

NetBotz 420 Quick Start

This Quick Start guide is designed to provide all the information you need to install your appliance. It also includes instructions on how to configure the network settings for your appliance, and then complete the installation. Instructions for the optional installation and configuration of a supported wireless network adapter with your appliance are included as well.

This Quick Start guide also includes a brief overview of the NetBotz Configuration Wizard. This simple to use wizard enables you to begin using your appliance to protect your critical assets and spaces in almost no time. The Configuration Wizard runs automatically each time you start the Advanced View until appliance configuration is complete. It can be run at will later by selecting **Configuration Wizard** from the Advanced View **Tools** pull-down menu.



Finally, this Quick Start guide includes NetBotz Quick Configuration, a series of simple, step-by-step procedures that you can use to activate your appliance's pre-configured thresholds and alert actions. Like the Configuration Wizard, these procedures are designed to get your appliance up and running. However, the NetBotz Quick Configuration procedures also provide more experienced users with a self-guided tour of the basic appliance configuration tasks.

Your NetBotz 420 is a single, integrated unit, with a variety of ports and connections as well as a camera and several environmental sensors housed within a sturdy case. Detailed information about your NetBotz 420 can be found in the *About Your Appliance* book that is included with your appliance.

About This Quick Start Guide

The instructions provided in this Quick Start provide brief, step-by-step instructions that are intended for typical appliance installations. For more detailed installation instructions and appliance information, please refer to the *About Your Appliance* book.

Preparing for Installation

Before installing your appliance, you will need to perform some or all of the following tasks:

- Install a wireless network adapter (if desired)
- Configure your appliance's network settings

Instructions for each of these procedures follow.

Install a Wireless Network Adapter

You can enhance the network communication capabilities of your NetBotz 420 by installing a supported wireless network CompactFlash adapter in the CompactFlash slot. If you are not installing a wireless network adapter at this time, skip to “Configure Appliance Network Settings” on page 3.

The following wireless network adapters are supported for use with the NetBotz 420:

- D-Link DCF-660W
- Linksys WCF12

To install a wireless network adapter in the CompactFlash slot, slide the adapter into the CompactFlash slot on your appliance. To ensure that the adapter is properly inserted, gently but firmly press the adapter into place.



Note

The CompactFlash must be inserted into the slot with the front of the CompactFlash (typically featuring the name of the card as well as the manufacturer's logo) facing “down” or toward the back of the NetBotz 420. The back of the CompactFlash (typically featuring technical data about the CompactFlash, serial number, etc.) must face “up” or toward the front of the NetBotz 420.

Configure Appliance Network Settings

Before installing your appliance you must first configure your appliance's network settings. By default, your appliance is configured to obtain its network settings using DHCP. Alternatively, you can use the Serial Configuration Utility to specify network settings (including IP address, gateway address, subnet mask, hostname, NAT proxy, and speed and duplex settings) to be used by the appliance.

Obtaining Network Settings Using DHCP

By default, your appliance is configured to attempt to obtain its network settings using DHCP. When you connect the appliance to your network and power it on, it automatically attempts to contact a DHCP server. The appliance will wait 30 seconds for a response. If the DHCP server is configured to provide a hostname the appliance will request either its configured hostname or 'netbotzxxxxxx' (where xxxxxx is the last 6 digits of the appliance serial number) as a hostname to be associated with the IP address granted by the DHCP server, enabling you to use a web browser to connect to the appliance at the <http://netbotzxxxxxx> without any additional configuration necessary. The appliance will also request DNS server addresses, DNS domain, SMTP server addresses, and NTP server addresses from the DHCP server.

Installing the Serial Configuration Utility and Other Programs

The Serial Configuration Utility is a Java-based application that you can use to configure the network settings on your NetBotz 420 or any other NetBotz appliance. Use the *NetBotz Installer* CD to install the Serial Configuration Utility, as well as the Advanced View (the monitoring and management console for your NetBotz 420) and the Java Runtime Environment (JRE) on your system before continuing.

Windows Systems

To install the applications and the JRE on a supported Windows system, place the *NetBotz Installer* CD-ROM in the CD-ROM drive of the system that you will use to configure and manage your appliance. The NetBotz Installer will start automatically. If you have disabled Autostart on your system, click **Start** > **Run**, type `x:\install.exe` in the **Open** field (where *x* is the drive letter assigned to your CD-ROM drive) and then click **OK**. Then, follow the prompts to complete the installation of your software.

Linux and Solaris Systems

To install the applications and the JRE on a supported Linux or Solaris system, place the *NetBotz Installer* CD-ROM in the CD-ROM drive of the system that you will use to configure and manage your NetBotz appliance. Be sure to mount the drive if necessary. Then, run `install.bin` from the Linux or Solaris subdirectory on the CD. For example, if you are using Linux and you mounted the CD-ROM drive as `/mnt/cdrom`, execute the following command:

```
sh /mnt/cdrom/linux/install.bin
```

Follow the prompts to complete the installation of your software.

Configuring Network Settings using the Serial Configuration Utility

To configure your appliance using the Serial Configuration Utility:

1. Click **Start > Programs > NetBotz > Serial Configuration > Serial Configuration Utility** to start the Serial Configuration Utility.
2. Connect one end of the null modem cable to a serial connector on your system and the other end of the cable to the serial port on the NetBotz appliance.
3. If you will be obtaining network settings using DHCP, plug an Ethernet cable into the Ethernet socket, and then connect the Ethernet cable to an Ethernet wall jack or hub.
4. Plug the NetBotz appliance power supply into a wall outlet, and then connect it to the power cord connection. The Status LED will illuminate for 2-3 seconds immediately after you connect power to the appliance, and then go dark. When the appliance is finished starting up (the process can take as long as 2 minutes, depending on appliance configuration), the Status LED will illuminate again. Once the Status LED is illuminated again click **Next** to continue.
5. The Serial Configuration Utility automatically scans your systems COM ports to determine if a NetBotz appliance is connected to the system. If a NetBotz appliance is discovered the utility will note the presence of the appliance in the Device column of the window. Select the radio button that corresponds to the appliance you wish to configure and then click

Next to continue configuring your appliance.



Note

If the COM port associated with the port to which your serial cable is connected is currently in use by another application, the message beside the COM port in the **Owner** column will indicate that the port is not currently available. To correct this, close the application that is using the COM port and then click **Scan Serial Ports**.

6. The Root Password window appears. Type in the **Password** field the administrator account password for this appliance (by default this password is set to “netbotz”) and then click **OK**.
7. Specify whether you want to use DHCP to specify your appliance network settings. Click **Yes** or **No**, and then click **Next** to continue.
8. The utility scans the appliance and displays the network settings (IP Address, Netmask, and Gateway) that are currently stored on the appliance.
 - If you **have not** installed a wireless network adapter, see “Ethernet Network Interface Configuration” on page 5.
 - If you **have** installed a wireless network adapter, see “Wireless Network Interface Configuration” on page 6.

Ethernet Network Interface Configuration

To continue configuring your appliance using the Serial Configuration Utility:

1. Specify the Ethernet Card settings.
 - To configure your appliance to use network settings assigned by a DHCP server select the **Configure automatically via DHCP** radio button.
 - To specify network settings for use by this appliance, select the **Configure using these settings** radio button and then provide an IP address, subnet mask, and gateway address for the appliance. If desired, specify a NAT proxy name or IP address that will be used by a NAT Proxy server in your network to enable users to connect to the appliance from outside the firewall. You can also specify speed and

duplex settings for use by this interface, or leave them set to Auto Negotiate (the default value).

2. Specify the DNS Settings.
 - To use DNS Settings that are provided by your DHCP server, check the Use DHCP DNS Settings check box.
 - To specify DNS Settings for this appliance manually uncheck the **Use DHCP DNS Settings** check box and then provide the desired domain and DNS server information.
3. Click **Next** to save your configuration settings. When the save process is complete you can click **Finish** to close the Serial Configuration Utility.
4. Test the NetBotz 420 IP connection. Start your web browser and type the IP address that was assigned to the appliance into the address field. Then, press **Enter**. If the appliance is online and properly configured the Basic View will be displayed in the browser window.

Wireless Network Interface Configuration

To continue configuring your appliance using the Serial Configuration Utility:

1. Because you have installed an additional network interface, (the wireless network adapter), an **Interface** selection list containing entries for both the built-in Ethernet interface **and** the Wireless Card appears at the top of the window. The currently assigned Hostname and IP address (if any) for each network interface is listed beside its selection list entry.
 - If you will not be using the Ethernet interface, disable the interface:
 - a. Select Ethernet Card from the **Interfaces** selection list and then click **Edit**.
 - b. Un-check the **Enable Interface** check box, and then click **OK** to save these settings and skip to “Configure the Wireless Card:” on page 7.
 - If you will be using the Ethernet interface in conjunction with your wireless network adapter, configure the **Ethernet Card**:
 - c. Select Ethernet Card from the **Interfaces** selection list and then click **Edit**.
 - d. Specify the Network settings.
 - To configure this interface to use network settings assigned by a DHCP server select the **Configure automatically via DHCP** radio button. If desired, specify a **Hostname** for the appliance and a NAT proxy name or IP address that will be used by a NAT Proxy server in your network to enable users to connect to the appliance from outside the firewall. You can also specify speed and duplex settings for use by this interface, or leave them set to Auto Negotiate (the default value).

- e. To specify network settings for use by this interface, select the **Configure using these settings** radio button and then provide an IP address, subnet mask, and gateway address for the appliance. If desired, specify a **Hostname** for the appliance and a NAT proxy name or IP address that will be used by a NAT Proxy server in your network to enable users to connect to the appliance from outside the firewall. You can also specify speed and duplex settings for use by this interface, or leave them set to Auto Negotiate (the default value).
 - b. Check the **Enable Interface** check box, and then click **OK** to save these settings and continue to “Configure the Wireless Card:” on page 7.
 - Configure the **Wireless Card**:
 - a. Select Wireless Card from the **Interfaces** selection list and then click **Edit**.
 - b. Specify the Network settings.
 - To configure this interface to use network settings assigned by a DHCP server select the **Configure automatically via DHCP** radio button. If desired, specify a **Hostname** for the appliance and a NAT proxy name or IP address that will be used by a NAT Proxy server in your network to enable users to connect to the appliance from outside the firewall.
 - To specify network settings for use by this interface, select the **Configure using these settings** radio button and then provide an IP address, subnet mask, and gateway address for the appliance. If desired, specify a **Hostname** for the appliance as well.
 - c. Specify the Wireless settings. You’ll need to specify the following values:
 - **ESS ID**: The Extended Service Set value shared by this appliance and other members of the wireless network.
 - **Mode**: Determines the wireless communication method to use within your wireless network. If your wireless network uses Wireless Access Points (WAPs), select **Managed**. If your wireless network does not use WAPs, select **Ad-Hoc**. If you are unsure of whether wireless access points are in use in your network, select **Automatic** and the adapter will attempt to determine if WAPs are present and self-determine its mode.
 - **Channel**: The wireless channel on which the adapter will communicate. Wireless networking clients and WAPs within an

ESS must be configured with the same ESS ID and the same channel.

- **Encryption:** Specify the type of encryption that will be used on the wireless transmissions. You can select **WEP**, **LEAP**, or **None**.
 - If you select **WEP**, you must also specify whether an **ASCII** or **Hex** WEP Key will be used, as well as the WEP **Key** value.
 - If you select **LEAP**, you must also specify the **LEAP Username** and **Password** that will be used.
- d. Check the **Enable Interface** check box, and then click **OK** to save these settings and continue.
3. Specify the DNS Settings.
 - To use DNS Settings that are provided by your DHCP server, check the **Use DHCP DNS Settings** check box.
 - To specify DNS Settings for this appliance manually uncheck the **Use DHCP DNS Settings** check box and then provide the desired domain and DNS server information.
 4. Click **Next** to save your configuration settings. When the save process is complete you can click **Finish** to close the Serial Configuration Utility.
 5. Test the NetBotz appliance IP connection. Start your web browser and type the IP address that was assigned to the appliance into the address field. Then, press **Enter**. If the NetBotz appliance is online and properly configured the Basic View will be displayed in the browser window.

Installing Your Appliance

You need the following parts (included with the appliance) to complete the following procedures:

- The NetBotz 420 wall or rack model appliance
- The power supply
- The Door Switch Sensor and its cable
- Black universal swivel wall mount (optional, included only with wall model appliances)

To install the NetBotz 420:

1. Mount the Door Switch Sensor that is included with the NetBotz. Complete these steps to mount the switch:
 - a. Measure the distance between the location where you intend to mount the switch and the location where you will install the NetBotz 420. Ensure that the Door Switch Sensor cable is long enough before continuing.
 - b. Using one of the included adhesive strips, attach the wired portion of the door switch to the door frame. When mounting this portion of the switch, ensure that the flat side of the switch is flush with the door frame.
 - c. Using another adhesive strip, mount the non-wired portion of the switch to the door. Be sure to mount the second piece of the switch so that when the door is closed the two portions of the switch are as close to each other as possible.



Note

Once both pieces of the door switch are mounted, there must be no more than 1/4" of space between the two pieces when the door is closed.

2. Install the NetBotz 420 rack model in your server rack, or mount the NetBotz 420 wall model to your wall.
 - If you will be installing a rack model appliance, using a screwdriver or a drill, mount the NetBotz 420 rack model to the rack. The screws needed to mount the NetBotz 420 rack model depend on your rack. Please refer to the documentation that came with your server rack for more information.
 - If you will be mounting a wall model appliance using the included black universal swivel wall mount:

- a. Select a location for the wall mount, and then use the included NetBotz swivel wall mount template to mark the locations in which the anchors need to be installed.
 - b. Install the screw anchors. Then, use the screws included with the wall mount to secure the wall mount to your wall. Be sure to use the included wall anchors and to tighten the screws enough to ensure that the appliance will be securely fastened to the wall. **Do not overtighten the screws.**
 - c. Using the bracket mount on the rear of the NetBotz 420, connect the appliance to the wall mount by screwing the NetBotz 420 onto the wall mount until it is snug.
 - d. Use the swivel points on the wall mount to orient the NetBotz so that it is pointed in the desired direction. When facing the bracket, you can rotate the appliance clockwise and counter-clockwise by turning the entire appliance; the post will rotate with the appliance. To swivel the appliance vertically, turn the knob on the bracket just below the point at which the appliance connects to the bracket, adjust the position of the appliance as desired, and then tighten the knob again.
 - If you will be mounting a wall model appliance flush against your wall:
 - a. Select a location and then use the included NetBotz 420 flush wall mount template to mark the locations in which the anchors need to be installed.
 - b. Install the screw anchors.
 - c. Screw one screw into each anchor until approximately 1/4" of each screw is exposed. Then, hang the NetBotz 420 on the screws.
3. Plug the power cord into the power socket. Note that the power cord is a locking power cord, and you will need to pull the plug sleeve back to unplug the cord.
 4. Connect the Door Switch Sensor to the Door Switch Sensor connection.
 5. If you will be using the Ethernet interface on your appliance, plug an Ethernet cable into the Ethernet socket and then connect the Ethernet cable to an Ethernet wall jack or hub.



Note

Be sure to connect the Ethernet socket on your appliance to an Ethernet network, using a standard RJ-45 Ethernet cable. Connecting the Ethernet socket to a powered telephone jack or using an incorrect cable type can cause permanent damage to your appliance.

6. Plug the power cord into a wall socket.

When you plug in the power cord, the appliance will perform a power-on test and will then begin to collect data. The LEDs on the appliance light up, the *Status* LED illuminates, and if the Ethernet connection is live the *Activity* LED should flicker with network traffic.

When you have completed the installation procedure, use a supported web browser to verify that the appliance is online. Start a supported web browser on any system in your network, enter the IP address of the appliance in the Address or Website field and then press **Enter**. If the NetBotz 420 is online, the Basic View appears.

The NetBotz Configuration Wizard

The NetBotz Configuration Wizard enables you to begin using your appliance to protect your critical assets and spaces in almost no time.

Your NetBotz appliance comes with pre-defined alert schedules, alert actions, and sensor thresholds. However, before these actions and thresholds can be used you must configure your appliance with additional information, such as DNS server settings and e-mail recipient addresses. The Configuration Wizard will enable you to quickly and easily configure the following settings on your appliance:

- Domain Name Server Settings
- Clock and Calendar Settings
- Region Settings
- Administrator User ID and Password
- E-Mail Settings
- E-Mail Alert Notification Recipients

The Configuration Wizard will also ensure that the latest available version of BotzWare is running on your appliance.

When you have finished configuring your appliance with the wizard your appliance will be monitoring your environment for dangerous temperatures, humidity levels, and dew point levels, for lack of adequate air flow, and will detect motion in the area in which the camera is located. If alert conditions are noted by any of these sensors, your NetBotz appliance will be able to notify you by sending an e-mail to a specified e-mail address.

The Configuration Wizard will run each time you use the Advanced View with your NetBotz appliance until you have either completed all of the steps in the Wizard or have checked the **Don't Show Configuration Wizard Next Time** check box. You can always re-run the Wizard by selecting **Configuration Wizard** from the Advanced View's **Tools** pull-down menu.

NetBotz Quick Configuration

Once you have successfully configured, installed, and powered on your NetBotz 420 appliance, use the Advanced View and the following procedures to activate it. After the NetBotz Quick Configuration tasks are complete, your NetBotz 420 will be ready to monitor your environment for physical threats and capable of immediately notifying you of problems as they occur.

Your NetBotz appliance comes with pre-defined alert schedules, alert actions, and sensor thresholds. However, before these actions and thresholds can be used you must configure your appliance with additional information, such as DNS server settings and e-mail recipient addresses.



Note

The following configuration instructions are intended for use with a single NetBotz 420, with no additional sensors or pods connected to the appliance.

When you have finished this configuration, your appliance will be monitoring your environment for dangerous temperatures, humidity levels, and dew point levels, for lack of adequate air flow, and will detect motion in the area in which the camera is located. If alert conditions are noted by any of these sensors, your NetBotz 420 will be able to notify you by sending an e-mail to your e-mail address.

The NetBotz Quick Configuration process is divided into 4 stages.

- **Stage I: Configure Appliance Settings:** Configure the appliance Clock, DNS, Region, Network Interface (hostname, NAT proxy, and speed and duplex settings), E-mail Servers, and Proxy settings.
- **Stage II: Configure Alert Actions:** Configure the Play Audio Alert and Primary E-mail Notification alert actions.
- **Stage III: Enable Sensor Thresholds:** Enable the pre-configured air flow sensor threshold and confirm that the temperature, humidity, and dew point sensor thresholds are enabled as well.
- **Stage IV: Enable Camera Thresholds:** Enable the pre-configured camera motion threshold.

Stage I: Configure Appliance Settings

In this stage, we will be configuring some of the appliance settings that are necessary for alert notification delivery and general functionality. If you need clarification on specific tasks click the Help button in the task window or consult the *Using Your Appliance* guide, included in PDF form on your *NetBotz Installer CD-ROM*.

Open the Advanced View and perform the following Appliance Settings tasks. The icons associated with each task are located in the Configuration pane, in the Appliance Settings region.

1. Set the Clock settings. By default, your NetBotz 420 will synchronize the system clock with the default NTP servers. If network access to these servers is not permitted, double-click on the **Clock** icon and then specify your NTP server address or to manually specify clock settings.
2. Set DNS settings. Double-click on the **DNS** icon and then specify the DNS Domain and at least one DNS Server address.
3. Set the Region settings. Double-click on the **Region** icon and then set Locale and time zone as needed. The default settings are US and Central Standard Time.
4. Specify a hostname for your appliance if necessary. Double-click on **Network Interfaces** and then specify a hostname for your appliance. If desired, specify a NAT proxy name or IP address that will be used by a NAT Proxy server in your network to enable users to connect to the appliance from outside the firewall. You can also specify speed and duplex settings for use by this interface, or leave them set to Auto Negotiate (the default value).
5. Assign a unique User ID and Password to the Administrator account on your NetBotz 420. By default, the Administrator account has a User ID/Password of netbotz/netbotz. To ensure security, double-click on the **Users** icon, double-click on **NetBotz Admin Account**, and then specify a unique User ID and password for the administrator account.
6. Set your E-mail Server settings. This specifies the e-mail server that your NetBotz 420 will use to deliver e-mail alert notifications. Double-click on the **E-mail Servers** icon, and then:
 - a. (Optional) Provide a **From** address.
 - b. Type in the **SMTP server** field the hostname or IP address of your SMTP server (for example, mail.yourcompany.com).
 - c. If necessary, specify a **Port** value. Default is 25.

- d. Select an **SSL option** for authentication and certificate verification. If you do not know what to do here, check with your network administrator.
 - e. Click **Test E-mail Server**, type in your e-mail address, and then click **OK**. An e-mail will be sent to the address entered when prompted. Confirm that you received the test e-mail and then continue.
7. (Optional). If your network uses an HTTP or Socks proxy server, double-click on the **Proxy** icon and specify your Proxy settings. If you are unsure whether you use an HTTP or Socks proxy check with your network administrator.

Stage II: Configure Alert Actions

In this stage we will configure one pre-defined Alert Actions (Primary E-mail Notification). Note that there are additional pre-defined alert actions that you can configure later, if desired. If you need clarification on specific tasks click the Help button in the task window or consult *Using Your Appliance*, included in PDF form on your *NetBotz Installer* CD-ROM.

Open the Advanced View and perform the following Pod/Alerts Settings tasks. The icons associated with each task are located in the Configuration pane, in the Pod/Alerts Settings region.

1. Open the Alert Actions task. Double-click on the **Alert Actions** icon to open the Alert Action Configuration window.
2. Select **Primary E-mail Notification** from the list of defined alert actions and then click **Edit**.
3. Click **Add...**, type your e-mail address in the Add E-mail Address window, and then click **OK**.
4. Click **OK** to close the Edit Alert Action window and continue.
5. Click **OK** to close the Alert Action Configuration window.

Your appliance is now configured to send an e-mail alert notification to your e-mail address when sensor thresholds are violated.

Stage III: Configure Sensor Thresholds

Next, we will enable the pre-defined air flow sensor threshold and confirm that the pre-defined temperature, humidity, and dew point sensor thresholds are enabled as well.

1. In the Configuration pane, in Pods/Sensor, double-click on the **Sensor Pods** icon.
2. In the Sensor Pod Configuration dialog, click **Sensors** to open the

Sensor Configuration window.

3. In the Sensors list (top half of the window), select **Air Flow**.
4. In the **Thresholds - Air Flow** field (bottom half of the window), select the threshold labeled **Default**. Note that the Default threshold is currently not enabled (its Enabled value is “No”). Click **Edit** to open the Edit Threshold window.
5. In the Edit Threshold window check the **Enabled** check box and then click **OK** to close the Edit Threshold window. Note that the Default threshold, in the **Thresholds - Air Flow** field, is now enabled (its Enabled value is “Yes”).
6. In the Sensors list (top half of the window), select **Dew Point**. Now, look in the **Thresholds - Dew Point** list (bottom half of window) and confirm that the Default dew point threshold is enabled.
7. In the Sensors list (top half of the window), select **Humidity**. Now, look in the **Thresholds - Humidity** list (bottom half of window) and confirm that the Default humidity threshold is enabled.
8. In the Sensors list (top half of the window), select **Temperature**. Now, look in the **Thresholds - Temperature** list (bottom half of window) and confirm that the Default temperature threshold is enabled.

The integrated air flow, dew point, humidity, and temperature sensors in your Sensor Pod 120 are now all configured to monitor for physical threats and to generate an alert if the monitored values violate their defined thresholds.

Stage IV: Configure Camera Thresholds

Finally, we will enable the pre-defined camera motion sensor threshold.

1. In the Configuration pane, in Pods/Sensor, double-click on the **Camera Pods** icon.
2. In the Camera Pod Configuration dialog, click **Sensors** to open the Sensor Configuration window.
3. In the Sensors list (top half of the window), select **Camera Motion**.
4. In the **Thresholds - Camera Motion** field (bottom half of the window), select the threshold labeled **Default**. Note that the Default threshold is currently not enabled (its Enabled value is “No”). Click **Edit** to open the Edit Threshold window.
5. In the Edit Threshold window check the **Enabled** check box and then click **OK** to close the Edit Threshold window. Note that the Default threshold, in the **Thresholds - Camera Motion** field, is now enabled (its Enabled value is “Yes”).

This completes the NetBotz Quick Configuration procedure. For additional information on configuring your NetBotz 420 please consult *Using Your Appliance*, included in PDF form on your *NetBotz Installer* CD-ROM. This documentation is also installed, by default, when you use the *NetBotz Installer* CD to install the management applications.

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