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Declaration of Conformity


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

If this shipment (or any part thereof) is supplied as second-hand equipment, equipment for sale outside the European Economic Area or as spare parts for either a single unit or system, it is not covered by the Directives.
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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 P2000 Security Management System software, version 3.8.

When you purchase a complete P2000 Security Management System from Johnson Controls, the HP ProLiant ML370 G3 Server hardware and software are configured and installed at the factory. These instructions are provided for P2000 software only packages, and for those occasions when the software must be reloaded in the field, or for those cases where you need to perform a software upgrade.

For those customers who are presently running the P2000 software and wish to upgrade to version 3.8, Chapter 3: Software Upgrade provides instructions for upgrading the existing P2000 systems.

CHAPTER SUMMARIES

- **Chapter 1: Introduction**, describes the P2000 packages, minimum server and workstation requirements, and manual conventions. This chapter also contains information on how to contact technical support.
- **Chapter 2: Server Setup**, describes how to configure your server (including installation of the P2000 prerequisites) prior to installing the P2000 software.
- **Chapter 3: Software Upgrade**, this chapter has been prepared for users who are upgrading a previous version of the P2000 software or re-installing the P2000 software to add options.
- **Chapter 4: Software Installation**, provides step-by-step instructions for installing the P2000 software on the server, as well as installing the P2000 prerequisites and software on the workstation.

**NOTE**

Unless otherwise noted, all information in this manual specific to Windows Server 2003 also applies to Windows Server 2003 R2.
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 below.

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:

- HP ProLiant ML370 G3 Server
- HP SmartStart CD
- Microsoft® Windows Server 2003 R2 CDs
- SQL Server 2005 Standard Edition Installation CD
- P2000 Prerequisites CDs, version 3.8
- P2000 Software CD, version 3.8, which includes the P2000 tutorial

P2000 Software Only Package

This software package is intended to be installed by the end user. The end user must supply the operating system and the SQL Server 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 Prerequisites CDs, version 3.8
- P2000 Software CD, version 3.8, which includes the P2000 tutorial
- 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 Prerequisites, version 3.8
- P2000 Software CD, version 3.8, and the P2000 tutorial

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 4-23 for details.) This document provides complete installation instructions for P2000 for those cases where the software must be completely reloaded in the field.

P2000 Software Upgrade Package

Your P2000 version 3.8 software upgrade package contains the following:

- P2000 Prerequisites CDs, version 3.8
- P2000 Software CD, version 3.8, which includes the P2000 tutorial
- 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.

SYSTEM CONFIGURATION


The Server must be loaded with the following software:

- One of the following operating systems:
  - Microsoft Windows Server 2003 or Microsoft Windows Server 2003 R2
  - Microsoft Windows 2000 Server
- One of the following database engines:
  - Microsoft SQL Server 2005 Standard Edition
  - Microsoft SQL Server 2000 Standard Edition
- P2000 Prerequisites, version 3.8
- P2000 Software, version 3.8
NOTE
The P2000 server should be used as a dedicated server for the P2000 Security Management System. The software installed on the server should be limited to the Microsoft Windows operating system, SQL Server, and the P2000 software. If you wish to install and run other 3rd-party applications, please contact a Johnson Controls® Technical Support specialist for assistance.

Workstations use:
- One of the following operating systems:
  - Microsoft Windows 2000
  - Microsoft Windows XP
  - Microsoft Vista Business
  - Microsoft Vista Ultimate
- P2000 Prerequisites, version 3.8
- P2000 Software, version 3.8

The prerequisites include:
- Windows 2000 SP4
- Windows XP SP2
- Windows 2003 SP2
- Internet Explorer 6.0 SP1
- MDAC, version 2.8 (with ODBC V2.8 SP1)
- MSI, version 3.1 v2
- .Net 1.1
- .Net 1.1 SP1
- .Net 2.0
- DirectX, version 9.0c
- SQL Server 2000 SP4
- SQL Server 2005 SP2

When you run the Prerequisites CDs, automatic checking process will determine which of the above prerequisites are required on your system.

Minimum System Server Requirements

The following table and sections show the recommended hardware requirements for the server, workstation, and panel firmware when running the P2000. 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 nominal recommendations. 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.*

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*Number of workable concurrent workstations may vary

The following components are common to all system servers:

- 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)
Minimum Workstation Requirements

- Pentium Class Minimum 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

Recommended Workstation Requirements

- Pentium Class Minimum 1.6 GHz CPU
- 512 MB RAM
- 1024 x 768 resolution video card, 64 K colors
- 17-inch video monitor
- 40 GB HD
- 3.5 inch floppy drive
- 100BASE-T Network controller card
- CD-ROM
- Two-button mouse
- 101-type keyboard

Minimum Panel Firmware Requirements

- CK705/CK720, version 1.2 or greater
- D620, version PS143G or greater
- D620-TIU, version PS173E or greater
- P900, version 1 and version 2 (Dial-Up feature is not supported)
- CK721
- S321
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 or higher 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 P2000 Server.

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. PST to 5 p.m. PST Monday through Friday. System users can get answers to operator questions by calling the local Johnson Controls Inc. sales/service office.

The authorized dealer representatives can also provide you with information on the maintenance contracts and the on-site field service.
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.

CAUTION

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.

WARNING

Warnings indicate that the possibility of personal injury exists if an action or actions are not performed exactly as stated.
SERVER SETUP

This chapter describes how to prepare your server for 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.

The instructions vary slightly, depending on the operating system you are using. All operating systems require Internet Information Services (IIS). Choose the appropriate section from the following:

- “Procedures for Windows Server 2003” on page 2-2
  These instructions detail the server setup procedures as performed in preparation for the P2000 installation when using the Windows Server 2003 or Windows Server 2003 R2 operating system. The instructions include steps to be performed if a server is on a customer domain.

- “Procedures for Windows 2000 Server” on page 2-25
  These instructions detail the server setup procedures as performed in preparation for the P2000 installation.

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

NOTE

The P2000 server should be used as a dedicated server for the P2000 Security Management System. The software installed on the server should be limited to the Microsoft Windows operating system, SQL Server, and the P2000 software. If you wish to install and run other 3rd-party applications, please contact a Johnson Controls® Technical Support specialist for assistance.
PROCEDURES FOR WINDOWS SERVER 2003

You will be performing the following procedures:

- Windows Server 2003 Installation
- Optional: Joining a Domain
- SQL Server 2005 Standard Edition Installation
  or SQL Server 2000 Standard Edition Installation
- P2000 Prerequisites Installation

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.

NOTE
Unless otherwise noted, instructions provided for Windows Server 2003 also apply to Windows Server 2003 R2.

WINDOWS SERVER 2003 INSTALLATION

This section describes the Windows Server 2003 and Windows Server 2003 R2 installation. For the most part, you will install the operating system per the manufacturer’s instructions and according to your system administration requirements.

If the operating system does not support your computer hardware natively, it may also be necessary to create a driver disk (for instructions, refer to the manufacturer’s documentation).

The instruction below use as an example an HP computer with the SmartStart version 7.2 or higher already installed. You can still follow the outline for other hardware platforms. However, the details in the procedures may be slightly different.

You will need:

- Windows Server 2003 CD or Windows Server 2003 R2 CDs

  To install Windows Server 2003 software:

  1. Power on the server.
  2. Insert the CD.
  3. Pay attention to the installation process and, when prompted, press any key to boot from the CD.
To perform Windows Server 2003 installation:

1. At the Welcome to Setup screen, press <Enter> to continue.
2. Read the Windows Licensing Agreement and press <F8> to agree.
3. Follow the instructions and select an existing partition or unpartitioned space on which to install the operating system.
4. If there is an existing partition, press <D> to delete and then press <Enter>.
5. Press <L> to confirm.
6. Highlight the unpartitioned space and press <C> to create the new partition.
7. Press <Enter> when requested to use the maximum size for the new partition.
8. Highlight the New <Raw> partition and press <Enter>.
9. Press <Enter> to format the partition using the NTFS file system. Setup will now format the partition, load the operating system and install devices.
10. The system reboots automatically. Do not remove the CD yet.

To perform Windows Server 2003 setup:

1. After the reboot, select your regional and language options; click Next.
2. Enter your full name and the name of your company or organization. Click Next.
3. Enter the product key and click Next.
4. At the Licensing Modes window, select the Per Device or Per User radio button. Click Next.
5. In the Computer Name field, enter the name of the server. You will need to use the same name when connecting to P2000 workstations. Also, enter and confirm a password for the Windows Server 2003 Administrator. (Johnson Controls uses Master1 as the factory default setting.) Click Next.

NOTE
Setting the correct time and date (see step 6) 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.

6. Set the computer Date, Time, and Time Zone, as applicable. Click Next. It may take a moment for Windows to install networking components.
7. Wait while Windows copies files to complete the installation. This will take approximately 30 minutes.
8. The computer reboots automatically.
To complete the setup (Windows Server 2003 only):

1. When prompted, press <Ctrl> + <Alt> + <Del> and log on as the system administrator.
2. When the Manage Your Server window appears, select the Don't display this page at logon check box and close the window.
3. Proceed with “To change the Start menu style:” on page 2-4.

To complete the setup (Windows Server 2003 R2 only):

1. When prompted, press <Ctrl> + <Alt> + <Del> and log on as Administrator.
2. When the Windows Setup dialog box appears, insert the Windows Server 2003 R2 CD 2 and click OK.
4. Select the I accept the terms in the license agreement radio button and click Next.
5. Click Next again to start the installation.
6. Click Finish when the Windows Server 2003 R2 installation is completed.
7. If the Windows Server Post-Setup Security Updates window appears, perform steps 1 and 2 described on the window, if needed, and according to your company’s network security policies. Click Finish.
8. If prompted, click Yes to close the Windows Server Post-Setup Security Updates window.
9. The computer may restart automatically. When prompted, press <Ctrl> + <Alt> + <Del> and log on as Administrator.
10. When the Manage Your Server window appears, select the Don't display this page at logon check box and close the window.

To change the Start menu style:

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.

**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 screen resolution and color display:

1. Go to Start>Control Panel>Display.
2. In the Display Properties window, click the Settings tab.
3. Under Screen resolution, use the slide bar and adjust resolution to 1024 by 768 pixels.
4. From the Color quality drop-down menu select Highest (32bit). Click OK.
5. When the screen appears with the new settings, click Yes to save them.

Verifying Hardware Configuration

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 the 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

You will need:

- Windows Server 2003 CD or Windows Server 2003 R2 CD 1

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 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.
13. Close the Manage Your Server window.

Continue with “Joining a Domain” below or, if your computer is not on a network with a customer domain, proceed with the SQL Server installation.

**JOINING A DOMAIN**

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 2-12 or “SQL Server 2005 Standard Edition Installation” on page 2-12.

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.

![System Properties Window](image)

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 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

➤ 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.
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 Windows Server 2003 or master for Windows 2000 Server) 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 for Windows Server 2003 or master for Windows 2000 Server), 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. If asked, in the Report Server Installation Options window select the **Install the default configuration** radio button. Click **Next**.
16. In the Error and Usage Report Settings window make the selection according to your preferences and click **Next**.

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

18. In the Setup Progress window click **Next**.

19. When prompted, remove the first CD and enter the second CD. Click **OK**.
20. Wait while Setup performs several operations. This will take 15-20 minutes. When setup completes, click **Next**.

21. Click **Finish**.

22. 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:

- Shared Memory
- Named Pipes
- TCP/IP

Continue with “P2000 Prerequisites Installation” on page 2-23.

**SQL Server 2000 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 2000 - Standard Edition CD

➤ **To install SQL Server 2000 Standard Edition:**

1. Log on (to the domain, if applicable) as the system administrator.
2. Insert the SQL Server 2000 Standard Edition CD.
3. In the Welcome screen, click the **SQL Server 2000 Components** button.
4. Click the **Install Database Server** button.
5. When a warning appears, select the **Don’t display this message again** check box and click **Continue**.
6. In the Welcome screen, click Next.
7. In the Computer Name window, verify that the Local Computer radio button is selected; click Next.
8. In the Installation Selection window, verify that the button Create a new instance of SQL Server, or install Client Tools is selected; click Next.
9. In the User Information window, fill in the Name and Company fields; click Next.

**NOTE**
The information entered here should match the information entered during the operating system installation.

10. Read the license agreement and accept it by clicking Yes.
11. Enter your 25-digit CD key number found on the back of your CD case; click Next.
12. In the installation Definitions window, verify that the Server and Client Tools radio button is selected; click Next.
13. In the Instance Name window, verify that the Default check box is selected; click Next.
14. In the Setup Type window, verify that the Typical radio button is selected and click Next.

**To set up services accounts:**

1. In the Services Accounts window, verify that Use the same account for each service. Auto start SQL Service radio button is selected. Verify that the Use the Local System account radio button is selected. Click Next.
2. 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.
3. Click Next to start copying files.
4. In the Choose Licensing Mode window, specify the number of devices depending on the license you have; click Continue.
5. Wait while Setup performs several operations. This will take 5-10 minutes. When the process is completed, click Finish.
6. Manually restart the computer. When the computer restarts, remove the CD and log on (to the domain, if applicable) as the system administrator.
P2000 PREREQUISITES INSTALLATION

P2000 Prerequisites are required for both Server and Workstation. This section describes P2000 prerequisites installation on the server.

The prerequisite program will check the operating system and the database engine and evaluate which of the updates need to be installed. When you run the first P2000 Prerequisites CD, only the required updates will be displayed in the selection list.

**NOTE**

*Several reboots may occur during installation. Log in as the system administrator after each reboot.*

You will need:

- P2000 Prerequisites CDs, version 3.8

➤ **To install the updates:**

1. Log on as the system administrator.
2. Insert the first Prerequisites CD to start Autorun.
3. In the Welcome screen click Next.
4. Select the **P2000 Server** radio button and click Next.

5. The prerequisites program will check the system and evaluate which updates are needed. Follow the prompts to install all prerequisites from the first CD.
6. You may be asked to insert the second and/or third Prerequisites CD. Follow the prompts to install the next required update.
7. After each prerequisite installed from the second or third CD, insert the first CD again to start Autorun. (You may need to launch the program manually by double-clicking the setup.exe file.) Follow the prompts.

8. Repeat steps 6-7 until all required updates have been installed. This will be indicated by the following screen:

9. Click **Next**. The installer will close.

10. Remove the CD.

You are now ready to proceed to *Chapter 4: Software Installation*. 
PROCEDURES FOR WINDOWS 2000 SERVER

You will be performing the following procedures:

- Windows 2000 Server Installation
- P2000 Prerequisites Installation on the Server, Part I
- SQL Server 2000 Standard Edition Installation
- P2000 Prerequisites Installation on the Server, Part II

NOTE
After each reboot, log on as the system administrator.

WINDOWS 2000 SERVER INSTALLATION

This section describes the Windows 2000 Server installation. For the most part, you will install the operating system per the manufacturer’s instructions and according to your system administration requirements.

If the operating system does not support your computer hardware natively, it may also be necessary to create a driver disk (for instruction, refer to the manufacturer’s documentation).

The instruction below use as an example an HP computer with the SmartStart version 7.2 or higher already installed. You can still follow the outline for other hardware platforms. However, the details in the procedures may be slightly different.

You will need:

- Windows 2000 Server CD

➢ To install Windows 2000 Server software:

1. Insert the Windows 2000 Server CD. Click Continue.
2. The system reboots automatically. When the system comes back up, it will take several minutes to load the files.

➢ To perform Windows 2000 Server setup:

1. In the Welcome screen, click Next.
2. Wait while setup installs the devices. This may take several minutes. When the process is complete, click Next.
3. In the Computer Name field, enter a name for the server. You will need to use the same name when setting up P2000 workstations.
   Enter and confirm a password for the Windows 2000 Administrator. (Johnson Controls uses master as factory setting.) Click Next.
4. Set the computer Date, Time, and Time Zone, as applicable. Click Next.
5. In the Workgroup or Computer Domain window, select **No, this computer is not on a network, or is on a network without a domain.** Type a workgroup name in the following box and click **Next.**

6. Wait while Windows installs components. This will take approximately 15 minutes.

7. When informed that the installation has been completed successfully, remove the CD as prompted and click **Finish.**

8. The computer reboots automatically.

To complete the setup:

1. When prompted, press **Ctrl + Alt + Del** and log on as the system administrator.
2. Wait while HP Installation Utility installs and configures HP program. This will take several minutes.
3. The computer reboots automatically.
4. When the Windows 2000 Configure Your server window appears, select the radio button for **I will configure this server later**; click **Next.**
5. Un-select the Show this screen at startup checkbox and close the window.

To change screen resolution:

1. Go to **Start > Settings > Control Panel.**
2. In the Control Panel window, double-click the **Display** icon.
3. In the Display Properties window, click the **Setting** tab.
4. Under **Screen area** use the slide bar to adjust resolution settings to **1024 by 768 pixels** and click **OK** (recommended settings may vary depending on your hardware).
5. Click **OK** again.

Verifying Hardware Configuration

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) Installation

You will need:

- Windows 2000 Server CD

To install IIS:

1. Go to Start>Settings>Control Panel.
2. In the Control Panel window, double-click the Add/Remove Programs icon.
3. Click the Add/Remove Windows Components button.
4. When the Windows Components Wizard opens, in addition to the default selections, select the Internet Information Services (IIS) check box and click the Details button.
5. In the Internet Information Service (IIS) window, select only the World Wide Web Server and Internet Information Services Snap-In check boxes. Clear all other selections. Click OK.
6. You are now back to the Windows Components Wizard; click Next.
7. When prompted, insert the CD and click OK. Windows will copy files to the hard drive and begin configuring Internet Information Services. If a Windows 2000 CD window opens, click Exit to close it.
8. Click Finish. Remove the CD and close the Add/Remove Programs and Control Panel windows.
P2000 Prerequisites Installation: Part I

P2000 Prerequisites are required for both Server and Workstation. This section describes P2000 prerequisites installation on the server.

The prerequisite program will check the operating system and evaluate which of the updates need to be installed. When you run the first P2000 Prerequisites CD, only the required updates will be displayed in the selection list.

Several prerequisites must be installed before the SQL Server installation. After the SQL Server installation, the SQL Service Pack must be installed.

---

**NOTE**

Reboot(s) may occur during installation. Log in as the system administrator after each reboot.

---

You will need:

- P2000 Prerequisites CDs, version 3.8

➤ **To install the updates:**

1. Log on as the system administrator.
2. Insert the first Prerequisites CD to start Autorun.
3. In the Welcome screen click **Next**.
4. Select the **P2000 Server** radio button and click **Next**.
5. The prerequisites program will check the system and evaluate which updates are needed. Follow the prompts to install all prerequisites from the first CD.

6. You may be asked to insert the second and/or third Prerequisites CD. Follow the prompts to install the next required update.

7. After each prerequisite installed from the second or third CD, insert the first CD again to start Autorun. (You may need to launch the program manually by double-clicking the setup.exe file.) Follow the prompts.

8. Repeat steps 6-7 until all required updates have been installed. This will be indicated by the following screen:

9. Click Next. The installer will close.

10. Remove the CD.

SQL SERVER 2000 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. To continue, you must be logged on as the system administrator.

You will need:

- SQL Server 2000 - Standard Edition CD
To install SQL Server 2000 Standard Edition:

1. Insert the SQL Server 2000 Standard Edition CD.
2. In the Welcome screen, click the SQL Server 2000 Components button.
3. Click the Install Database Server button.
4. In the Welcome screen, click Next.
5. In the Computer Name window, verify that the Local Computer radio button is selected; click Next.
6. In the Installation Selection window, verify that the button Create a new instance of SQL Server, or install Client Tools is selected; click Next.
7. In the User Information window, fill in the Name and Company fields; click Next.

NOTE

The information entered here should match the information entered during Windows 2000 installation (see step 3 on page 2-25).

8. Read the license agreement and accept it by clicking Yes.
9. Enter your 25-digit CD key number found on the back of your CD case; click Next.
10. In the installation Definitions window, verify that the Server and Client Tools radio button is selected; click Next.
11. In the Instance Name window, verify that the Default checkbox is selected; click Next.
12. In the Setup Type window, verify that the Typical radio button is selected and click Next.

To set up services accounts:

1. In the Services Accounts window, verify that the following radio buttons are selected:
   Use the same account for each service. Auto start SQL Service, and Use the Local System account.
   Click Next.
2. In the Authentication Mode window, select the radio button for Mixed Mode (Windows Authentication and SQL Server Authentication). Enter and confirm the password (master), and click Next.
3. Click Next to start copying files.
4. In the Choose Licensing Mode window, specify the number of devices depending on the license you have; click Continue.
5. Wait while Setup performs several operations. This will take 5-10 minutes. When the process is completed, click Finish.
6. Manually restart the computer. When the computer restarts, log on as the system administrator.
P2000 PREREQUISITES INSTALLATION: PART II

The prerequisite program will check the system and evaluate which of the remaining updates need to be installed. When you run the first P2000 Prerequisites CD, only the required update(s) will be displayed in the selection list.

You will need:

- P2000 Prerequisites CDs, version 3.8

➤ To install the updates:

1. Log on as the system administrator.
2. Insert the first Prerequisites CD to start Autorun. (You may need to launch the program manually by double-clicking the setup.exe file.)
3. In the Welcome screen click Next.
4. Select the P2000 Server radio button and click Next.
5. The prerequisites program will check the system and evaluate if the SQL Service Pack needs to be installed. Follow the prompts until the following screen indicates no further prerequisites are needed:

6. Click **Next**. The installer will close.
7. Remove the CD.

You are now ready to proceed to *Chapter 4: Software Installation*. 
SOFTWARE UPGRADE

This chapter provides instructions for upgrading P2000 software to version 3.8 (for new installations, refer to Chapter 4: Software Installation). Once the software upgrade is installed, refer to your P2000 Software User Manual for complete software operation instructions.

You can also re-install P2000 software version 3.8 in order to add options not previously installed. When re-installing the P2000 software, select both the components you want to add as well as those that you had before but want to keep. Observe all recommendations as listed in the “Prior to Upgrading - All Systems” section on page 3-4.

The same P2000 Software CD is used to upgrade the software on the P2000 server and at the P2000 workstations. Perform the upgrade on the server before you upgrade the workstations.

NOTE
Unless otherwise noted, all information in this chapter specific to Windows Server 2003 also applies to Windows Server 2003 R2.

UPGRADING P2000 SOFTWARE ON THE SERVER

Depending on the software version you are upgrading from, observe the notes and recommendations as listed below. If you are ready to proceed with the upgrade, go to “P2000 Prerequisites Installation on the Server” on page 3-7.

Important Notes Before the P2000 Upgrade

Review the notes below carefully to avoid making errors and losing valuable data.

P2000 Software Upgrade From Versions 2.3 and Earlier

Alarm Filter

Alarm Filter is no longer available; a Message Filtering feature has been introduced. During upgrade, the Alarm Filter settings will be lost. Therefore, run the Alarm Filter Report before the upgrade. Print the current Alarm Filter configuration for reference and, after the upgrade, manually re-apply the settings to Message Filtering. See the P2000 Software User Manual for instructions.
**BACnet Interface**

All panels are by default disabled for BACnet Interface. After the upgrade you need to manually adjust the settings for every panel that needs to be BACnet Interface enabled by selecting the **Enabled for BACnet Interface** check box in the Edit Panel window, under the **General** tab.

**CCTV Server**

If you were using CCTV Server, un-install it before the upgrade.

**Custom Reports**

The P2000 version 3.8 software uses Crystal Reports version 9.0 or higher. All custom reports created in versions 2.3 and earlier need to be opened and saved in Crystal Reports version 9.0 or higher. Any customized (manually edited) queries need to be re-built in Crystal Reports version 9.0 or higher.

In addition, there is a database structure change between P2000 version 2.3 and 3.8, which impacts the Badge and Cardholder records and related custom reports.

For detailed information, refer to the Crystal Reports documentation and the *P2000 Software User Manual*.

**P2000 Integrated Video Imaging**

P2000 software versions prior to 3.4 have been using the ID Server. During an upgrade from those versions to version 3.8, you will be presented with two Video Imaging software choices: ID Server and EPI Builder.

If you select **ID Server**, the Integrated Video Imaging option will continue to use the ID Server software, and ID Setup will be upgraded to the version currently integrated with P2000.

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

For more details regarding this option, see the *P2000/P2000LE Integrated Video Imaging Installation and Operation Manual*.

**CK720/705 and CK721 Panels**

After the upgrade, any CK720/705 and CK721 panels previously configured as version 2.1+ or 2.2+ may need to be manually re-configured at the host to match the panel type and version. See the *P2000 Software User Manual* for further instructions.

**P2000 Software Upgrade From Versions 2.5**

**BACnet Interface**

After the upgrade, all panels, terminals, input points, and output points will be enabled for those panels that were enabled for BACnet Interface in version 2.5. If you wish to disable any terminals, input points or output points for specific panels, you will have to manually disable them using the Edit Panel dialog.
Custom Reports

There is a database structure change between P2000 version 2.5 and 3.8, which impacts the Badge and Cardholder records and related custom reports.

P2000 Integrated Video Imaging

P2000 software versions prior to 3.4 have been using the ID Server. During an upgrade from those versions to version 3.8, you will be presented with two Video Imaging software choices: ID Server and EPI Builder.

If you select ID Server, the Integrated Video Imaging option will continue to use the ID Server software, and ID Setup will be upgraded to the version currently integrated with P2000.

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

For more details regarding this option, see the P2000/P2000LE Integrated Video Imaging Installation and Operation Manual.

CK720/705 and CK721 Panels

After the upgrade, any CK720/705 and CK721 panels previously configured as version 2.1+ or 2.2+ may need to be manually re-configured at the host to match the panel type and version. See the P2000 Software User Manual for further instructions.

P2000 Software Upgrade From Versions 3.0 and Higher

MSEA

If previously installed, the following MSEA components need to be manually removed prior to upgrade:

- P2000 G3 WS
- P2000 G3 Event Repository
- P2000 G3 Item

For un-installing, use the Add/Remove Programs utility.

P2000 Integrated Video Imaging

During an upgrade to version 3.8, you will be presented with two Video Imaging software choices: ID Server and EPI builder.

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

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

For more details regarding this option, see the P2000/P2000LE Integrated Video Imaging Installation and Operation Manual.
CK720/705 and CK721 Panels

After the upgrade, any CK720/705 and CK721 panels previously configured as version 2.4+ or 2.5+ may need to be manually re-configured at the host to match the panel type and version. See the P2000 Software User Manual for further instructions.

Prior to Upgrading - All Systems

When upgrading the software, follow this sequence:

- Obtain the new registration key.
- Log off the P2000 workstations and stop all P2000 services.
- Install the appropriate P2000 Prerequisites (the system will detect and display which prerequisites are required).

Then proceed with the upgrade.

Optional: The following components are no longer used in P2000 version 3.8 and, if previously installed, can now be removed using the Windows Add/Remove Programs utility:

- JCI.P2000.ThinClient
- M-Authorize
- M-Graphics
- M-Password
- Web Site
- Web Services

Obtaining the New Registration Key

You are required to get a new Registration Key for the P2000 version 3.8 before you begin the upgrade. Without the key you will not be able to complete the upgrade.

To retrieve the Installation Key and obtain a new one:

1. Go to Start>Programs>Johnson Controls>P2000>Register. (With older P2000 versions the path may be: Start>Programs>Johnson Controls>Pegasys 2000>Register.)
2. E-mail the following information to software.manufacturing@jci.com:
   - The Installation Key number (it is recommended that you cut and paste the number to avoid mistakes).
   - 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 an e-mail with new Registration Key, keep it handy for use during the upgrade.

   To view the serial number:

   1. From the P2000 Main menu select Config>System.
   2. If prompted, 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.

Stopping P2000 Services and Logging off Workstations

Before you begin actual procedures, you will be required to log off all workstations.

   To stop all services:

   1. From the P2000 Main menu, select System>Service Control.
   2. If prompted, enter the password (master) and click OK.
   3. In the Service Control window, click the All button.
   4. Click Stop and then click Done.
To log off all workstations:

1. Select **System>Workstation Status** from the P2000 Main menu to determine which workstations are logged on.
2. Click **Done** to exit Workstation Status.
3. Select **Exit>Exit** from the P2000 Main menu.
4. Click **Yes** to log out.

**Un-Installing the CCTV Server**

Performed this procedure **prior to the upgrade** from P2000 version 2.3 or earlier.

To un-install the CCTV Server:

1. Go to **Start>Settings>Control Panel**.
2. Double-click the **Add/Remove Programs** icon.
3. Select **CCTV Server**.
4. Click **Change/Remove** and then click **Yes**.
5. Click **Yes to all** and then click **Yes**.
6. When the component is un-installed, click **OK**.
7. Close the Add/Remove Programs window.
8. Reboot the computer.

**Un-Installing G3 Components**

Performed this procedure **prior to the upgrade**.

To un-install the components before the upgrade:

1. Go to **Start>Settings>Control Panel**.
2. Double-click the **Add/Remove Programs** icon.
3. Select one of the following components to be removed (which components will are present depends on the software version and the of options installed):
   - P2000 G3 WS
   - P2000 G3 Event Repository
   - P2000 G3 Item
4. Click **Change/Remove** and then click **Yes**.
5. When the component is un-installed, click **OK**.
6. Repeat steps 3-5 for until all components are removed.
7. Close the Add/Remove Programs window.
P2000 Prerequisites Installation on the Server

The installation procedure is the same as for regular installation (some updates may be omitted if they are already installed on your system).

➢ To install the updates:

1. Log on as the system administrator.
2. Insert the first Prerequisites CD to start Autorun.
3. In the Welcome screen click Next.
4. Select the P2000 Server radio button and click Next.

5. The prerequisites program will check the system and evaluate which updates are needed. Follow the prompts to install all prerequisites from the first CD.
6. You may be asked to insert the second and/or third Prerequisites CD. Follow the prompts to install the next required update.
7. After each prerequisite installed from the second or third CD, insert the first CD again to start Autorun. (You may need to launch the program manually by double-clicking the setup.exe file.). Follow the prompts.
8. Repeat steps 6-7 until all required updates have been installed. This will be indicated by the following screen:

![Software Upgrade P2000 Software Installation](image)

9. Click Next. The installer will close.

10. Remove the CD.

**P2000 Software Upgrade on the Server**

At this point, you will have already installed P2000 Prerequisites 3.8 and already have a valid Registration Key #. *The Registration Key is necessary to perform the upgrade.*

You need to be logged on as Administrator.

**P2000 Software Installation**

You will need:

- P2000 Software CD, version 3.8

➢ To install the P2000 software on the server:

You need to be logged on as Administrator.

1. Insert the P2000 Software CD into the drive to start Autorun.
2. When the CARDKEY P2000 Setup window appears, click Next.
3. Read the license agreement; click Yes to accept it.
4. In the next window, select **Server** and click **Next**.

5. Verify that the check boxes for Redundancy are **not** selected; click **Next**.

   (For P2000 installation on a redundant system, refer to the documentation provided when you purchase the Redundancy option).

6. Enter the name for the P2000 Database Server; click **Next**.

---

**NOTE**

*Depending on your system configuration, you may be asked to enter this information later in the installation process.*

---

7. Verify that the **P2000 Server** check box is selected. Make remaining selections depending on the server features you intend to use and the purchased options:

   - **CCTV and AV Server** - Select this check box if you intend to use CCTV and/or AV option.

   - **RRAS Interface Service** - RRAS (Routing and Remote Access Service) is used with the Dial-Up feature. Select the check box only if you intend to use this feature and you are running Windows 2000 Server operating system.

     If you are going to use Dial-Up on a system running Windows Server 2003, leave the check box not selected.

     If you are not going to use Dial-Up, also leave the check box not selected.

   - **Metasys Integration** - Select this check box if you intend to use the Metasys option. If selected, the Metasys system extended architecture and BACnet Services are installed by default. If you do not want to install one of them, click the + sign to expand the entry and un-select the **BACnet Service** or the **MSEA Service** (Metasys system extended architecture) check box.

   - **P2000 Web Access** - Select this check box to install files required for Web Access.

   - **OSI Interface** - Select this check box to install the OSI elements. (The OSI Interface requires SQL Server 2005 Express Edition).

   Click **Next**.

---

**NOTE**

*Other options, including compliance with FDA requirements, do not require separate installation steps. They will be activated when you register the P2000 software.*

---
8. Verify that the **P2000 Client** check box is selected. In addition, if *this* computer is also to be used as a workstation, select the check boxes for the options you purchased and intend to use on this workstation:

- **Badging** - This selection will install the Integrated Video Imaging option along with all other workstation capabilities.
- **MSEA Client** - This selection will install the files for the Metasys system extended architecture option. If you have selected Metasys Integration in the previous step, this check box will be selected by default.
- **AV Codecs** - This selection will install the files necessary for integration between P2000 and Digital Video Recording (DVR).
- **Tutorial Files** - This selection will install the files necessary to view the P2000 Tutorial, which presents an overview of the P2000 security system’s major features and options. It also covers a number of system configuration, installation, and troubleshooting tips.

Click **Next**.

9. If you have selected **Badging** in step 8, choose the Video Imaging software: **ID Server** or **EPI Builder**:

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

Click **Next**.

10. 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).*

---

11. The following screen appears if the installation program detects an older version of P2000 (like during an upgrade from previous versions of the software).

Enter the new Reg Key to upgrade to version 3.8. It is strongly recommended that you *cut and paste* the number as received via e-mail. Click **Next**.
12. If asked, enter the Site Name (the name will uniquely identify the P2000 site within the P2000 Enterprise System); click Next.

13. 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

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

15. Windows Server 2003 only: If you had not 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.

16. The system will display current settings. Click Next to begin copying files. This will take a few minutes.

➢ To complete the P2000 installation:

1. Remove the P2000 Software CD and click Finish to restart the computer.

2. When the computer restarts, log on as the System Administrator and continue with the startup.
To start up P2000:

1. Log on as the System Administrator on Windows 2000.
2. Double-click the 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.

UPGRADING P2000 SOFTWARE ON THE WORKSTATION

P2000 Prerequisites Installation on the Workstation

The installation procedure is the same as for regular installation (some updates may be omitted if they are already installed on your system). Refer to “P2000 Prerequisites Installation on the Workstation” on page 4-13 for details.

P2000 Software Upgrade on the Workstation

This procedure is identical to the P2000 software installation on a Workstation. Refer to “P2000 Software Installation on the Workstation” on page 4-14 for details.
SOFTWARE INSTALLATION

This chapter describes the P2000 Software installation as well as registration details and procedures on adding/removing options after the P2000 software has been installed. It is assumed that all P2000 prerequisites have been installed at this point (see Chapter 2: Server Setup).

NOTE
Unless otherwise noted, all information in this chapter specific to Windows Server 2003 also applies to Windows Server 2003 R2.

SOFTWARE INSTALLATION ON THE SERVER

Load the system software 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 P2000” on page 4-11) If you do not enter the Registration Key, the communication between the server and with the panels and workstations will terminate on the 10th day after the initial installation.

P2000 Software Installation

You will need:
- P2000 Software CD, version 3.8

➢ To install the P2000 software on the server:

You need to be logged on as Administrator.

1. Insert the P2000 Software CD into the drive to start Autorun.
2. When the CARDKEY P2000 Setup window appears, click Next.
3. Read the license agreement; click **Yes** to accept it.
4. In the next window, select **Server** and click **Next**.

5. Verify that the check boxes for Redundancy are *not* selected; click **Next**.
   (For P2000 installation on a redundant system, refer to the documentation provided when you purchase the Redundancy option).
6. Enter the name for the P2000 Database Server; click Next.

**NOTE**
*Depending on your system configuration, you may be asked to enter this information later in the installation process.*

7. Verify that the **P2000 Server** check box is selected. Make remaining selections depending on the server features you intend to use and the purchased options:

- **CCTV and AV Server** - Select this check box if you intend to use CCTV and/or AV option.

- **RRAS Interface Service** - RRAS (Routing and Remote Access Service) is used with the Dial-Up feature. Select the check box only if you intend to use this feature and you are running Windows 2000 Server operating system.
  
  If you are going to use Dial-Up on a system running Windows Server 2003, leave the check box not selected.
  
  If you are not going to use Dial-Up, also leave the check box not selected.

- **Metasys Integration** - Select this check box if you intend to use the Metasys option. If selected, the Metasys system extended architecture and BACnet Services are installed by default. If you do not want to install one of them, click the + sign to expand the entry and un-select the **BACnet Service** or the **MSEA Service** (Metasys system extended architecture) check box.

- **P2000 Web Access** - Select this check box to install files required for Web Access.
- **OSI Interface** - Select this check box to install the OSI elements. (The OSI Interface requires SQL Server 2005 Express Edition).

Click Next.

![Software Installation Interface](image)

**NOTE**
*Other options, including compliance with FDA requirements, do not require separate installation steps. They will be activated when you register the P2000 software.*

8. Verify that the P2000 Client check box is selected. In addition, if this computer is also to be used as a workstation, select the check boxes for the options you purchased and intend to use on this workstation:

- **Badging** - This selection will install the Integrated Video Imaging option along with all other workstation capabilities.

- **MSEA Client** - This selection will install the files for the Metasys system extended architecture option. If you have selected Metasys Integration in the previous step, this checkbox will be selected by default.

- **AV Codecs** - This selection will install the files necessary for integration between P2000 and Digital Video Recording (DVR).

- **Tutorial Files** - This selection will install the files necessary to view the P2000 Tutorial, which presents an overview of the P2000 security system’s major features and options. It also covers a number of system configuration, installation, and troubleshooting tips.

Click Next.
9. If you have selected **Badging** in step 8, choose the Video Imaging software: **ID Server** or **EPI Builder**:  
   - If you select **ID Server**, the Integrated Video Imaging option using the ID Server software will be installed.  
   - If you select **EPI Builder**, the Integrated Video Imaging option using the EPI Builder software will be installed.

Click **Next**.
10. 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).

11. To accept the default installation folder for the P2000 components, click Next.
12. Enter the **Site Name** (the name will uniquely identify the P2000 site within the P2000 Enterprise System); click **Next**.

13. 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**.
14. To set this server as the Authoritative Time Server (for synchronizing time with another computer or the internet), select Yes and click Next.

15. Windows Server 2003 only: If you had not 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.
16. The system will display current settings. Click **Next** to begin copying files. This will take a few minutes.

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**To complete the P2000 installation:**

1. The following window informs you about successful installation and displays the Installation Key number. (You can also access the number later, as described in “Registering P2000” on page 4-11.) Click **OK**.
2. Remove the P2000 Software CD and click **Finish** to restart the computer.

3. When the computer restarts, log on as the System Administrator and continue with the startup.

**Registering P2000**

**NOTE**

*The Installation Key is connected to the hardware, and therefore a hard drive failure could result in having to request a new license.*

► **To register P2000:**

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

2. E-mail the following information to software.manufacturing@jci.com:
   - The Installation Key number (it is recommended that you *cut and paste* the number to avoid mistakes).
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>Register**.

4. **Cut and paste** the number you have received into the **New Registration Key** field in the Register dialog box, click **OK**.

5. Click **Yes** to restart the computer.

**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 as the System Administrator.

2. Double-click the **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

When installing the Workstation software, follow the sequence below:

- P2000 Prerequisites Installation on the Workstation
- P2000 Software Installation on the Workstation

P2000 Prerequisites Installation on the Workstation

The prerequisite program will check the operating system and evaluate which of the updates need to be installed. When you run the first P2000 Prerequisites CD, only the required updates will be displayed in the selection list.

NOTE
Several reboots may occur during installation. Log in as the system administrator after each reboot.

You will need:

- P2000 Prerequisites CDs, version 3.8

➢ To install the updates:

1. Log on as the system administrator.
2. Insert the first Prerequisites CD to start Autorun.
3. In the Welcome screen click Next.
4. Select the **P2000 Workstation** radio button and click Next.
5. The prerequisites program will check the system and evaluate which updates are needed. Follow the prompts to install all prerequisites from the first CD.

6. You may be asked to insert the second and/or third Prerequisites CD. Follow the prompts to install the next required update.

7. After each prerequisite installed from the second or third CD, insert the first CD again to start Autorun. (You may need to launch the program manually by double-clicking the setup.exe file.) Follow the prompts.

8. Repeat steps 6-7 until all required updates have been installed. This will be indicated by the following screen:

9. Click Next. The installer will close.

10. Remove the CD.

Proceed to “P2000 Software Installation on the Workstation” below.

P2000 Software Installation on the Workstation

You will need:

- P2000 Software CD, version 3.8

➢ To install P2000 on the Workstation:

1. Insert the P2000 Software CD into the drive to start Autorun.
2. When the CARDKEY P2000 Setup window appears, click **Next**.

3. Read the license agreement; click **Yes** to accept it.
4. In the next screen, select **Workstation** and click **Next**.

5. If you have purchased the P2000 Remote Redundancy option and want to control redundancy functions from this workstation, select the **Double-Take Redundancy** check box. Otherwise, leave it un-checked. Click **Next**.
NOTE
Setting up a workstation to control Remote Redundancy functions requires additional steps beside the P2000 installation. For detailed information, refer to the P2000 Remote Redundancy with NSI Double-Take manual.

6. The **P2000 Client** check box is selected by default. In addition, select the check boxes for the options you purchased and intend to use on this workstation:

- **Badging** - This selection will enable Integrated Video Imaging along with all other workstation capabilities. (You must need to have purchased the Integrated Video Imaging option.)
- **MSEA Client** - This selection will install the files for the Metasys system extended architecture option.
- **Tutorial Files** - This selection will install the files necessary to view the P2000 Tutorial, which presents an overview of the P2000 security system’s major features and options. It also covers a number of system configuration, installation, and troubleshooting tips.

Click **Next**.

7. If you have selected **Badging** in step 6, choose the Video Imaging software: **ID Server** or **EPI Builder**.

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

   If you select **EPI Builder**, the Integrated Video Imaging option using the EPI Builder software will be installed.
8. 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).*
9. Verify the installation path for the P2000 files; click **Next**

![Verify installation path](image1)

10. Enter the name of the P2000 Database Server; click **Next**.

![Enter database server name](image2)
11. The P2000 system requires a mechanism to synchronize time between the server and the workstations.

If the P2000 server had been configured as the SNTP server, select **Use the P2000 server as the time source**; otherwise select **Use a different SNTP (Time) server**.

Click **Next**.

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**NOTE**

You can select **Do not change the time configuration settings for this workstation** and proceed with the installation. However, you must later manually configure this workstation with time synchronization method. If you select this option, two information screens will be displayed to confirm your choice and remind you of time synchronization requirement.

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12. If you had selected **Use a different SNTP (Time) server** in previous step, you will be asked to specify the name or IP address of an SNTP server to be used for time synchronization. Enter the server’s name or IP address and click **Next**.
13. The system will display current settings. Click **Next** to begin copying files. This will take a few minutes.
14. Verify that the **Yes, I want to restart my computer now** radio button is selected and click **Finish**.

![Software Installation Screen](image)

15. Remove the P2000 Software CD.

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

**Logging on to FDA-Compliant P2000 Workstations**

If your P2000 system is in compliance with the FDA requirements, the first time you log on to the P2000 Workstation, you will get a message about the required change of screen saver settings. Click **Yes** to this message.

FDA compliance requires that the workstation be protected from unauthorized access by a P2000 screen saver with a password policy.

**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.

- In Windows 2000, “guest user” login is enabled by default. When using a Windows XP workstation, the 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 redirect the workstation to communicate with that server name.

NOTE
It is recommended that a copy of the operating system be made and stored in case of hard drive failure.

➢ To change the name of the Server in the Workstation Settings:

This procedure changes the name of P2000 Database and Communications Server as well as CCTV Server.

1. Go to C:\Program Files\Johnson Controls\CARDKEY P2000\bin.
2. Double-click the icon for the dsnswitch.exe.
3. The DSN Switcher dialog box appears.

4. In the Switch P2000 database server to: field, change the Server Name from “P2000” to the computer name of your P2000 Server.
5. Click OK to save your settings.

UN-INSTALLING P2000 AND RELATED SOFTWARE

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

Un-Installing P2000

Prior to un-installing P2000:

- Back up the Web Access files located in webroot/p2ktc/config directory and its subdirectories.
- Log off from P2000.
NOTE

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

➢ To un-install P2000 on the Server:

1. Go to Start> Settings> Control Panel, double-click Add/Remove Programs, select Cardkey P2000 and click Change/Remove.
2. When the Wizard starts, click Yes to proceed with un-installing.
3. Database: Decide whether you want to un-install P2000 database; choose Yes or No. To un-install the P2000 database, P2000 services need to be stopped.
4. Badge image layouts: Decide whether you want to delete badge image layouts; choose Yes or No.
5. User Groups: Decide whether you want to delete P2000 user groups; choose Yes or No.
6. Dial-Up accounts: Decide whether you want to un-install accounts created by P2000 Dial-Up; choose Yes or No.
7. Wait while the system completes the un-install.
8. When asked whether to delete shared files, select the Don’t display this message again check box and click Yes.
9. Verify that the Yes, I want to restart my computer now radio button is selected and click Finish.

➢ To un-install P2000 on the Workstation:

1. Go to Start> Settings> Control Panel, double-click Add/Remove Programs, select Cardkey P2000 and click Change/Remove.
2. When the Wizard starts, click Yes to proceed with un-installing.
3. Wait while the system completes the un-install.
4. Click Finish to restart the computer.

Un-Installing Related Software

The following software needs to be un-installed separately:

- EPI Builder
- OSI Web Services
- P2000 G3 WS
- P2000 G3 Event Repository
- P2000 G3 Item

For un-installing, use the Add/Remove Programs utility.