek\Emonitor` on the system drive (generally C:). Double-click the file to run it from Windows Explorer. If the registry update is successful, the **User Data Sources** list discussed above will include the following new entry.



Why am I getting a configuration file error?



There could be several reasons for this type of error. Here is a list of potential fixes.

- Make sure that you have only one copy of `SQL.INI` on your computer.
- Make sure that the `SQL.INI` file has not been renamed or deleted.
- Make sure that your `PATH` environment variable points to the Centura directory.
- If you log in to your computer, make sure that you used the correct login name and password. A different user's login name may not contain the correct environment variables, so the `PATH` might not point to the correct location of the `SQL.INI` file.

Why can't I connect to the database?

If you cannot connect to databases after installing, you may need to scan and validate your databases. Also, if you added a new database you must scan and validate before connecting. To do so, from the **Start** menu, point to **Programs**, then to **Centura**, and then click **SQLEdit Configuration Utility**.

Select your operating system, choose **Server**, and then click **Configure**. Select **Single User** or the number of users for your server, and click **OK**. If you see a file selection dialog, select your .INI file. Click the **Setup** button. Click **Scan For Databases**, then click **Validate Databases**. The utility should find your databases. Exit the utility and run Emonitor again. See *Adding a new database* on page 33 for more information.

If you still can't connect to the database, check the SQL.INI file to make sure the line that says DBDIR=C:\Centura actually points to the installed location of the Centura database.

Why can't it find the ERROR.SQL file?



If you get an error like this, check your path by typing `PATH` at an MS-DOS prompt. If your path does not contain the Centura program directory, Emonitor cannot find the needed database files. Also, check to make sure `error.sql` is in the Centura directory and has not been renamed.

My other Centura-based programs cannot find the SQL.INI file.

The Emonitor installation program renames any SQL.INI, MESSAGE.SQL, or ERROR.SQL file that it finds in your path. If other Centura programs are affected by this, you must rename these other files before attempting to run the other Centura-based program.



Troubleshooting during the installation

Client-server applications like Emonitor can be complicated. This section is provided to give you a guide if things don't go quite right the first time.

Do I have to install certain online components to certain computers?

If you are using a multi-user version of Centura, you can install any component of an online system to any computer in the system, whether it's an Unload Station or a Viewing Station or a combination of the two. The single-user version of Centura must have all components on the same computer.

Why do Unload Station Manager and Scheduler start when I restart my computer?

When you restart your computer after installing, Unload Station Manager and Scheduler automatically start because they are in your Startup folder. To remove an item from your Startup folder, point to **Start > Programs > Startup**. Right-click the item you want to remove and select **Delete**. This removes the item from your Startup folder, but not from your computer.

Why can't I run the Emonitor installation program on Windows 2000, or XP?

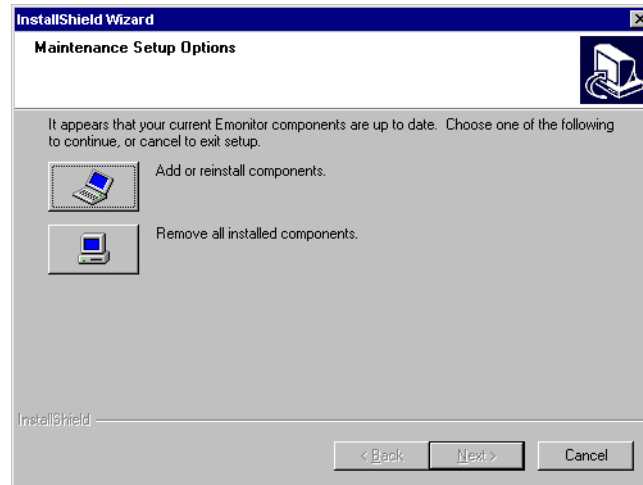
In order to install the program on a computer running Windows 2000 or XP, you have to have administrator rights. You might have to ask your computer staff to give you administrator rights in order to install Emonitor.

What happens if the computer gets turned off in the middle of an installation?

If your computer crashes or gets turned off in the middle of the installation, the uninstall procedure will not work. Use these steps to complete the installation.

1. Remove the Emonitor CD-ROM and reboot your computer.
2. After the computer reboots, insert the Emonitor CD-ROM back in the CD-ROM drive.

3. Begin the installation process again. When you see a dialog similar to the following, select **Add or reinstall components**.



4. Follow the installation process as described in Chapter 3, *Installing Emonitor*.

Troubleshooting FactoryTalk Activation

If you experience any problems with the FactoryTalk Activation, refer to the FactoryTalk Activation online help file, installed when you installed FactoryTalk Activation. Click the Windows **Start** button, then select **Programs > Rockwell Software > FactoryTalk Activation > FactoryTalk Activation Help**.

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