



P2000AE

Security Management System

Server/Workstation

Software Installation Manual

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Software Installation Manual

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This equipment must not be modified for any reason and it must be installed as stated in the Manufacturer's instruction.

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INTRODUCTION

After your hardware has been installed and all cables are connected, use the information in this manual to configure your server and install the P2000AE Security Management System software version 4.1.

When you purchase a complete P2000AE Security Management System from Johnson Controls, the server hardware and software are configured and installed at the factory. Instructions in this manual are provided for the P2000AE software only packages, and for those occasions when the software must be reloaded in the field.

The P2000 version 4.1 software installation must be a “clean installation,” not an upgrade.

NOTE

Throughout this manual the terms P2000AE and P2000 are used interchangeably.

CHAPTER SUMMARIES

The manual is divided into the following chapters:

- **Chapter 1: Introduction**, describes P2000 packages, server and workstation requirements, and manual conventions.
- **Chapter 2: Server Setup**, describes how to configure your server prior to installing the P2000 prerequisites and software.
- **Chapter 3: Software Installation**, provides step-by-step instructions for installing the P2000 prerequisites and software on the server and on the workstation.

MANUAL CONVENTIONS

The following items are used throughout this manual to indicate special circumstances, exceptions, important points regarding the equipment or personal safety, or to emphasize a particular point.

NOTE

Notes indicate important points or exceptions to the information provided in the main text.



Cautions remind you that certain actions, if not performed exactly as stated, can cause damage to equipment, security problems, or cause the system to operate incorrectly due to errors in system setup or programming.

NOTE ON OTHER MANUFACTURER'S DOCUMENTATION

*Johnson Controls does not duplicate documentation of other equipment manufacturers. When necessary, as in this installation procedure, Johnson Controls provides documentation that supplements that of other manufacturers. When unpacking your equipment, **keep all original manufacturer documentation for future reference.***

TECHNICAL SUPPORT

Technical assistance is provided to Johnson Controls® authorized dealer representatives from 5 a.m. PT (Pacific Time) to 5 p.m. PT, Monday through Friday. System users can get answers to operator questions by calling the nearest district sales/service office.

P2000 PACKAGES

This manual provides P2000 software installation instructions for system servers and workstations, and is applicable to the P2000 Security Management Systems Packages as described in the following sections.

NOTE

These packages do not include P2000 software options.

P2000 Server Package

When purchased from Johnson Controls, your HP server's hardware and software are configured and installed at the factory. The following items are included as part of this package:

- Server Hardware
- HP SmartStart CD

- Microsoft® Windows Server 2003 CD
- Microsoft SQL Server 2005 CDs
- P2000 Installation CDs (prerequisites and software), version 4.1
- P2000 manuals, including the *P2000 Server/Workstation Software Installation Manual*, the *P2000 Software User Manual*, the hardware installation manual for the server, and others, depending on the features included in the software release and the options you have purchased.

P2000 Software Only Package

This software package is intended to be installed by the end user. The end user must supply Microsoft Windows Server 2003 operating system and the Microsoft SQL Server 2005 as the database engine. Complete instructions for installing these items with settings specific to operating P2000 are provided in this document.

The following items are included as part of this package:

- P2000 Installation CDs (prerequisites and software), version 4.1
- P2000 manuals, including the *P2000 Server/Workstation Software Installation Manual*, the *P2000 Software User Manual*, and others, depending on the features included in the software release and the options you have purchased.

The same P2000 Software CD is used to install the software on the P2000 server and at the P2000 workstations.

P2000 Workstation Package

The complete P2000 workstation package includes an HP computer, installation and user documentation, and comes preloaded with the following software:

- Microsoft Windows XP operating system
- P2000 Installation CDs (prerequisites and software), version 4.1

In this configuration, the end user is not required to install software on the workstation; however, they may be required to change the system Server name, if other than “P2000.” (See “Workstations Supplied by Johnson Controls” on page 3-25 for details.) This document provides complete installation instructions for P2000 for those cases where the software must be completely reloaded in the field.

P2000 INSTALLATION CDs

Depending on the package you have purchased, some or all of the following CDs will be included:

- **P2000 Microsoft Server 2003 Prerequisites**

Use this CD to install the P2000 prerequisites on a computer (server or workstation) using the Windows Server 2003 operating system.

- **P2000 Microsoft XP Professional Prerequisites**

Use this CD to install the P2000 prerequisites on a workstation using the Windows XP operating system.

- **P2000 Server Applications and Services**

Use this CD to install the P2000 the following:

- P2000 database
- P2000 server software
- System Configuration Tool (SCT)
- BACnet software*
- P2000 Metasys System Extended Architecture (MSEA) interface*
- P2000 Remote Redundancy with NSI*
- P2000 Thin Client*

- **P2000 Workstation Client Applications**

Use this CD to install the following:

- P2000 workstation software
- BACnet components necessary for M3/M5 workstations*

* For instructions on installing these components refer to their respective manuals.

SYSTEM CONFIGURATION

Software Requirements

The P2000 Security Management System operates in a client-server architecture. You must install P2000 software on the system server prior to installing it on the system workstations.

P2000 Server

The P2000 server must be loaded with the following software:

- Microsoft® Windows Server 2003 operating system
- Microsoft SQL Server 2005 - Standard Edition
- P2000 Prerequisites, version 4.1
- P2000 Database, version 4.1
- P2000 Server Software, version 4.1
- System Configuration Tool (SCT), version 2.0.2051.56
- P2000 Workstation Software, version 4.1

P2000 Workstation

The P2000 workstations use:

- Microsoft Windows XP operating system
- P2000 Prerequisites, version 4.1
- P2000 Workstation Software, version 4.1

Hardware Requirements

The following table and sections show the minimum hardware requirements for the server, workstation, and panel firmware when running the P2000.

P2000 Server

There are three possible systems based on the number of readers, badges, and workstations that the server will be supporting. Should either the readers, badges, or workstations exceed the number specified, it will require the user to move to the next higher system. For instance, System 1 will support up to 128 readers, up to 15,000 badges, and up to 10 workstations. If the user is supporting 120 readers and 8 workstations, but is supporting 18,000 badges; then the user's hardware must reflect the requirements for System 2, not System 1.

NOTE

These are minimum requirements. If you anticipate heavy use of a system feature, such as many CCTV switches, or heavy use of host events, increase the memory or go to the next, higher platform.

P2000 Host Requirements			
Readers	Badges	Work-stations	Hardware
<i>System 1*</i>			
128	15,000	5-10	Pentium Class 2 GHz Memory 1GB HD 10 GB 7200 RPM EIDE or SCSI
<i>System 2*</i>			
256	15,000	11-25	Pentium Class 2 GHz Memory 2 GB HD 20 GB 10000 RPM EIDE or SCSI
<i>System 3*</i>			
2048	200,000	26-40**	Dual Pentium Class 2 GHz Memory 2 GB HD 3x20 GB 10000 RPM EIDE or SCSI RAID 5
<p>* The following components are common to all system servers:</p> <ul style="list-style-type: none"> ■ Fast/Wide SCSI Controller ■ Video Card with 65,535 colors (16 bit) or more ■ 17-inch monitor ■ 3.5 inch floppy drive ■ CD-ROM drive ■ Two-button mouse ■ 101-type keyboard ■ One network interface (10BASE-T or faster) <p>** Number of workable concurrent workstations may vary</p>			

P2000 Workstation

The minimum recommended workstation requirements are as follows:

Minimum Requirements	Recommended Requirements
<ul style="list-style-type: none"> ■ Pentium Class 750 MHz CPU ■ 256 MB RAM ■ 1024 x 768 resolution video card, 64 K colors ■ 17-inch video monitor ■ 2.1 GB HD ■ 3.5 inch floppy drive ■ 10BASE-T Network controller card ■ CD-ROM ■ Two-button mouse ■ 101-type keyboard 	<ul style="list-style-type: none"> ■ Pentium 4, 3.2 GHz CPU ■ 512 MB RAM ■ 1024 x 768 resolution video card, 64 K colors ■ 17-inch video monitor ■ 80 GB HD ■ 3.5 inch floppy drive ■ 100BASE-T Network controller card ■ CDRW ■ Two-button mouse ■ 101-type keyboard

Panel Firmware Requirements

The minimum panel firmware requirements are as follows:

- CK705/CK720, version 1.2 or greater
- CK721
- CK722

Printers

Services such as printing and network communications are specific to your system. These services are minimally addressed in your *P2000 Software User Manual*. If you need assistance, see your system administrator.

Using P2000 Custom Report Writing

If you plan to create custom reports in addition to the many standard reports available in P2000, you must install Crystal Reports® version 9.0 yourself. This software is not supplied by Johnson Controls. Install according to the manufacturer's instructions; no specific settings are required for use with P2000.

NOTE

The Crystal Reports software should be installed after all other software has been installed. It is recommended that the Crystal Reports software be installed and used on a P2000 Workstation, not on the Server.

SERVER SETUP

This chapter describes how to prepare your server for the P2000 software installation. These instructions are intended for end users who are installing their own software, or in cases where Johnson Controls-loaded software must be reloaded in the field. In general, you will follow the manufacturer's installation guide to install these products; however, some P2000-specific settings will be necessary for optimum operation.

Optional procedures, not described in this document, include configuration of the backup device and Crystal Reports installation. The Crystal Reports software version 9.0 is not included with the standard software package supplied by Johnson Controls. It is required only if you create custom reports.

INSTALLATION OUTLINE

To prepare the server for P2000 software installation you will be performing the following procedures:

- ☐ Windows Server 2003 Installation page 2-2
- ☐ Verifying Hardware Configuration page 2-3
- ☐ Internet Information Services (IIS) and ASP.NET Installation page 2-3
- ☐ *Optional:* Joining a Domain (Optional) page 2-8
- ☐ SQL Server 2005 Standard Edition Installation page 2-11

NOTE

After each reboot, log on as the system administrator. If the server is on the domain, log on to the domain as the system administrator.

WINDOWS SERVER 2003 INSTALLATION

You will need:

- Windows Server 2003 CD
- Product key (found on the back of the Windows Server 2003 CD folder)

➤ **To install Windows Server 2003:**

Install the operating system per the manufacturer's instructions and according to your system administration requirements. Note the following:

- In the **Computer Name** field, enter the name of the server. You will need to use the same name when connecting to P2000 workstations. Johnson Controls uses P2000 as the factory default setting.
- Johnson Controls uses **Master1** as the factory default setting for the Windows Server 2003 Administrator password.
- Setting the correct time and date for Microsoft Server 2003 is critical as there is a 60-day grace period during which you must register the software. Since the default date will be older than 60 days, correcting the date after the software is installed will disable the operating system and you will be unable to log on until registered.

NOTE

Installation beyond this point is documented using the Classic Start menu. If you prefer to use the new default Start menu, the instruction steps may vary slightly.

➤ **To change the Start menu style (recommended):**

1. Right-click the **Start** button, and then click **Properties**.
2. Under the **Start Menu** tab, click one of the following options:
 - To select the default Start menu, click **Start menu**.
 - To select the style from an earlier version of Windows, click **Classic Start menu**.
3. Click **OK**. Next time you click **Start**, the menu will be displayed in the style selected.

VERIFYING HARDWARE CONFIGURATION

Before proceeding, verify hardware configuration to ensure all network cards, drivers, and network-associated settings are accurate.

➤ **To verify driver and other components in Device Manager:**

1. Go to **Start>Settings>Control Panel>System**
2. In the system properties window select the **Hardware** tab.
3. Under the Hardware tab, click on **Device Manager**.
4. A question mark next to any components under **Other devices** means that the hardware is not functioning properly. Right click on any unknown device and select **Properties** for error messages.
5. Resolve all hardware problems before proceeding.
6. Reboot the computer.

➤ **To verify hardware configuration:**

1. Select **Start>Programs>Administrative Tools>Event Viewer**.
2. In The Event Viewer window, click on **System Log**.
3. Red, stop sign icons may appear in the list indicating installation/configuration errors. Double-click each line item entry flagged by a stop sign and review the event detail.

You must resolve any hardware issues prior to loading SQL Server or P2000 software.

Typical errors include:

- Network card configuration errors
- CD ROM failure
- Drivers not available

INTERNET INFORMATION SERVICES (IIS) AND ASP.NET INSTALLATION

Complete this section to configure the server as an Application Server.

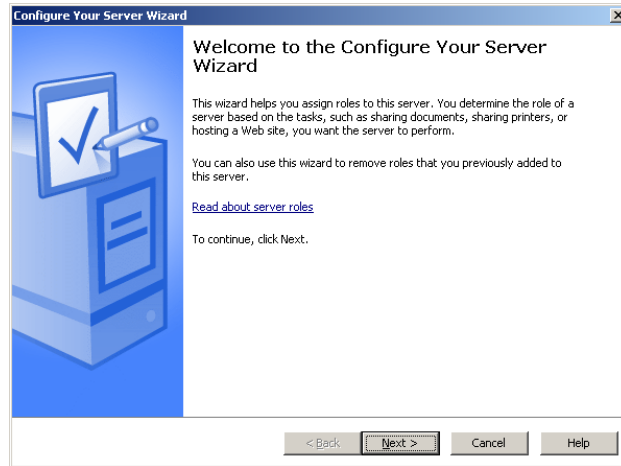
You will need:

- Windows Server 2003 CD

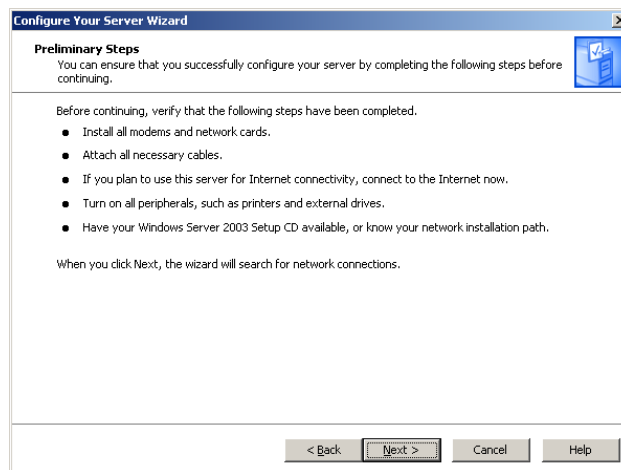
➤ **To configure the server as an Application Server:**

1. Log on as the system administrator.
2. Go to **Start>Programs>Administrative Tools>Configure Your Server Wizard**.

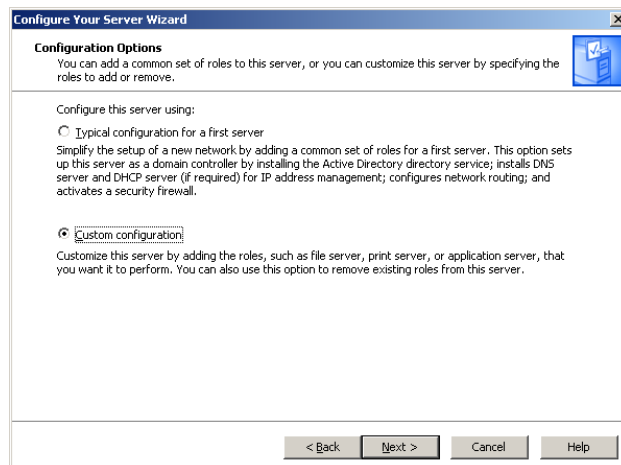
3. The Welcome to the Configure Your Server Wizard opens; click **Next**.



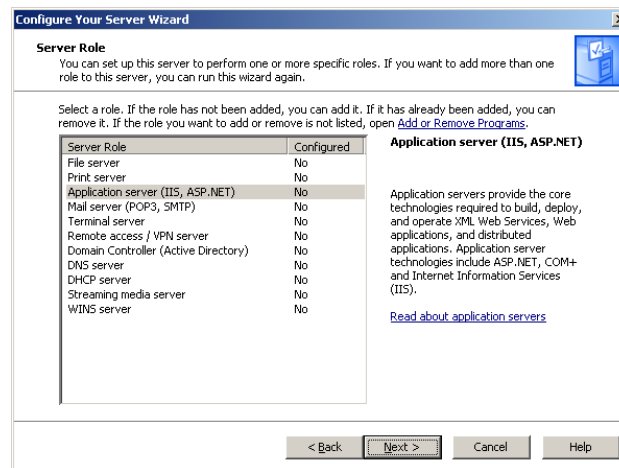
4. Verify the steps listed have been completed and click **Next**. The wizard will then detect your network settings. This may take about a minute.



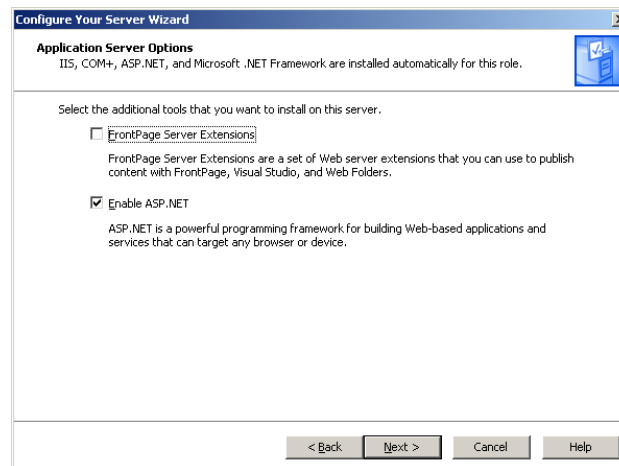
5. Select the **Custom configuration** radio button and click **Next**.



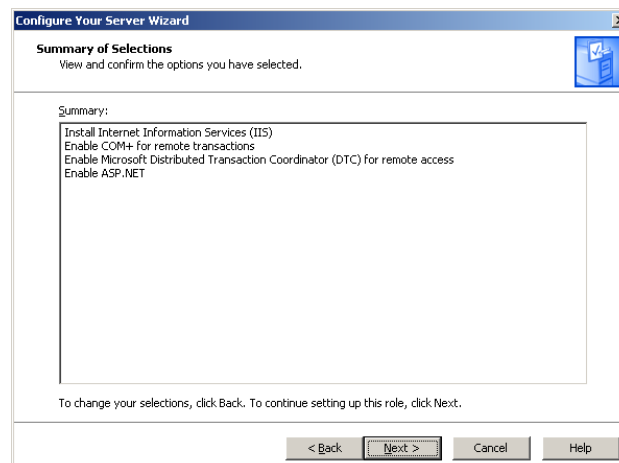
6. Highlight **Application server (IIS, ASP.NET)** and click **Next**.



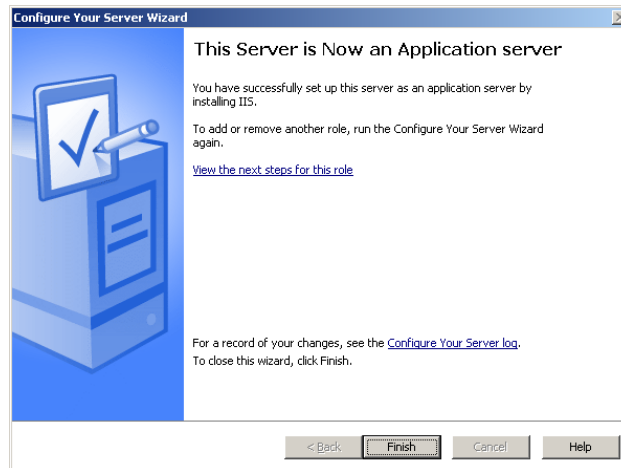
7. Select the **Enable ASP.NET** check box and click **Next**.



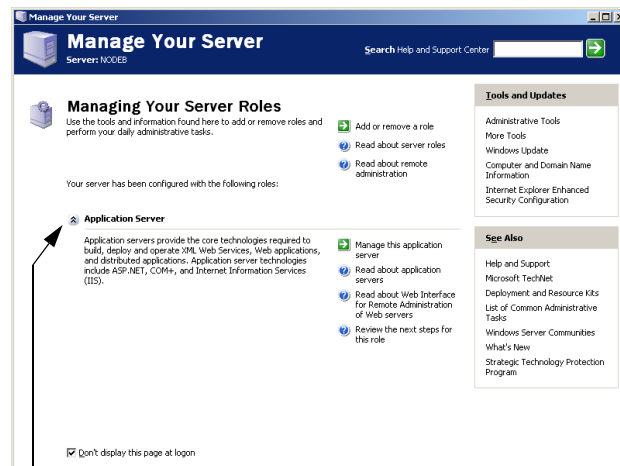
8. View the settings and confirm by clicking **Next**. The Configure Your Server Wizard will now begin adding the selected role to the server. The Applying Selection window will remain active during setup.



9. When prompted, insert the Windows Server 2003 CD and click **OK**. Windows will copy files to the hard drive of the computer and begin configuring ASP.NET and Internet Information Services.
10. When the Welcome screen opens, click **Exit**.
11. When the This Server is now an Application server, window appears, click **Finish** to close the wizard.



12. In the Manage your Server window, verify that the **Application Server** has been configured.



Application Server
has been configured

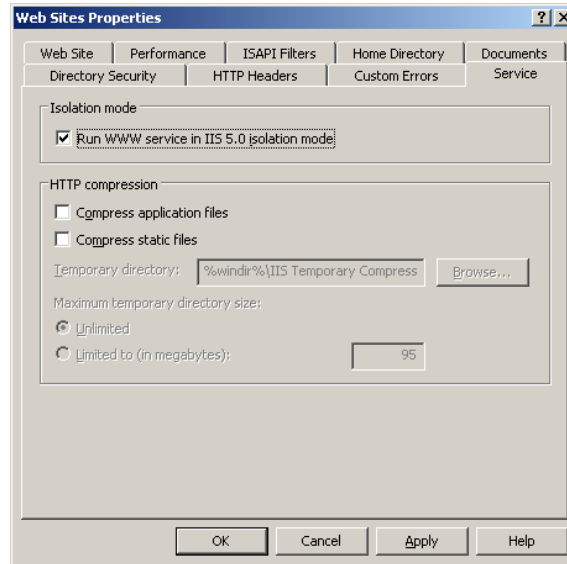
13. Close the Manage Your Server window and remove the CD.

Configuring the IIS Isolation Mode

Perform this procedure if you intend to use the Web Access and/or Metasys system extended architecture options.

► **To configure the IIS isolation mode:**

1. Go to **Start>Programs>Administrative Tools>Internet Information Services (IIS) Manager**.
2. In the Internet Information Services (IIS) Manager window, expand the directory tree labeled with the computer name.
3. Right-click on **Web Sites** and select **Properties**.
4. In the Web Sites Properties window, under the **Service** tab, select the **Run WWW service in IIS 5.0 isolation mode** check box and click **OK**.



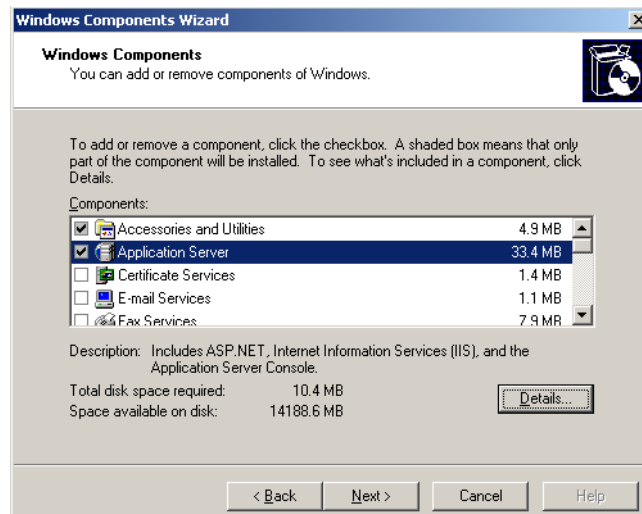
5. If asked whether you want to restart IIS, click **Yes**.
6. Close the Internet Information Services (IIS) Manager window.

ENABLING MESSAGE QUEUING

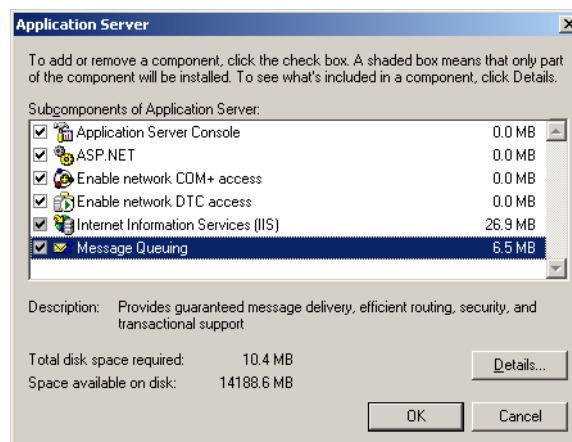
► **To enable message queuing:**

1. Go to **Start>Settings>Control Panel**.
2. Double-click the **Add or Remove Programs** icon.
3. In the Add or Remove Programs window click **Add/Remove Windows Components**.

4. In the Window Components Wizard window, highlight **Application Server** and click **Details**.



5. In the Application Server window, in addition to items that are already selected, select the **Windows Messenger** check box. Click **OK**.



6. In the Window Components Wizard window, click **Next**.
7. The Windows Components Wizard begins installation. When the process is complete, click **Finish**.
8. Close the Control Panel window.

JOINING A DOMAIN (OPTIONAL)

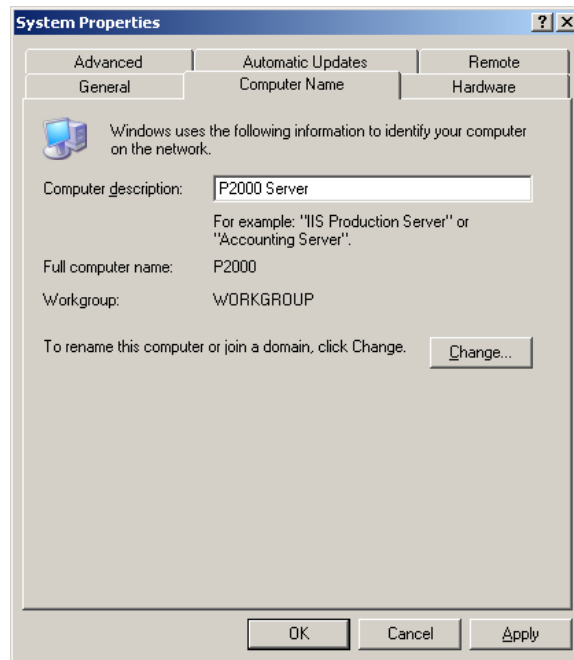
These procedures are necessary only if the P2000 system is to be run on a network *with a customer domain*. If the system is *not* going to be used on an Active Directory Network, proceed to “SQL Server 2005 Standard Edition Installation” on page 2-11.

Requirements:

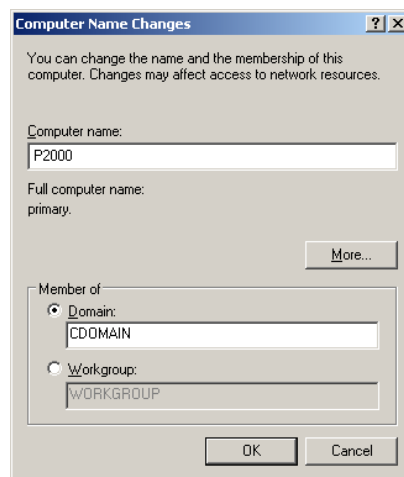
- The name of the domain must be available
- The Domain Administrator user account is required to join the domain

➤ **To join an existing domain:**

1. Right-click the **My Computer** icon and select **Properties**.
2. In the System Properties window, click the **Computer Name** tab.



3. Enter a description and click the **Change** button.
4. In the Computer Name Changes window, select the **Domain** radio button, and enter the name of the domain you want this server to join (in this example, CDOMAIN). Click **OK**



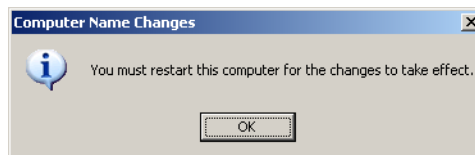
5. Enter the user name (Administrator) and password (Master1). Click **OK**.



6. Click **OK** again.

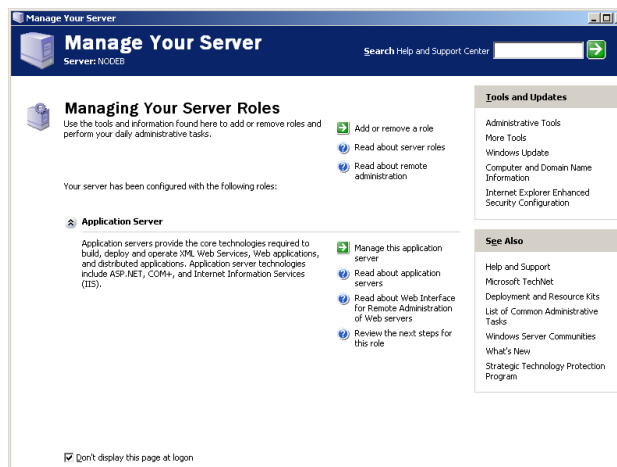


7. Click **OK** to reboot the computer.



8. Click **OK** on the System Properties window.
9. Click **Yes** to restart the computer.
10. After the computer restarts, log on to the domain as the system administrator.
11. When the Windows Server 2003 Manage Your Server window appears, select the **Don't display this page at logon** check box and close the window.

Notice that the Start Menu has reverted to the default properties.



SQL SERVER 2005 STANDARD EDITION INSTALLATION

Install SQL Server according to the manufacturer's documentation. The installation will take about 20 minutes. The following steps alert you to settings specific to running P2000.

You will need:

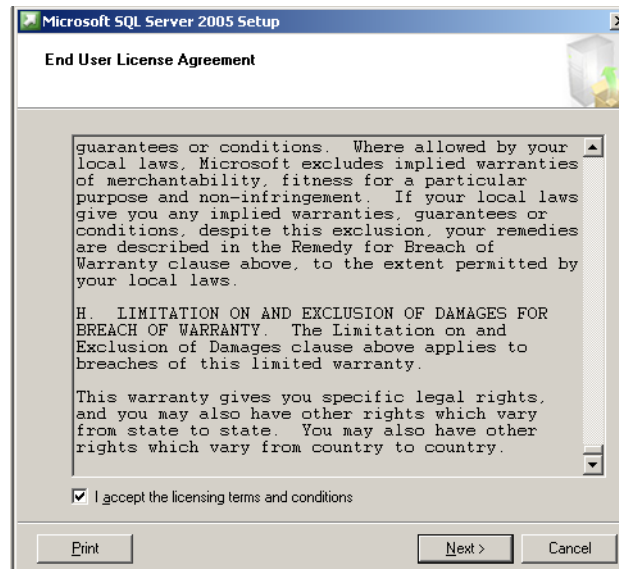
- SQL Server 2005 - Standard Edition CDs or DVD
- Product Key

► **To install SQL Server 2005 Standard Edition:**

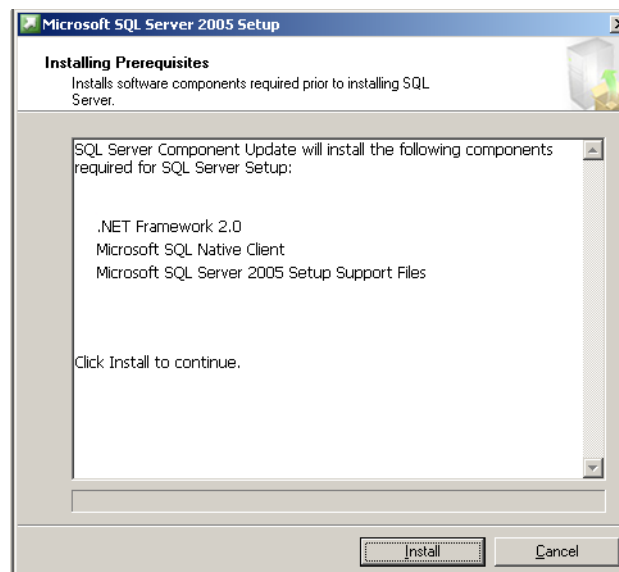
1. Log on (to the domain, if applicable) as the system administrator.
2. Insert the first SQL Server 2005 Standard Edition CD or DVD.
3. In the Start screen, click on **Server components, tools, Books Online and samples**.



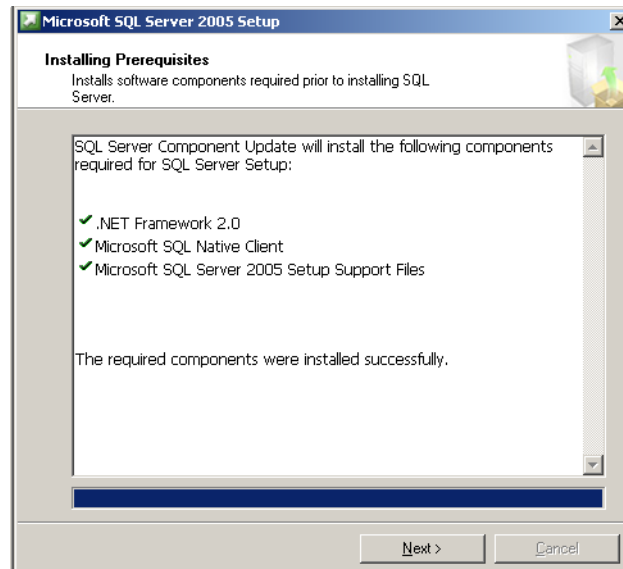
4. Select the **I accept the licensing terms and conditions** check box and click **Next**.



5. In the Installing Prerequisites screen, view the list the components needed prior to installing SQL Server 2005. Click **Install**. The installation will take several minutes.



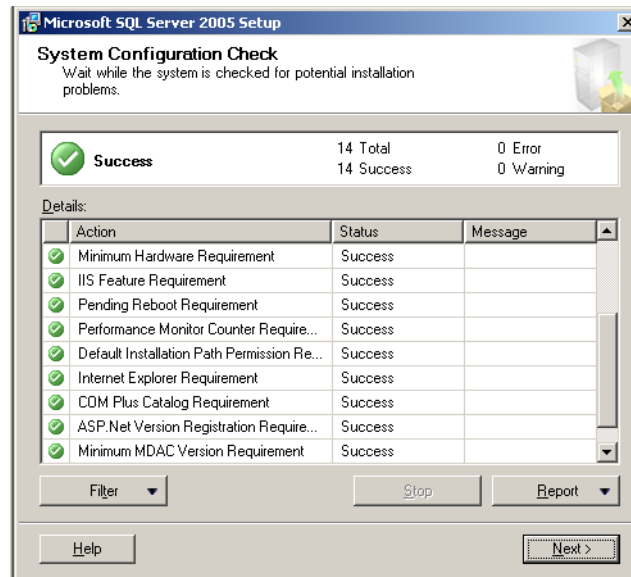
6. When the SQL Server 2005 Prerequisites installation has completed, click **Next**.



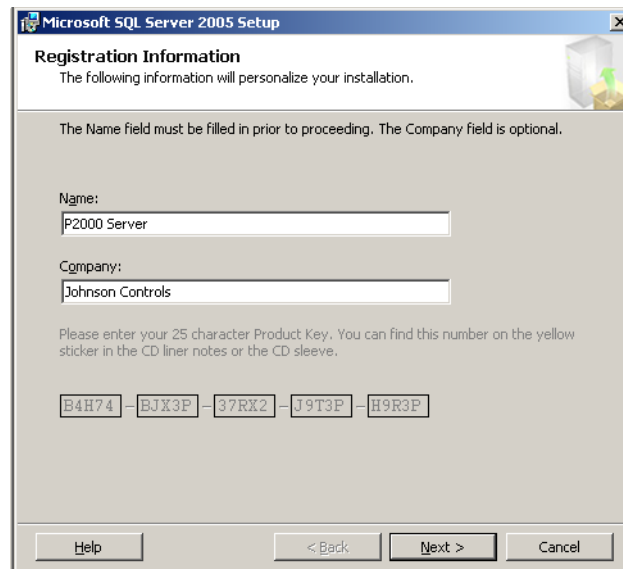
7. In the Welcome screen, click **Next**.



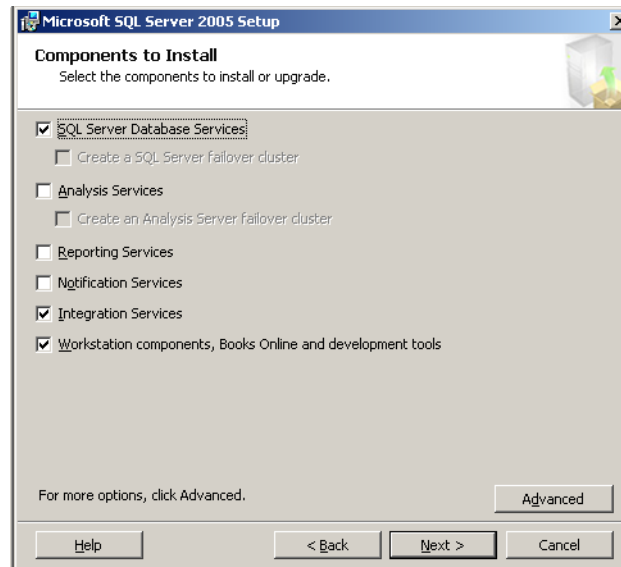
8. Notice any warnings and correct any errors before continuing. When all errors have been corrected, click **Next**.



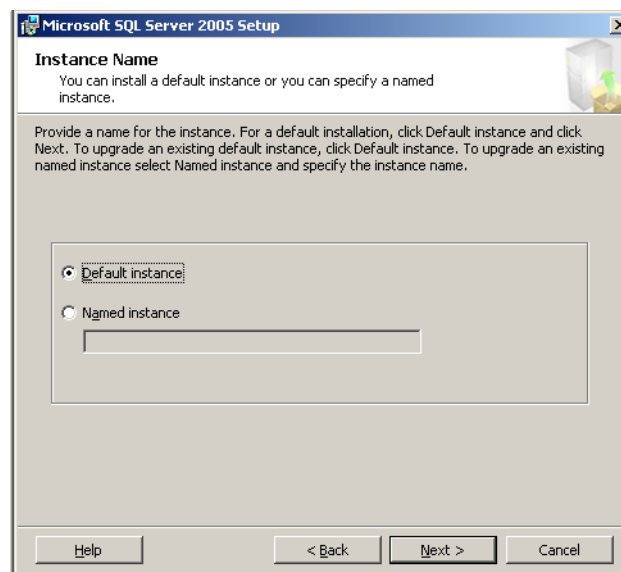
9. Type in the **Name** and **Company**. Enter the Product Key and click **Next**.



10. In the Components to Install window, select the following check boxes:
- **SQL Server Database Services**
 - **Integration Services**
 - **Workstation components, Books Online and development tools**
- Click **Next**.



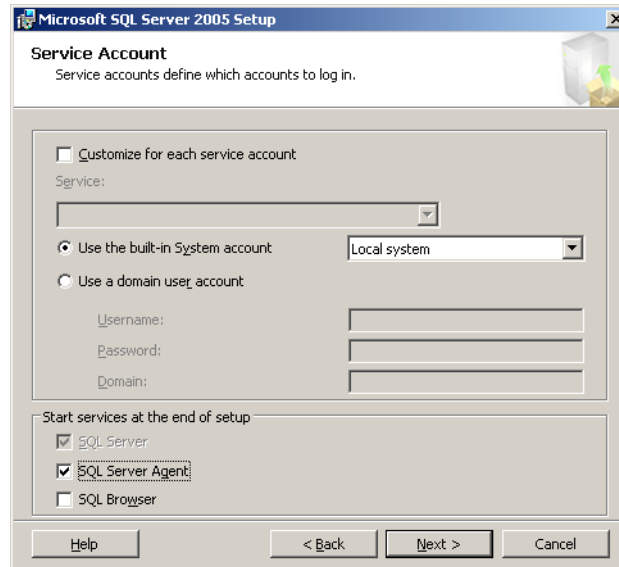
11. Verify that the **Default instance** radio button is selected, click **Next**.



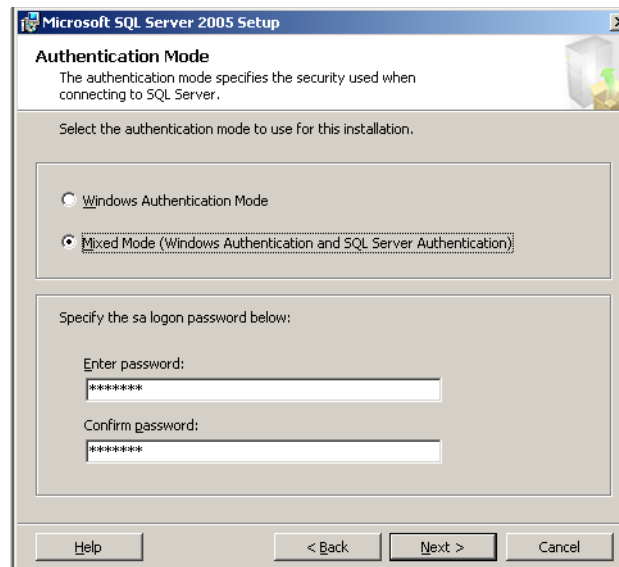
12. In the Services Accounts window, select the **SQL Server Agent** check box.

- If the server is not on a domain, select the **Use the built-in System account** check box and **Local system** from the drop-down list.
- If the server is on a domain, select the **Use a domain user account** radio button, then enter the **Username** (PSQLSERVICE) and **Password** (Master1) for a domain account that has administrative rights in this computer

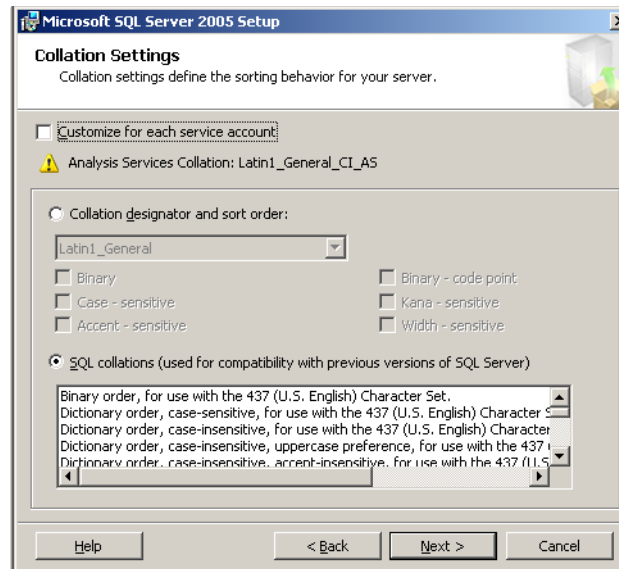
Click **Next**.



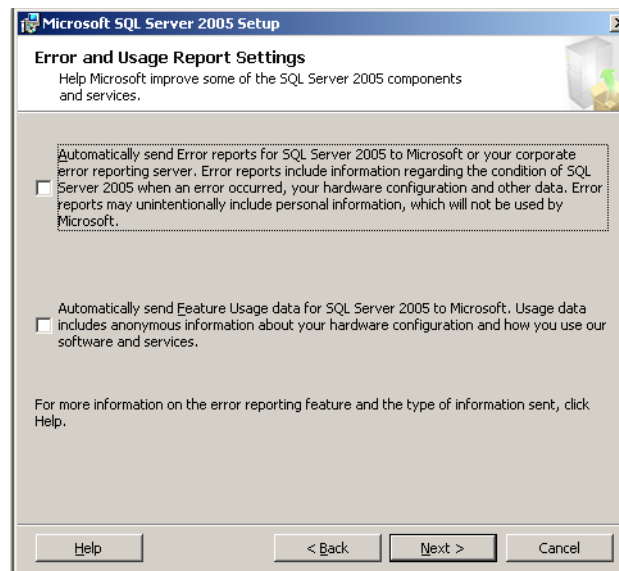
13. In the Authentication Mode window, select the radio button for **Mixed Mode (Windows Authentication and SQL Server Authentication)**. Enter and confirm the password (Master1), and click **Next**.



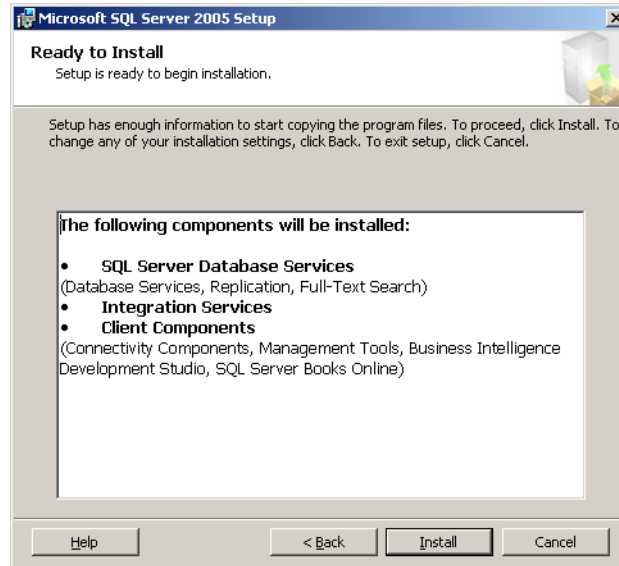
14. In the Collation Settings window verify that the **SQL collation** radio button is selected (SQL collation is used for compatibility with previous versions of the SQL Server). Click **Next**.



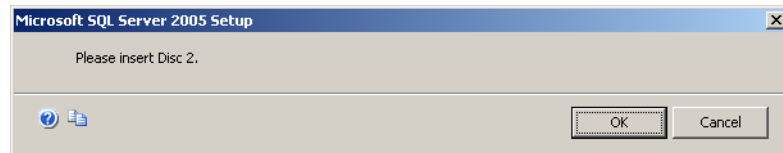
15. In the Error and Usage Report Settings window make the selection according to you preferences and click **Next**.



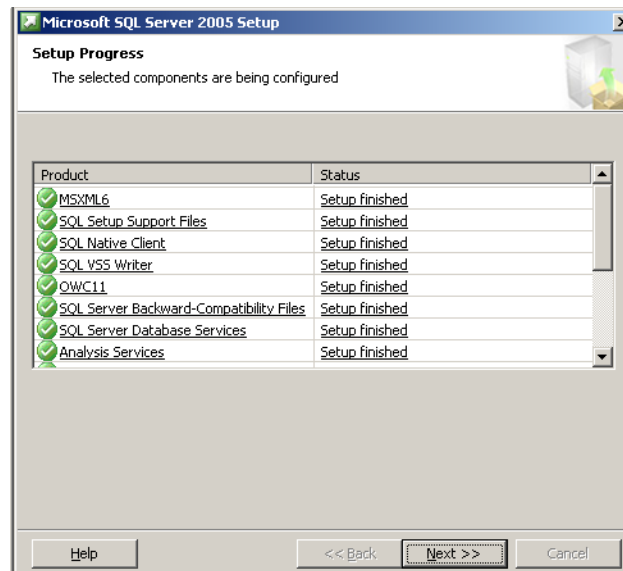
16. In the Ready to Install window click **Install**.

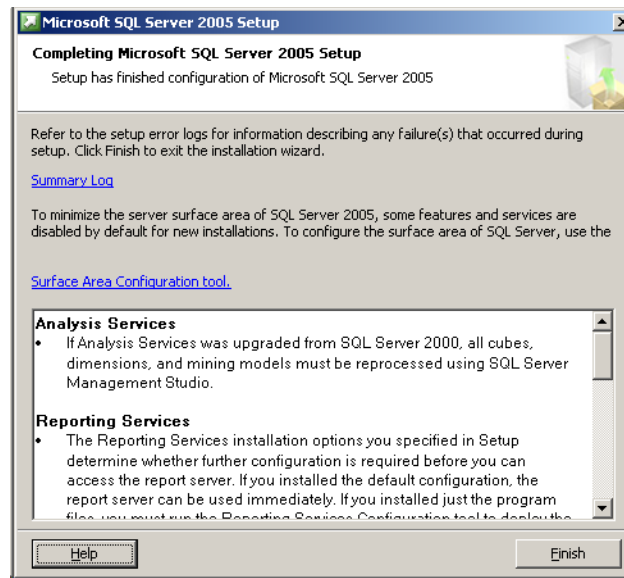


17. If you are using CDs for the installation, remove the first CD and insert the second CD. Click **OK**.



18. Wait while Setup performs several operations. This will take 15-20 minutes. When setup completes, click **Next**.



19. Click **Finish**.

20. Reboot the computer.

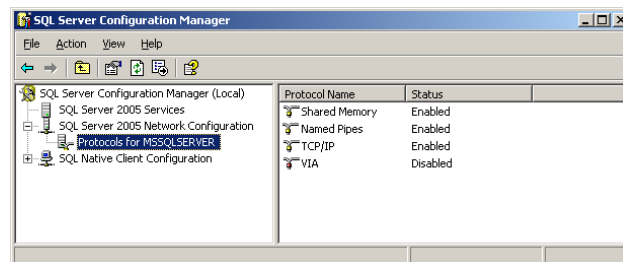
► **To verify network protocol setting:**

1. Go to **Start>Programs>Microsoft SQL Server 2005>Configuration Tools>SQL Server Configuration Manager**.
2. In the SQL Server Configuration Manager screen, expand the **SQL Server 2005 Network Configuration** entry and click on the **Protocols for MSSQLSERVER** icon.

Verify that the following protocols are enabled (the **VIA** protocol should be disabled):

- **Shared Memory**
- **Named Pipes**
- **TCP/IP**

If any of those three protocols is disabled, right-click on its icon and click **Enable**, then click **OK** and restart the computer.



You are now ready to proceed to *Chapter 3: Software Installation*.

SOFTWARE INSTALLATION

This chapter describes P2000 prerequisites and software installation on the server and workstation(s).

SOFTWARE INSTALLATION ON THE SERVER

Load the system software on the on the P2000 server *before* it is installed on the P2000 workstations.

After the installation, you will have to e-mail Johnson Controls for a Registration Key, and then enter it into the system (see “Registering the P2000 Software” on page 3-17). Without the Registration Key the P2000 server will be able to communicate with panels and workstations during the first nine days after the initial installation; on the 10th day communications will terminate.

Installation Outline

This installation outline refers to *server only*. Use the check boxes to indicate what procedures you have completed. Each check box actually represents a number of steps or even multiple procedures. You will find details on the pages indicated.

NOTE

After each reboot, log on as the system administrator. If the computer is on the domain, log on to the domain as the system administrator.

- | | | |
|--------------------------|-----------------------------------------------------------|-----------|
| <input type="checkbox"/> | Installing the P2000 Prerequisites | page 3-2 |
| <input type="checkbox"/> | Installing the P2000 Server Software, including: | |
| ■ | P2000 database | page 3-4 |
| ■ | P2000 Server software | page 3-6 |
| ■ | SCT (System Configuration Tool) | page 3-11 |
| <input type="checkbox"/> | Installing the P2000 Workstation Software (on the Server) | page 3-13 |
| <input type="checkbox"/> | Registering the P2000 Software | page 3-17 |

Installing the P2000 Prerequisites

The following prerequisites are required:

- Windows 2003 Service Pack 2
- Hotfix for Windows 2003
- Service Pack 2 for SQL 2005
- Service Pack 2 Cumulative Hotfix 3050 for SQL 2005

You will need:

- P2000 Microsoft Server 2003 Prerequisites CD

NOTE

Reboots may be required between installations. After each reboot, log in as administrator.

► To install P2000 Prerequisites:

1. Insert the CD.
2. Find the prerequisite file and double-click it to launch it.

Install the prerequisite files in the following sequence:

- WindowsServer2003-KB914961-SP2-x86-ENU.exe
- WindowsServer2003-KB931836-x86-enu.exe
- SQLServer2005SP2-KB921896-x86-ENU.exe
- SQLServer2005-KB933508-x86-ENU.exe

Before each SQL update, stop SQL Server 2005 Services (see the procedure below for instructions).

3. In most cases, simply follow the prompts and accept default selections to complete the installation.

For file SQLServer2005SP2-KB921896-x86-ENU.exe, see “To install SQL Server 2005 Service Pack 2:” on page 3-3.

► To stop SQL Server 2005 Services:

1. Go to **Start>Programs>Microsoft SQL 2005>Configuration Tools>SQL Server Configuration Manager**.
2. In the left panel of the SQL Server Configuration Manager window highlight **SQL Server 2005 Services**. In the right panel of the window, stop all active services by right-clicking on the service's icon and selecting **Stop**.
3. Close the SQL Server Configuration Manager window.

➤ **To install SQL Server 2005 Service Pack 2:**

1. Browse for and launch the following file:
SQLServer2005SP2-KB921896-x86-ENU.exe.
2. Click **Run** to start the installation.
3. In the Welcome screen, click **Next**.
4. Accept the End User License Agreement and click **Next**.
5. In the Feature Selection window accept the default selection by clicking **Next**.
6. In the Authentication Mode, verify that **Windows Authentication** is selected from the **Authentication** drop-down list. Click **Next**.
7. If the Error Reporting Settings window appears, leave all check boxes un-selected and click **Next**.
8. In the Running Processes window click **Next**.
9. In the Ready to Install window, click **Install**.
10. If the Complete Reboot Required window appears, click **Next**.
11. In the Installation Progress window click **Next**.
12. In the Installation Complete window click **Next**.
13. In the Additional Information window, un-select the following check-box:
Launch the User Provisioning Tool for Windows Vista after SP2 installation completes. Click **Finish**.
14. Manually restart the computer.

Installing the P2000 Server Software

You will need:

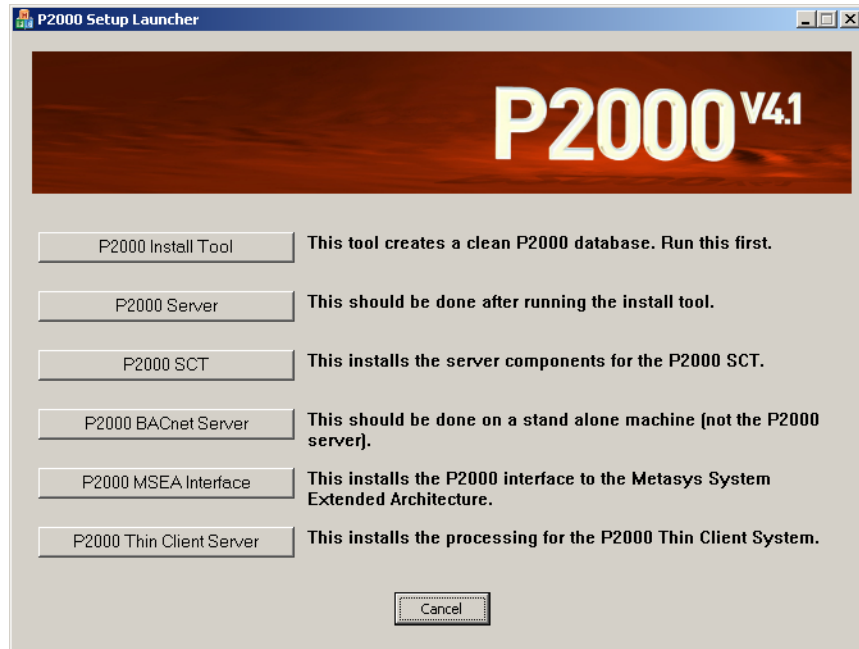
- P2000 Server Applications and Services CD

NOTE

Before proceeding, verify that the SQL Server Service is running.

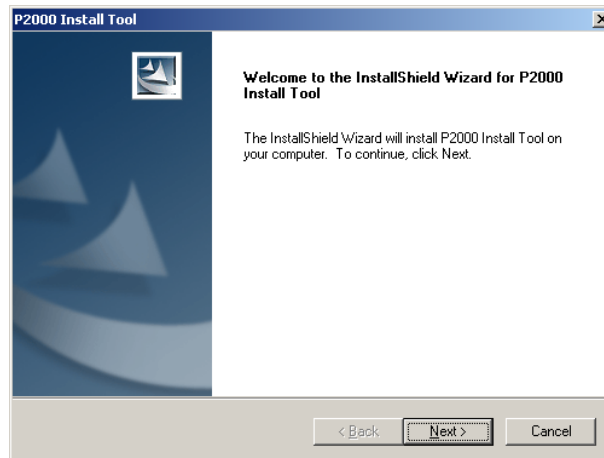
➤ **To start the installation:**

1. Insert the CD.
2. The P2000 Setup Launcher starts.

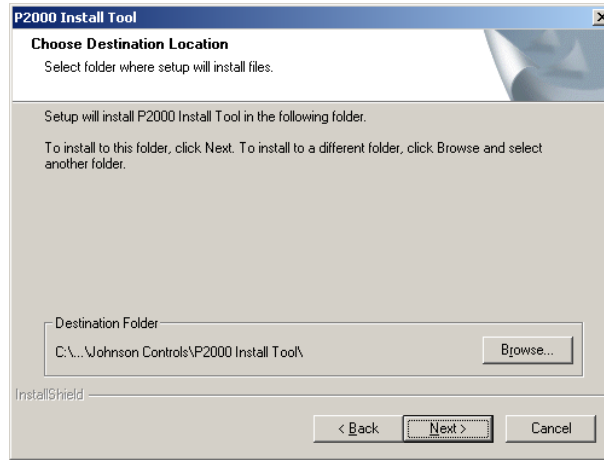


► **To install the P2000 database:**

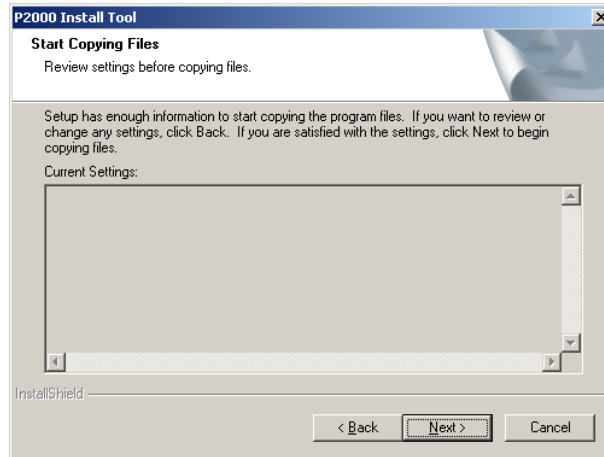
1. In the P2000 Setup Launcher window, click the **P2000 Install Tool** button.
2. The P2000 Install Tool starts. Click **Next**.



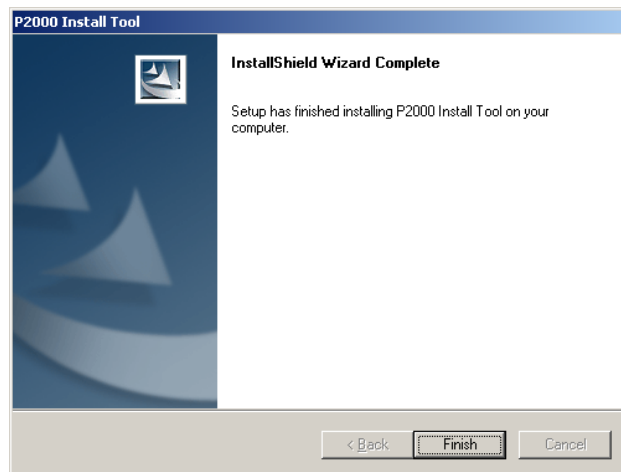
3. View the destination location for the files and click **Next**.



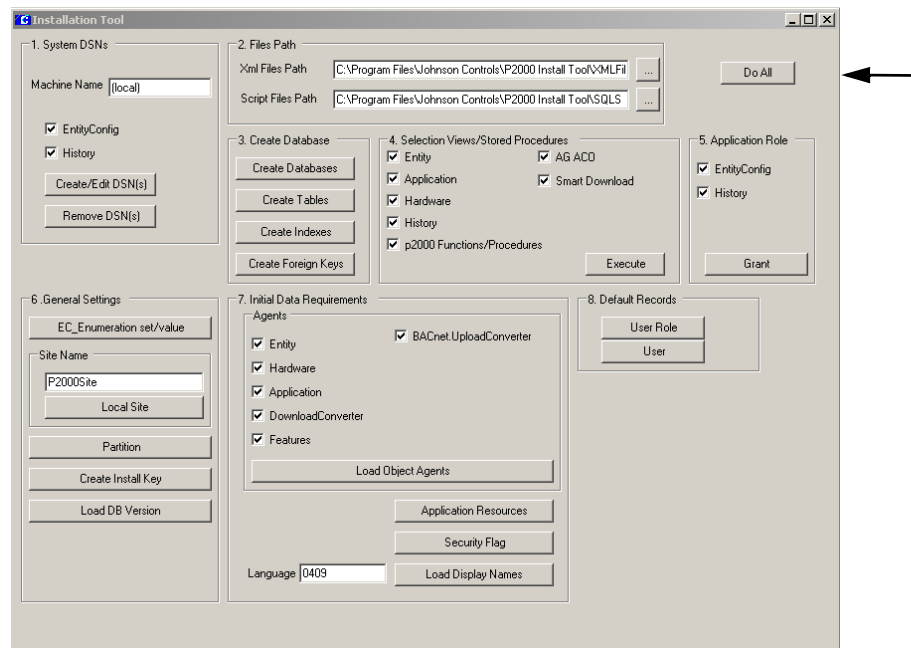
4. Click **Next** to start copying files.



5. When the copying is complete, click **Finish**. (This window may be behind the Installation Tool window shown in step 6.)



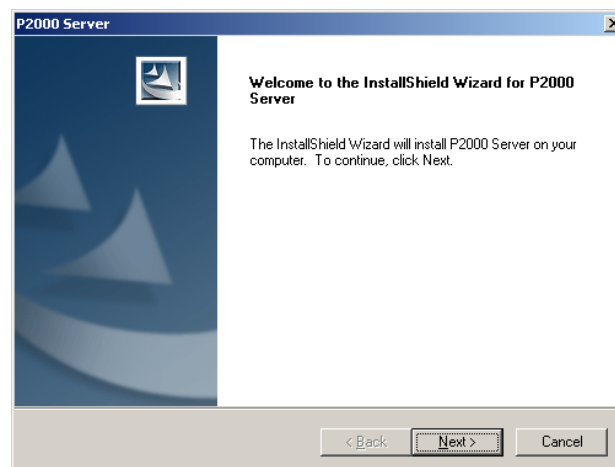
6. In the Installation Tool window, click **Do All**.



7. When the installation is complete, click **OK** to the “Finished!” message.
 8. When the installation is complete, click **OK** to
 9. Close the Installation Tool window.

► **To install the P2000 server software:**

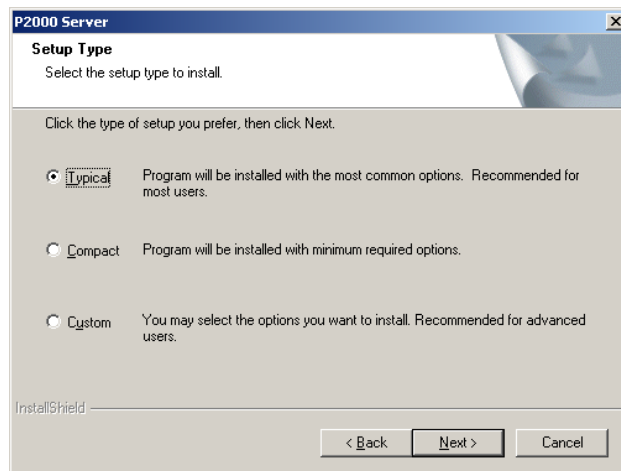
1. In the P2000 Setup Launcher window, click the **P2000 Server** button.
 2. The installation wizard starts. Click **Next**.



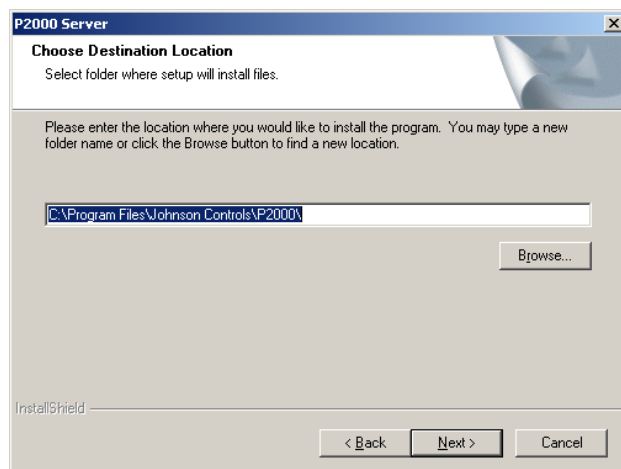
3. By default, the P2000 applications are installed *without* the CCTV/AV Server components. For the setup type select the following:
 - If you want the default installation, verify that the **Typical** radio button is selected and click **Next**, then go to step 7.
 - If you want to install the CCTV/AV Server, select the **Custom** radio button and click **Next**. Continue with step 4.

NOTE

You can also install or un-install the CCTV/AV Server at a later time using the Windows “Add or Remove Programs” tool.



4. Click **Next** to accept the default installation path.



5. If asked to create a new folder, click **Yes**.



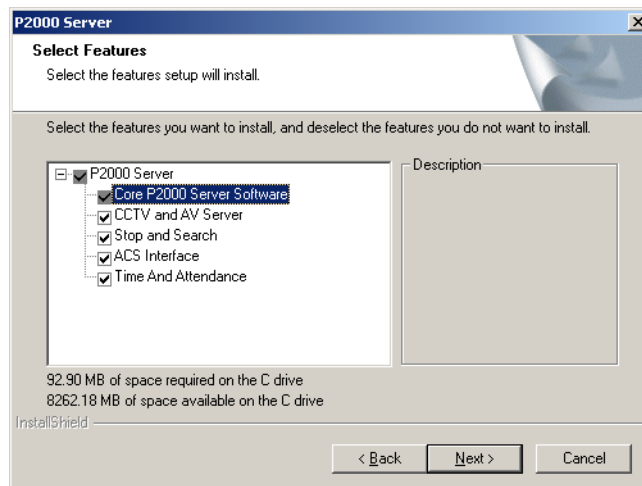
6. The P2000 server applications are selected by default. To also install the CCTV/AV Server, select the **CCTV/AV Server** check box.

The remaining check boxes should only be selected if required by your project.

NOTE

Stop and Search, ACS Instance, and Time and Attendance are custom components and should be selected only if specifically required by your system.

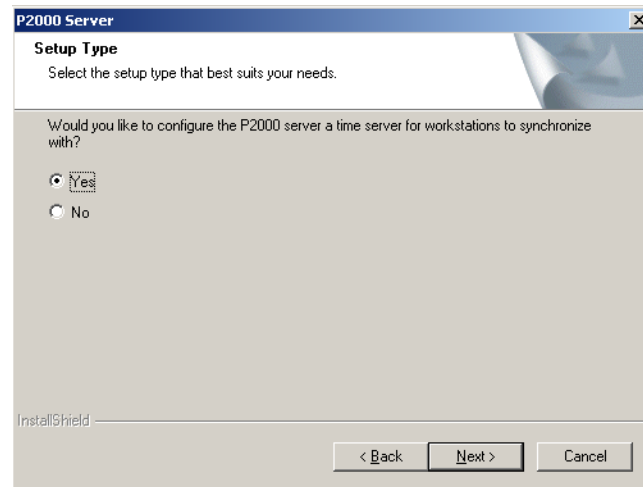
Click **Next**.



7. The P2000 system requires either configuring the P2000 server as SNTP server, or using a custom mechanism to synchronize time between the server and the workstations.

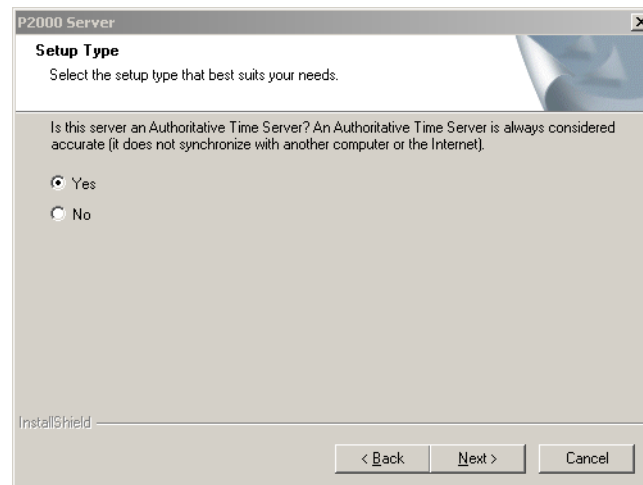
To configure the P2000 server as SNTP server, verify that **Yes** is selected; if you are using a different time server, select **No**.

Click **Next**.

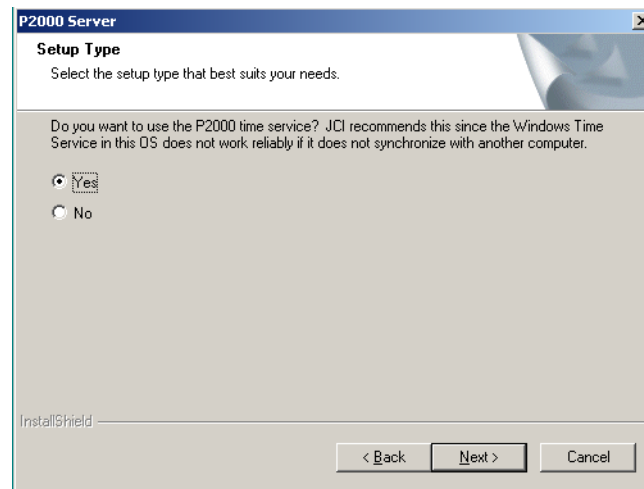


8. To set this server as the Authoritative Time Server (for synchronizing time with another computer or the internet), select **Yes** and click **Next**.

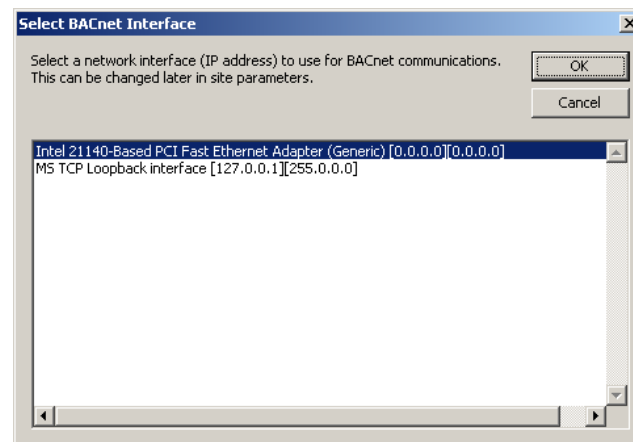
If you select **No** and click **Next** you need to proceed with step 10.



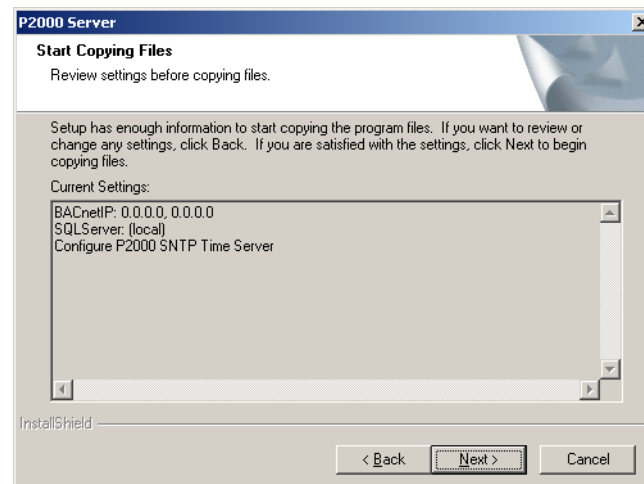
9. If you had selected this server as the Authoritative Time Server, you will be asked to use the P2000 Time Service. Verify that **Yes** is selected and click **Next**.



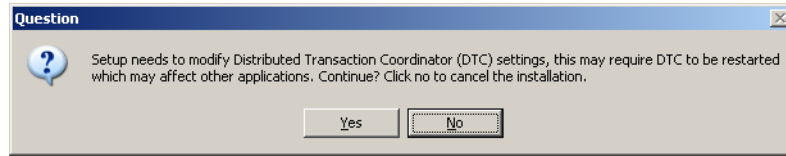
10. Select a network interface to be used for BACnet communications, click **OK**.



11. Click **Next** to start copying files.



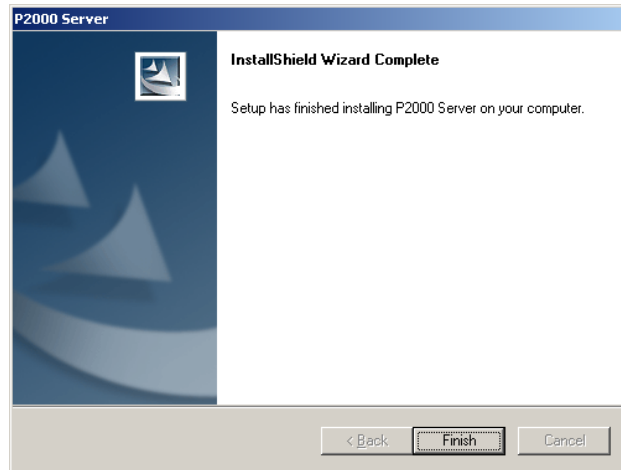
12. If asked to allow DTC settings modification, click **Yes**.



13. After DTC settings modification you will be informed about successful restart of MSDTC. Click **OK**.



14. The installation begins. When it is completed, click **Finish**.



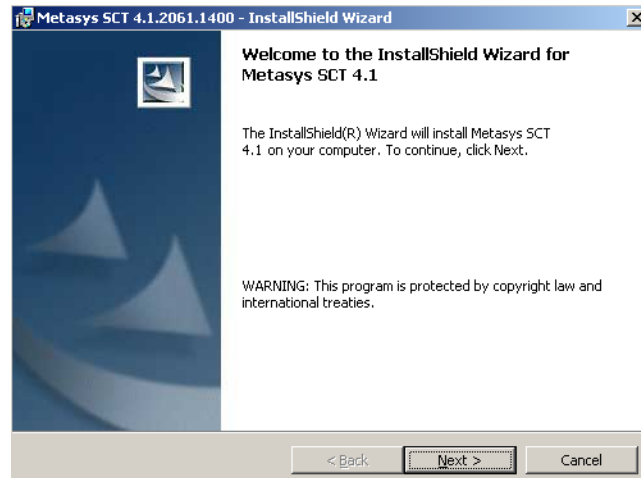
► **To install System Configuration Tool (SCT):**

NOTE

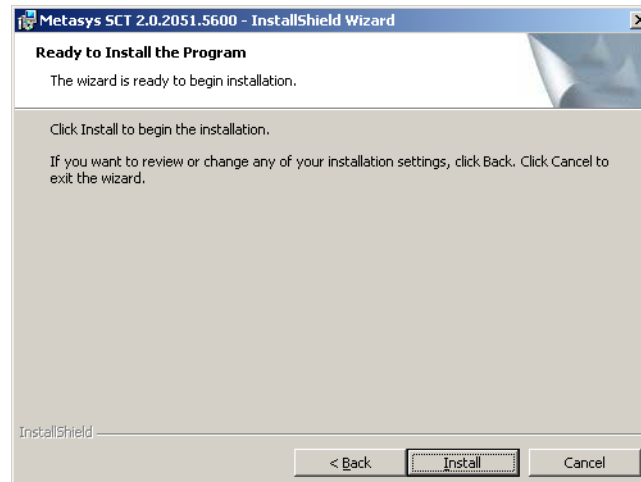
The Java Runtime Engine is required to run SCT. This component will be installed during the P2000 workstation software installation.

1. In the P2000 Setup Launcher window, click the **P2000 SCT** button.

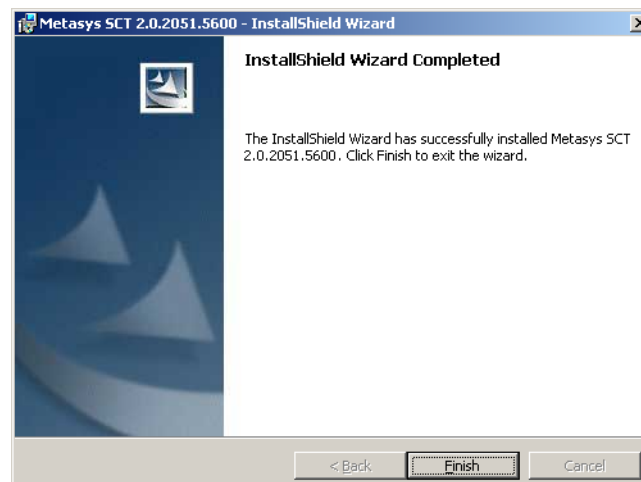
-
2. The installation wizard starts. Click **Next**.



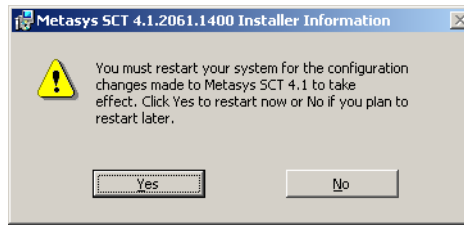
-
-
3. Click **Install** to begin the installation.



-
-
-
4. When the process is complete, click **Finish**.



- When asked to reboot the system click **Yes**.



- Remove the CD.

NOTE

For proper operation of the server, you must install the P2000 Workstation software on it as well.

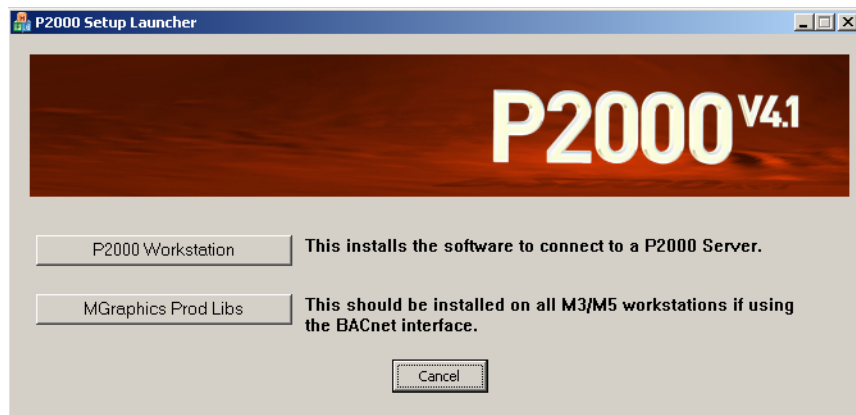
Installing the P2000 Workstation Software (on the Server)

You will need:

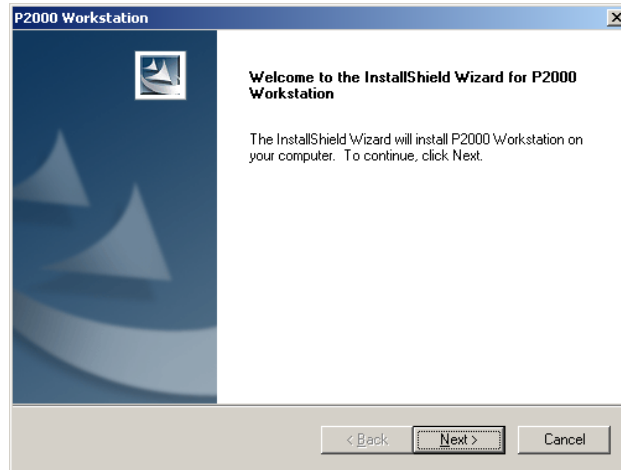
- P2000 Workstation Client Applications CD

► **To install P2000 workstation software:**

- Insert the CD.
- In the P2000 Setup Launcher window, click the **P2000 Workstation** button.



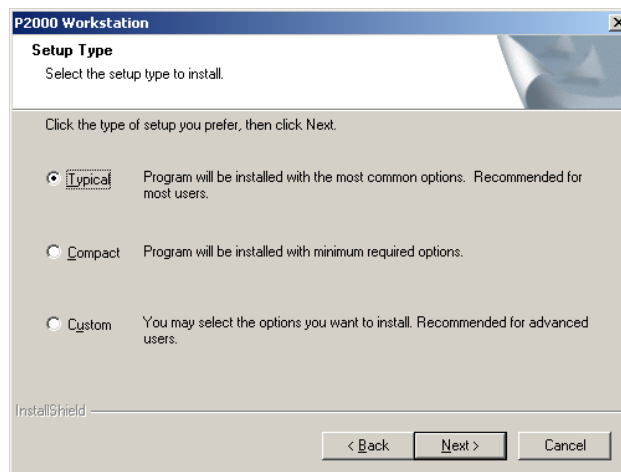
3. The installation wizard starts. Click **Next**.



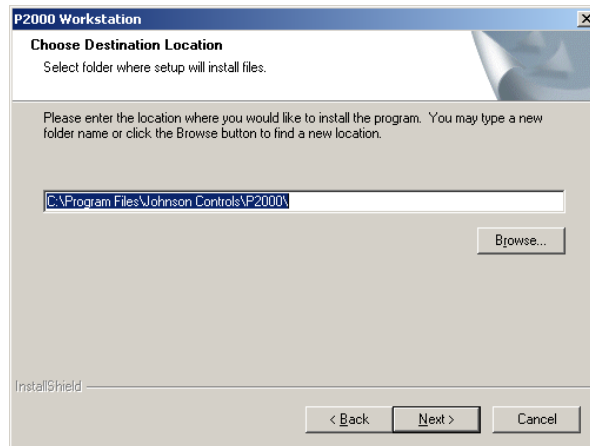
4. By default, the P2000 client applications and the Video Imaging option using the ID Server software is installed. None of the AV codecs are installed by default. For the setup type select the following:
- If you want the default installation, verify that the **Typical** radio button is selected and click **Next**, then go to step 7.
 - If you want a choice of which components to install, including codecs and the Video Imaging option using the EPI Builder, select the **Custom** radio button and click **Next**. Continue with step 5.

NOTE

You can also install or un-install the Video Imaging option and AV codecs at a later time using the Windows "Add or Remove Programs" tool.



5. Click **Next** to accept the default installation path.



6. Expand the tree and select the components you want to install:

- **Badging Software** - This selection will install the Video Imaging option and establish this machine as a badging workstation. Expand this item to choose the software to be used.

If you select **ID Server**, the Video Imaging option using the ID Server software will be installed.

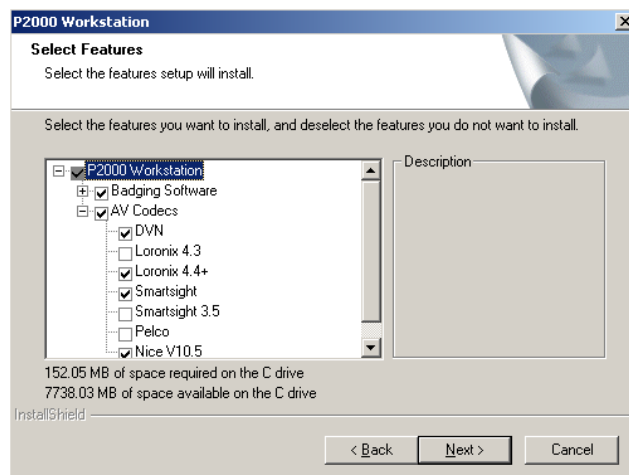
If you select **EPI Builder**, the Video Imaging option using the EPI Builder software will be installed.

- **AV Codecs** - This selection will install the files necessary for integration between P2000 and Digital Video Recording (DVR). In addition, expand this item to select the protocol(s) to be used with the AV option.

NOTE

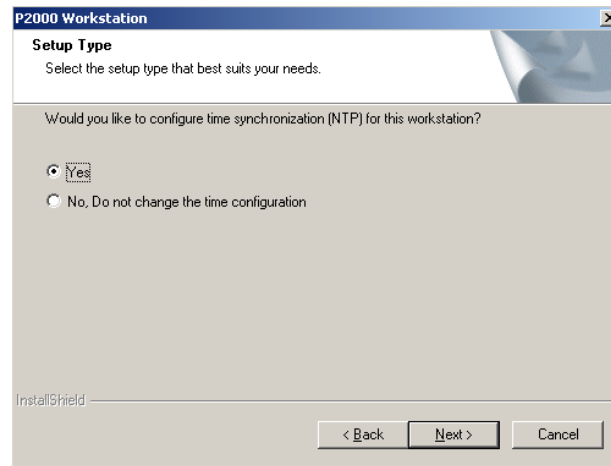
You can install only one version of each protocol at a time (for example, if you select Loronix 4.3, you cannot select Loronix 4.4+ at the same time).

Click **Next**.

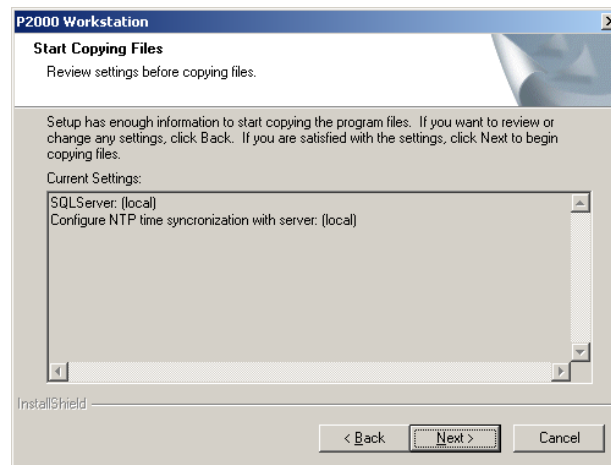


7. To use time synchronization select **Yes** and click **Next**.

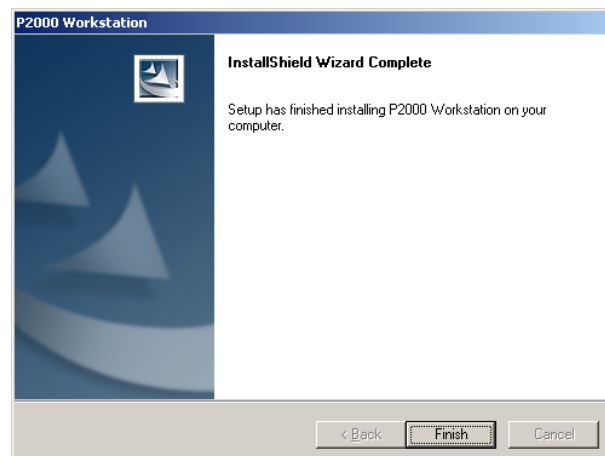
Time synchronization is required. If you do not select it here you will need to configure it manually.



8. Click **Next** to start copying files.



9. When the installation is complete, click **Finish**.

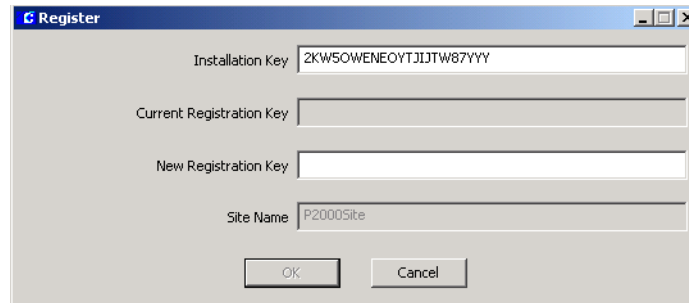


10. Close the P2000 Setup Launcher window.
11. Remove the CD.

Registering the P2000 Software

► To register P2000:

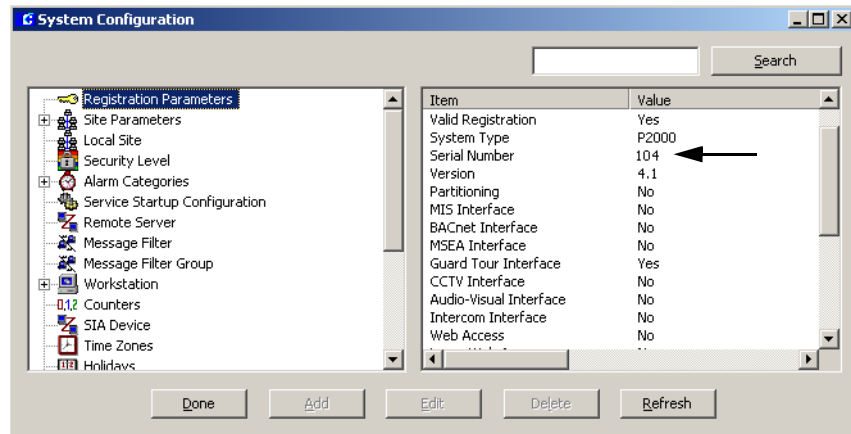
1. First, retrieve the Installation Key. To do so, go to **Start>Programs>Johnson Controls>P2000 Server>Launch Register**.



2. Contact Technical Support with the following information:
 - The Installation Key number.
 - The 7-digit AOMS number, as found on the Registration of Options form.
 - End user name, city, and state.
 - Serial number (see instructions below).
3. When you receive the Registration Key, go to **Start>Programs>Johnson Controls>P2000 Workstation>Launch Register.exe**.
4. Enter the number you have received into the **New Registration Key** field in the Register dialog box, click **OK**.
5. When asked whether to restart the computer, click **Yes**.

► To view the serial number:

1. From the P2000 Main menu select **Config>System**.
2. Specify the password (**master**) and click **OK**.
3. Click on the **Registration Parameters** icon. The serial number is displayed in the right window pane.



4. Copy the serial number (for use in obtaining the Installation Key) and close the window.

Starting Up P2000

Until the software is properly registered, every time you restart the computer and launch the P2000 software you will receive a message about the number of days left for registration.

1. Log on to the operating system as administrator.
2. Double-click the **Launch P2000** icon.
3. In the Login window, log on as Cardkey and use the password master; click **OK**.

Your new P2000 software is now ready to configure and operate. See your *P2000 Software User Manual* for full configuration and programming instructions.

SOFTWARE INSTALLATION ON THE WORKSTATION

Install the P2000 prerequisites before installing the P2000 software.

NOTE

To install the P2000 Client on a workstation, the Windows account used must have access to the P2000 database on the P2000 server, that is, the account must be a member of the PEGASYS Users, PEGASYS Administrators, or Administrators on the P2000 server machine.

Installing the P2000 Prerequisites on the Workstation

The prerequisites program will check the system and evaluate whether the following prerequisite needs to be installed:

- Windows XP Service Pack 2
- Update for Windows XP (KB931836)

You will need:

- P2000 Microsoft XP Professional Prerequisite CD

➤ To install Windows XP Service Pack 2:

1. Insert the CD.
2. Browse for and launch the **WindowsXP-KB835935-SP2-ENU.exe** file.
3. In the License Agreement window, select **I Agree** radio button and click **Next**.
4. In the **Select Options** window click **Next**.
5. Click **Finish**. The computer will restart.

➤ To install Windows XP Update:

1. When the computer restarts, browse for and launch the **WindowsXP-KB931836-X86-ENU.exe** file.
2. In the License Agreement window, select **I Agree** radio button and click **Next**.
3. Click **Finish** and remove the CD.

Installing the P2000 Workstation Software

You will need:

- P2000 Workstation Client Applications CD

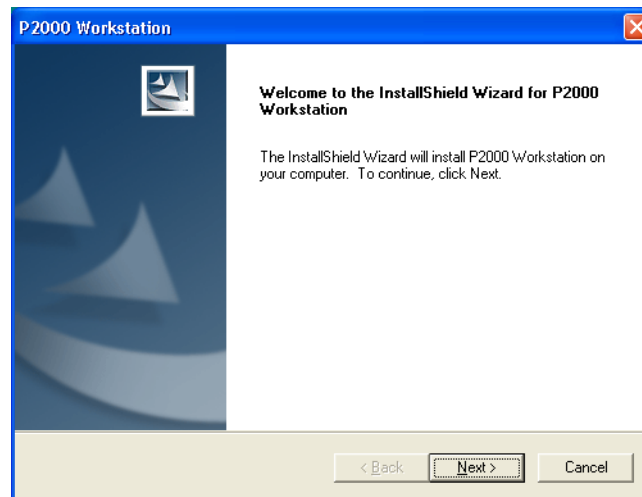
➤ To install P2000 workstation software:

1. Insert the CD.

2. In the P2000 Setup Launcher window, click the **P2000 Workstation** button.



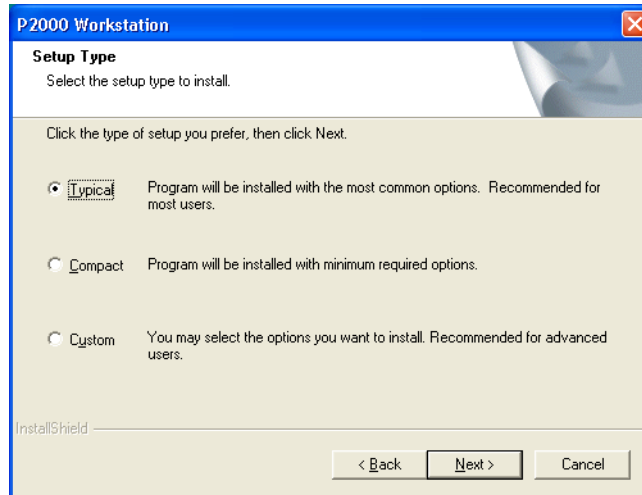
3. The installation wizard starts. Click **Next**.



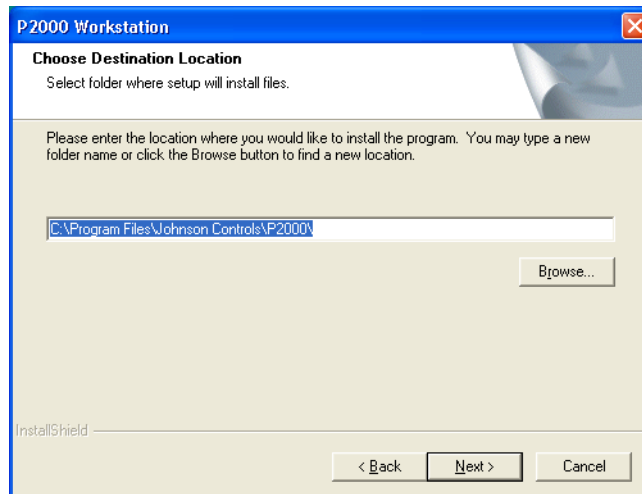
4. By default, the P2000 client applications and the Video Imaging option using the ID Server software is installed. None of the AV codecs are installed by default. For the setup type select the following:
 - If you want the default installation, verify that the **Typical** radio button is selected and click **Next**, then go to step 8.
 - If you want a choice of which components to install, including codecs and the Video Imaging option using the EPI Builder, select the **Custom** radio button and click **Next**. Continue with step 5.

NOTE

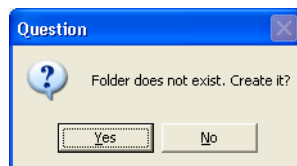
You can also install or un-install the Video Imaging option and AV codecs at a later time using the Windows "Add or Remove Programs" tool.



5. Click **Next** to accept the default installation path.



6. When asked for permission to create a new folder click **Yes**.



7. In the Select Features window expand the tree and select the components you want to instal:
 - **Badging Software** - This selection will install the Video Imaging option and establish this machine as a badging workstation. Expand this item to choose the software to be used.
If you select **ID Server**, the Video Imaging option using the ID Server software will be installed.

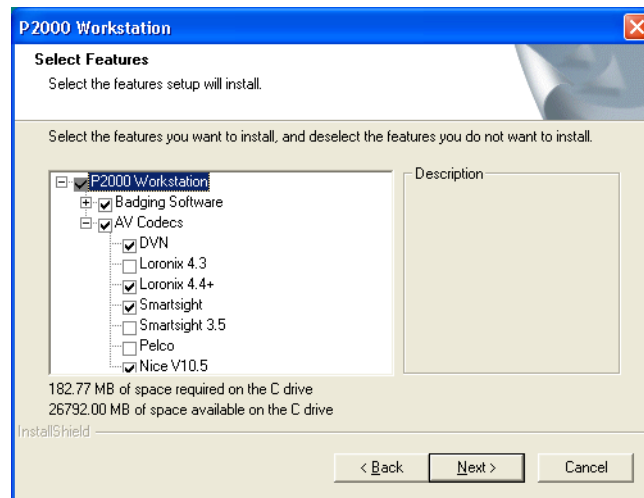
If you select **EPI Builder**, the Video Imaging option using the EPI Builder software will be installed.

- **AV Codecs** - This selection will install the files necessary for integration between P2000 and Digital Video Recording (DVR). In addition, expand this item to select the protocol(s) to be used with the AV option.

NOTE

You can install only one version of each protocol at a time (for example, if you select Loronix 4.3, you cannot select Loronix 4.4+ at the same time).

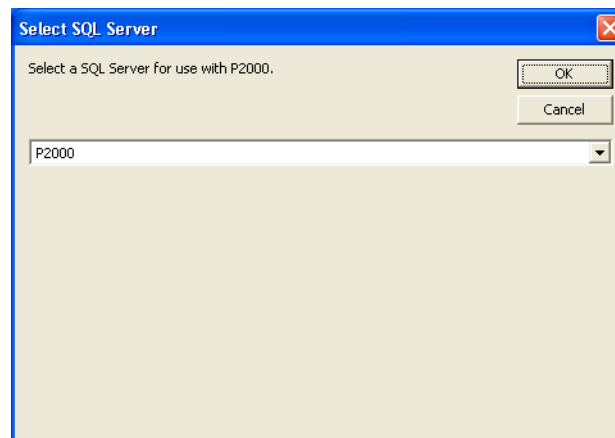
Click **Next**.



8. In the Select SQL Server window, select the server from the drop-down list. Click **Next**.

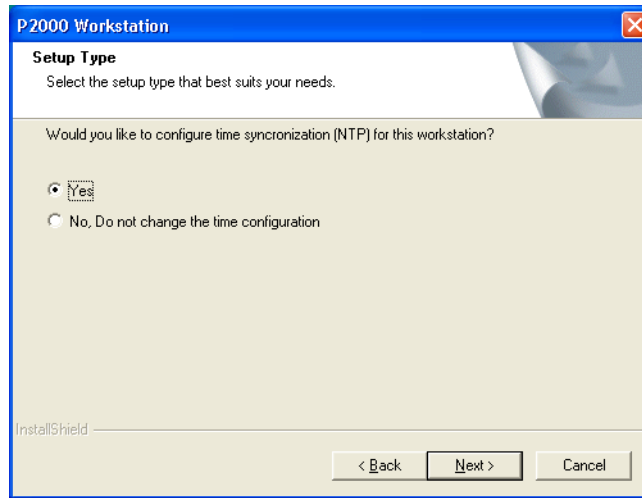
NOTE

The database server selection cannot be changed at a later time.

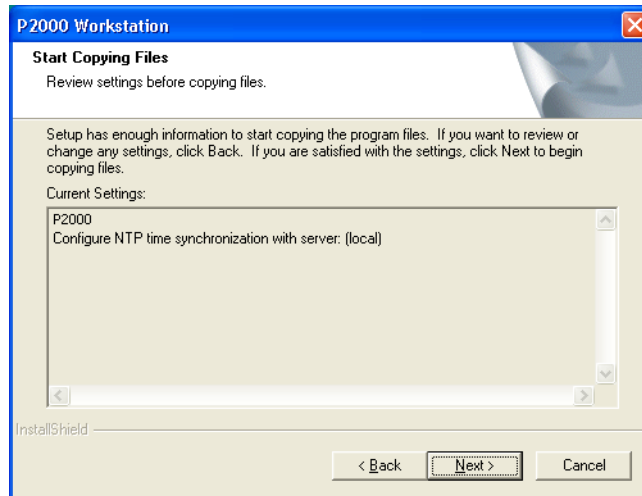


9. To use time synchronization select **Yes** and click **Next**.

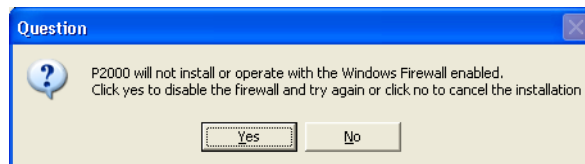
Time synchronization is required. If you do not select it here you will need to configure it manually.



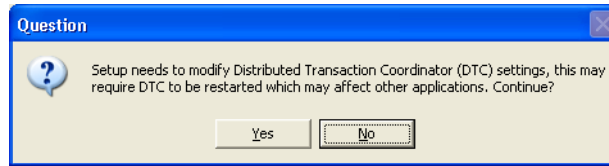
10. Click **Next** to start copying files.



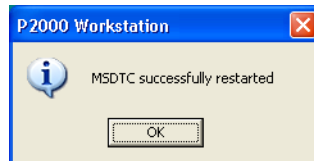
11. When asked to disable the Windows Firewall, click **Yes**.



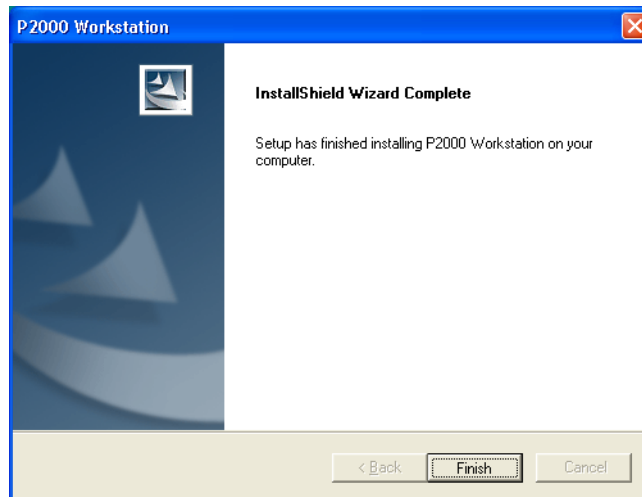
12. If asked to allow DTC settings modification, click **Yes**.



13. After DTC settings modification you will be informed about successful restart of MSDTC. Click **OK**.



14. When the installation is complete, click **Finish**.



15. Close the P2000 Setup Launcher window.
16. Remove the CD.

The installation process makes changes to the DCOM settings. For further details on DCOM configuration, please refer to the *P2000 Software User Manual*.

Notes on P2000 Workstations Running Windows XP

- Windows XP operating system allows users to have accounts without a password. However, only accounts with password can connect to the P2000 server. For instructions on setting up user accounts in Windows XP, refer to the Microsoft documentation.
- Windows XP operating system allows for multiple logins. Each concurrent login requires a separate license.
- The Windows XP operating system settings are overridden by P2000 to allow “guest user” login.

Workstations Supplied by Johnson Controls

Workstations supplied by Johnson Controls and pre-loaded with P2000 software will have been programmed to connect with a server named “P2000.” If your system server is named something other than “P2000,” you must re-install the P2000 software and select the correct server name.

UN-INSTALLING P2000 AND RELATED SOFTWARE

NOTE

For instructions specific to a redundant system, refer to the documentation provided with this option.

Prior to un-installing P2000:

- Backup the databases. Refer to the *P2000 Software User Manual* for instructions.
- Back up the Web Access files located in `webroot/p2kctc/config` directory and its subdirectories.
- Log off from P2000.

To un-install the P2000 software use the standard Add/Remove Programs utility. You can access it by going to **Start>Settings>Control Panel**, and double-clicking **Add/Remove Programs** icon.

NOTE

Un-installing the P2000 software does not remove the EPI Builder Run-Time 6 component. It has to be un-installed separately.
