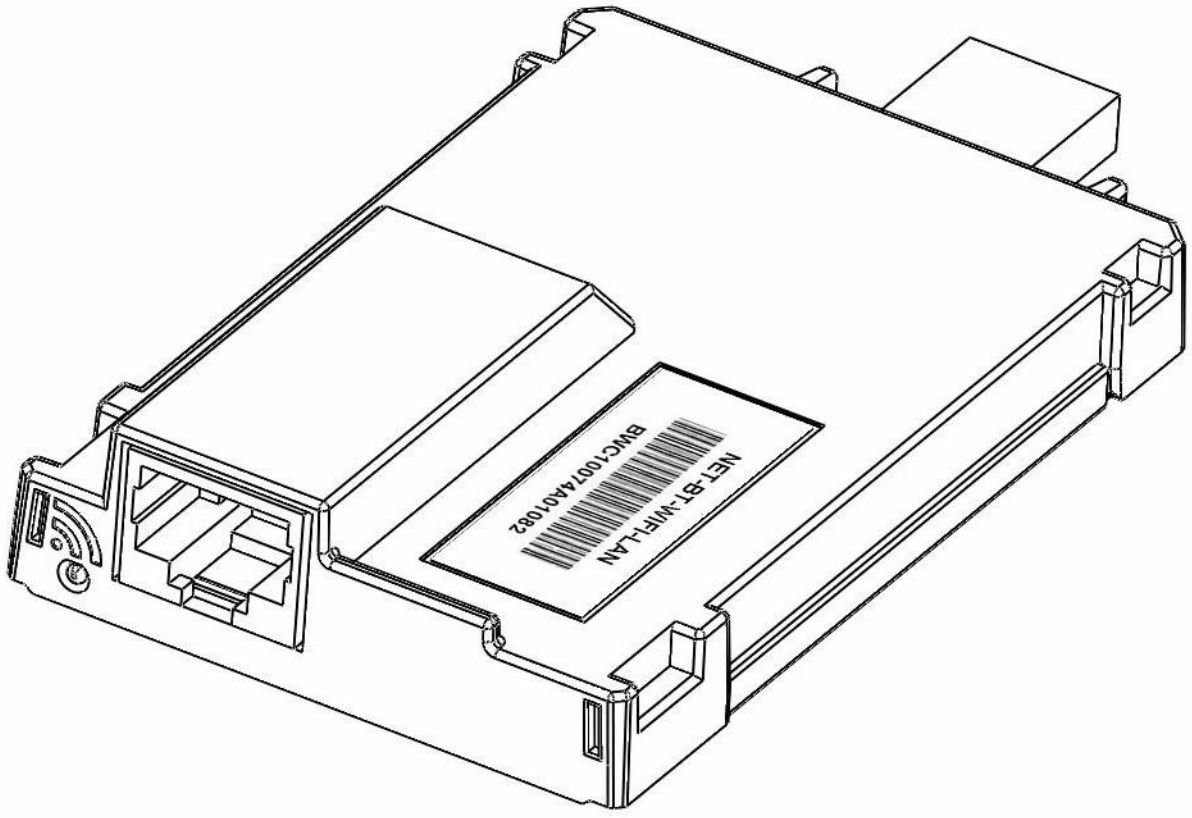
BRADY®

WHEN PERFORMANCE MATTERS MOST™



BRADY NETWORK CARD
INSTALLATION GUIDE

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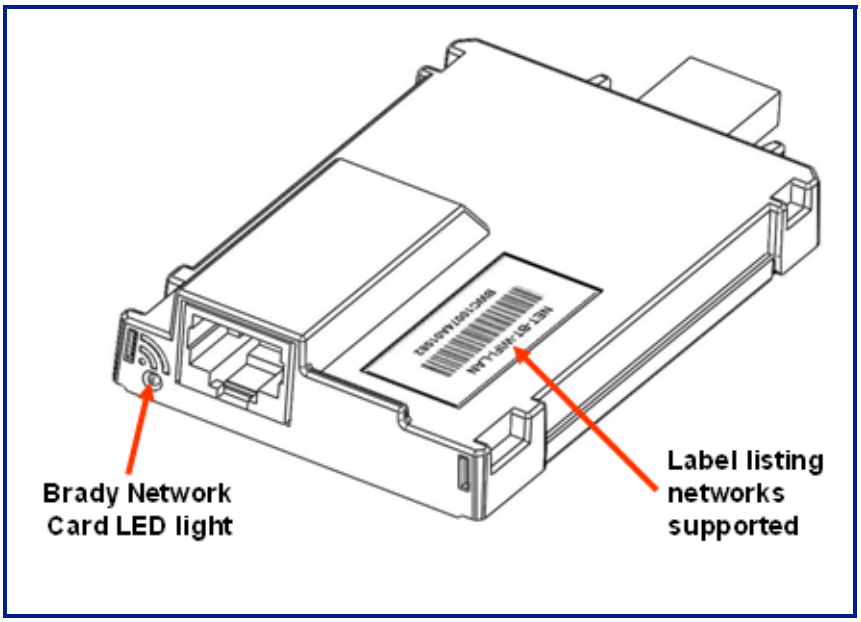
Brady Network Card



Brady Network Card LED Light

The changing colors of the LED light on the Brady Network Card signifies the following:

Color	Status
Solid Green	Card is functioning normally, status is OK.
Blinking Orange	The firmware is corrupted and it needs to be upgraded. Use the Brady Network Card Configuration Utility to upgrade the firmware. (See *page 55* for information on downloading new firmware.)
Blinking Green	Firmware upgrade is in progress.
Solid Red	Card failure. There is no communication between the Brady Network Card and the printer. Contact your system administrator.
Blinking Red	An error is detected in the current operation of the Brady Network Card. Check the current operation.

Networks Supported

The name on the barcode label of your network card will indicate which networks the specific card supports.

Name	Networks Supported
NET-BT-WIFI-LAN	Bluetooth, WiFi, and Ethernet
NET-WIFI	WiFi and Bluetooth ONLY
NET-BT	Bluetooth ONLY
NET-LAN	Ethernet ONLY

Brady Network Card Installation

If your Brady printer is equipped with a Brady Network Card (WiFi or Ethernet), you can configure the printer to run as a local printer (physically attached to your PC via a USB cable) and as a network (shared) printer through Ethernet or WiFi. To establish the printer as a network printer, you must configure the Brady Network Card to recognize and work with your networks. The Brady Printer Drivers CD, packaged with your printer, contains the installation wizards not only for printer drivers but also for the Brady Network Card configuration. The printer drivers and Brady Network Card drivers can also be downloaded from the Brady website at www.bradyid.com.

The network card installation and configuration wizard identifies six different installation scenarios. They are:

- First time installation for WiFi printing
- First time installation for Ethernet printing
- Bluetooth printing from mobile phones
- Installation for additional PC's
- Installing the USB driver only
- First time installation for Adhoc printing

First Time Installation for WiFi Printing

Use this installation process:

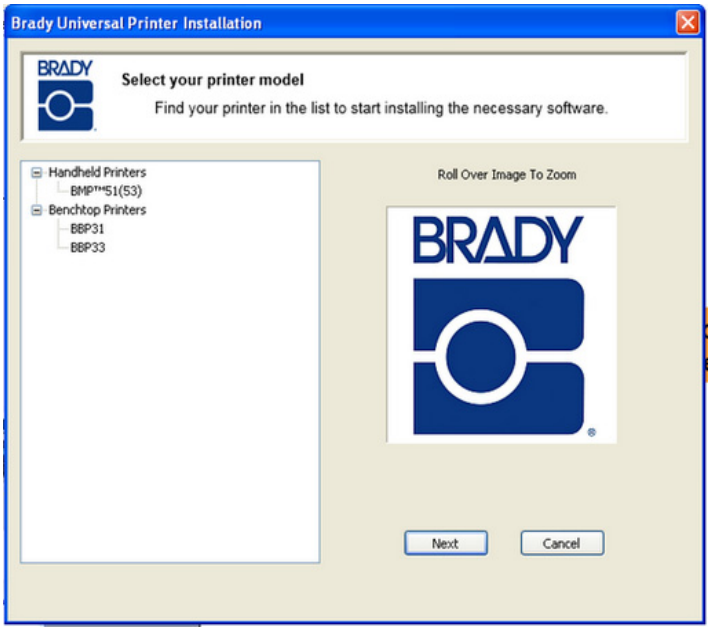
- ☑ **If you have just purchased the printer and are setting it up for the first time.**
- ☑ **If you intend to send print jobs to the printer from a PC using a WiFi network.**

To configure your Brady Network Card for WiFi and install the printer driver for your Brady printer, perform the following steps.

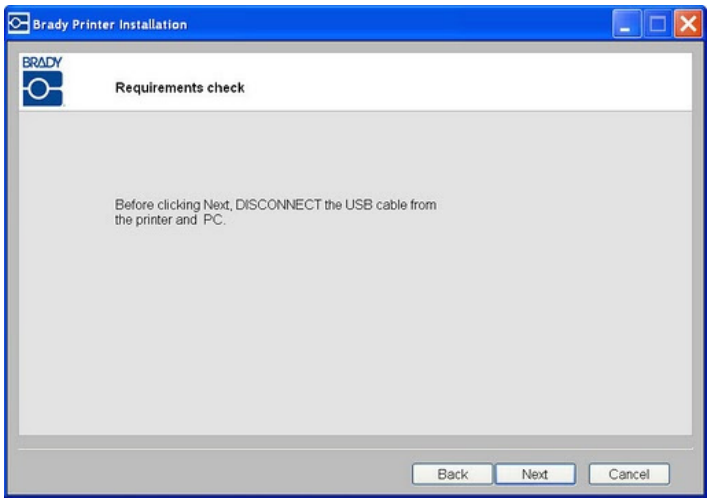
1. Make sure your printer and your PC are **NOT** connected with a USB cable.
2. Insert the Brady Printer Drivers CD into the CD drive of your computer.

The installation wizard launches automatically.

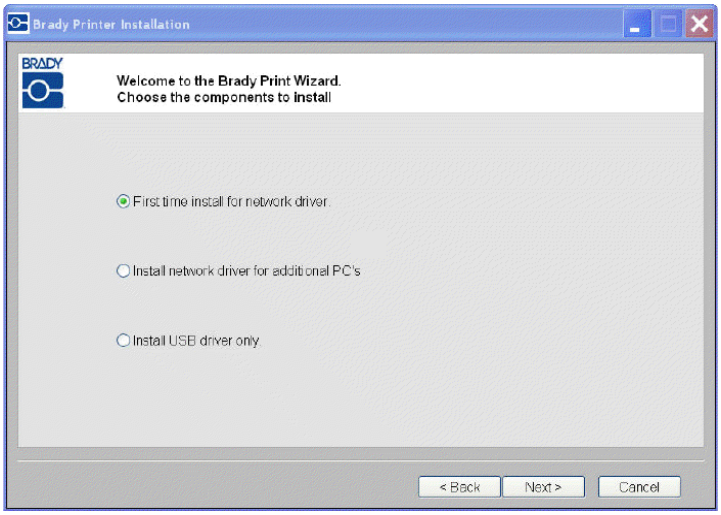
3. Turn the printer on..
4. Click the printer model you are installing.
5. Click Next.



6. If your printer and PC are still connected with a USB cable, **DISCONNECT** it now.
7. Click Next.

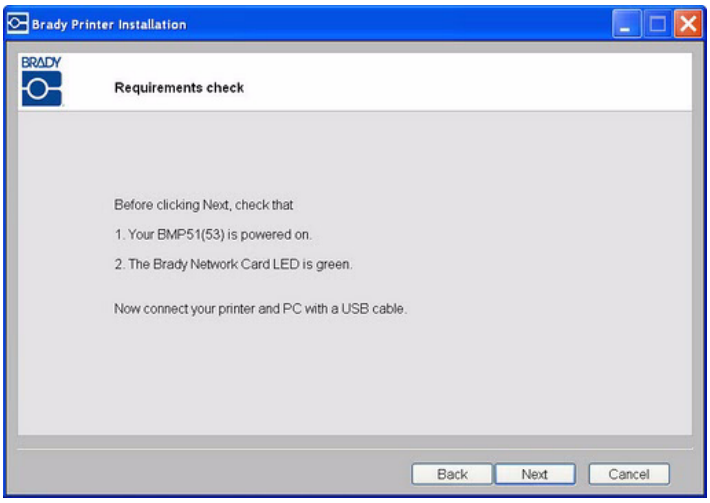


8. Click *First time install for network driver.* (This is selected by default.)
9. Click Next.



10. Check that your printer is powered on and that the Brady Network Card LED is solid green.

11. Connect the printer to your PC with a USB cable.



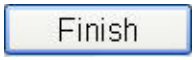
If the *Found New Hardware Wizard* displays, continue with Step 12, otherwise skip to Step 15.

12. Click *Yes, now and every time I connect a device* radio button, then click Next.

13. Click *Install software automatically (Recommended)* radio button, then click Next.

The installation continues.

14. When completed, click Finish

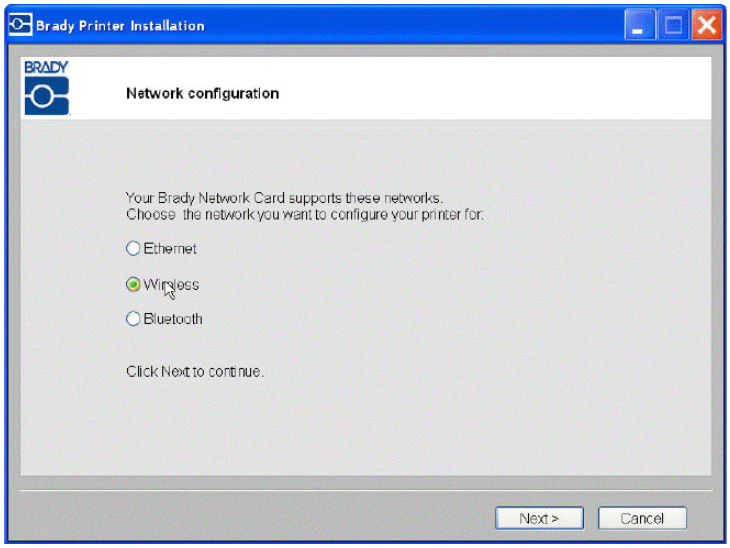


to close the wizard.

15. Click Next.

The networks supported by your Brady Network Card are shown. To activate WiFi:

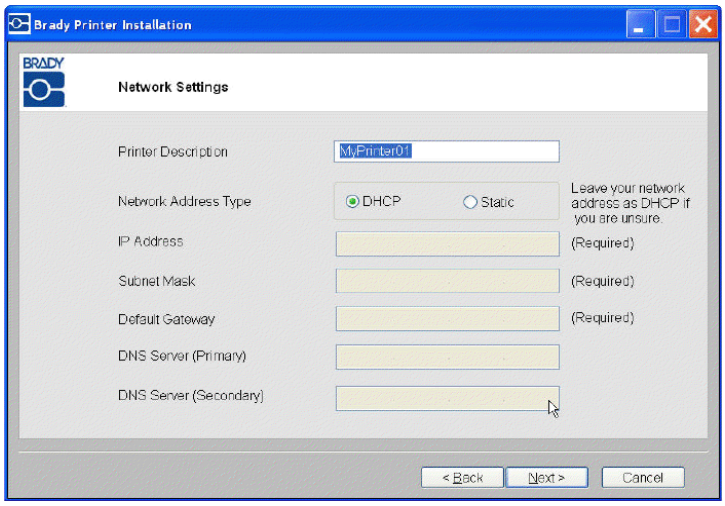
16. Click *Wireless*, then click Next.



17. In the *Printer Description* field, enter an easy-to-identify name/description for this network connection. You can use any alphanumeric characters.

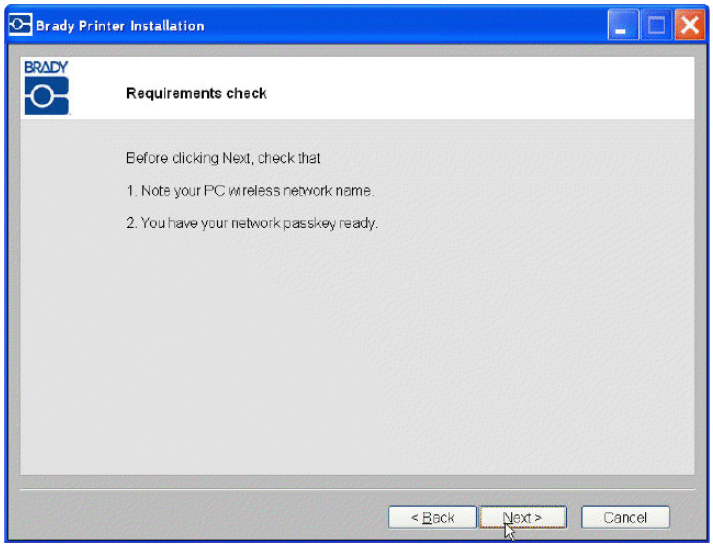
In the *Network Address Type* field, the default DHCP protocol is recommended. If you choose Static, the IP Address, Subnet Mask and Default Gateway fields are required.

18. Click Next.

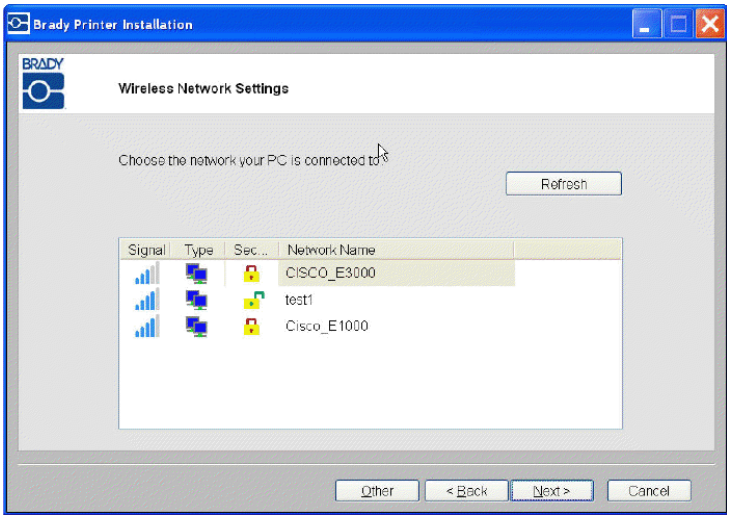


Be sure that you have your PC's WiFi network name and network passkey (if the network is password protected). When you have gathered that information:

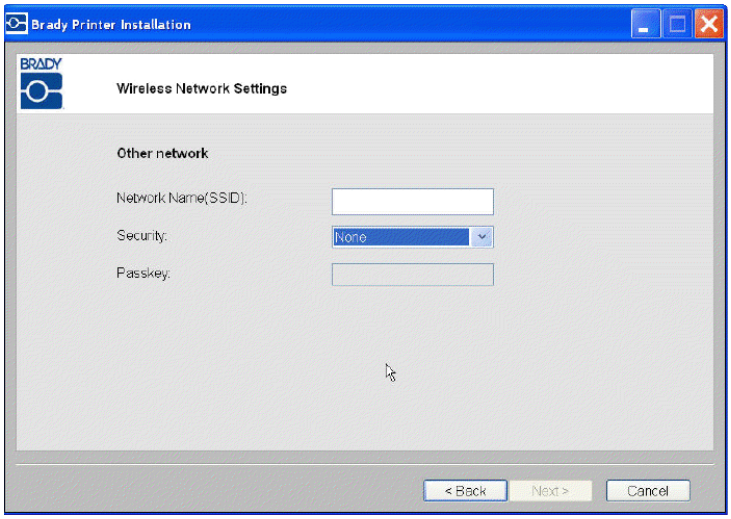
19. Click Next



20. Choose the network that your PC is currently connected to, then click Next.



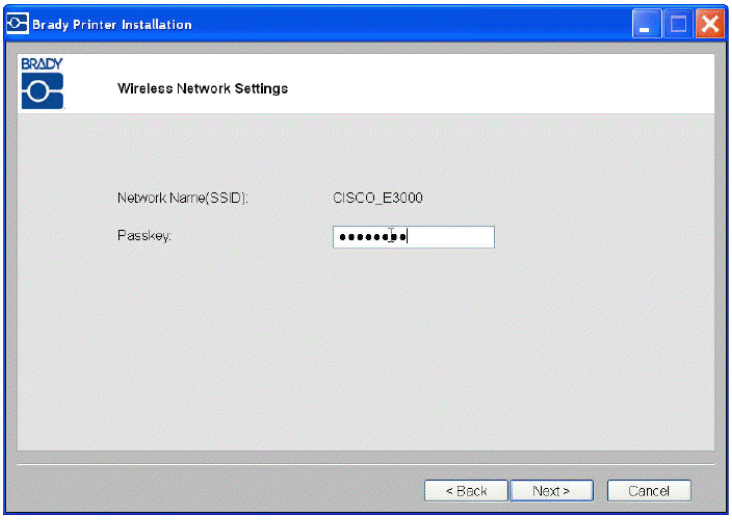
Note: If you do not see your network in the list, you can choose Other to manually specify a network.

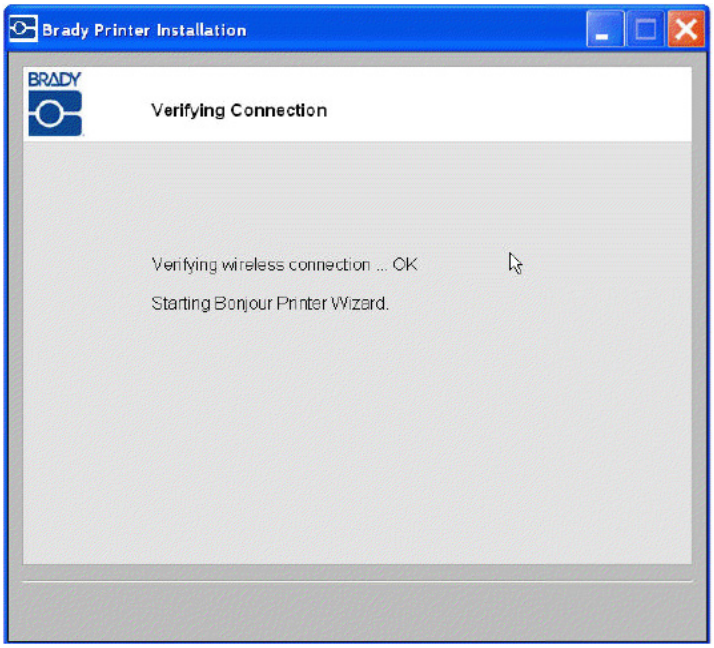


21. Enter the passkey for the selected network.

If you do not know the password or security type, consult with your network administrator.

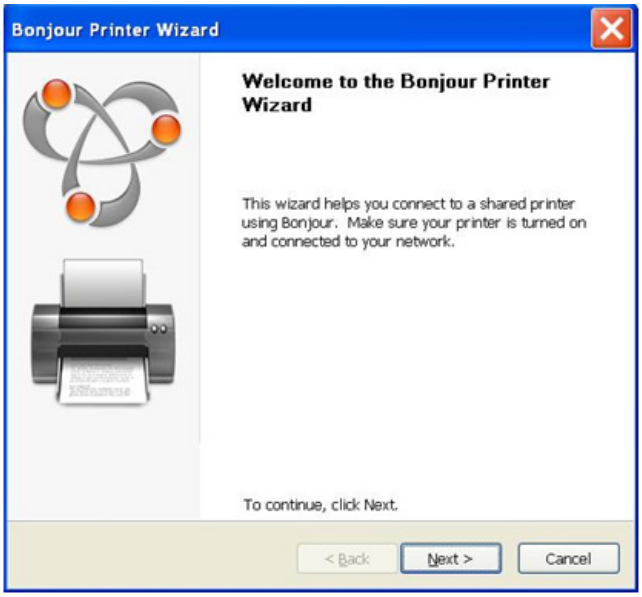
22. Click Next





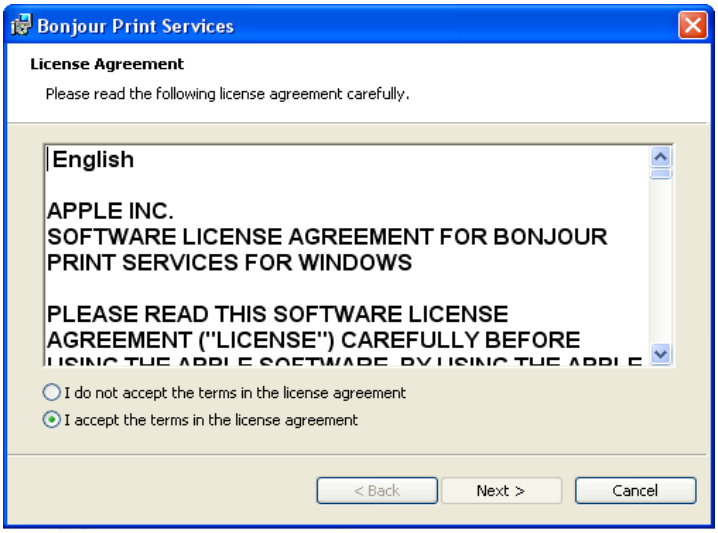
When the wireless connection is successful, the Bonjour wizard is launched.

23. Click Next.



The Apple End User License Agreement is shown.

24. Aftr reading it, click *I accept the terms in the license agreement*, then click Next to continue.

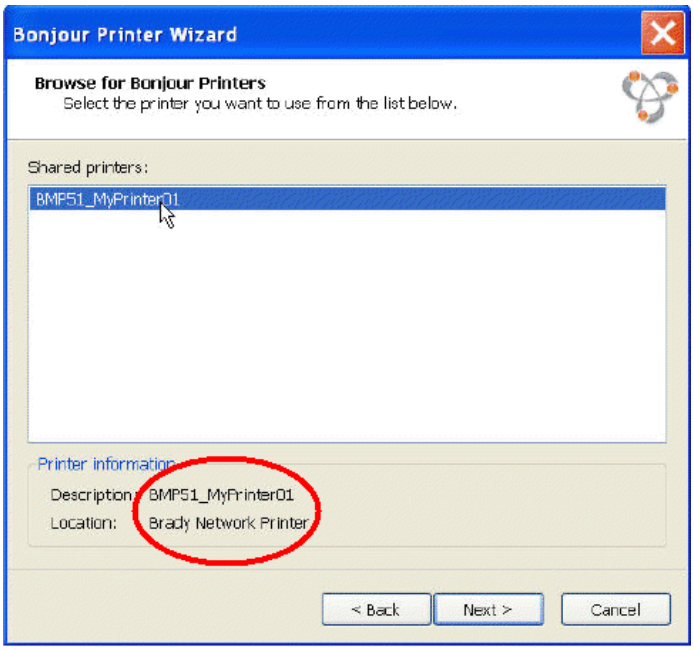


The Bonjour program is designed to establish and monitor network printers. The Bonjour Printer Wizard establishes your Brady printer as a network printer.

25. Click the assigned network printer name.

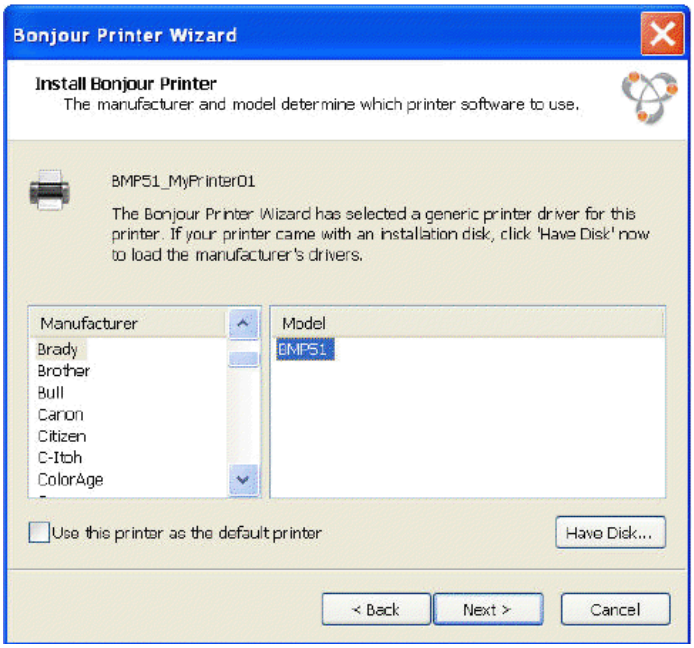
For easier identification, the name or description you assigned in Step 12 above displays in the lower left corner of the screen.

26. Click Next.

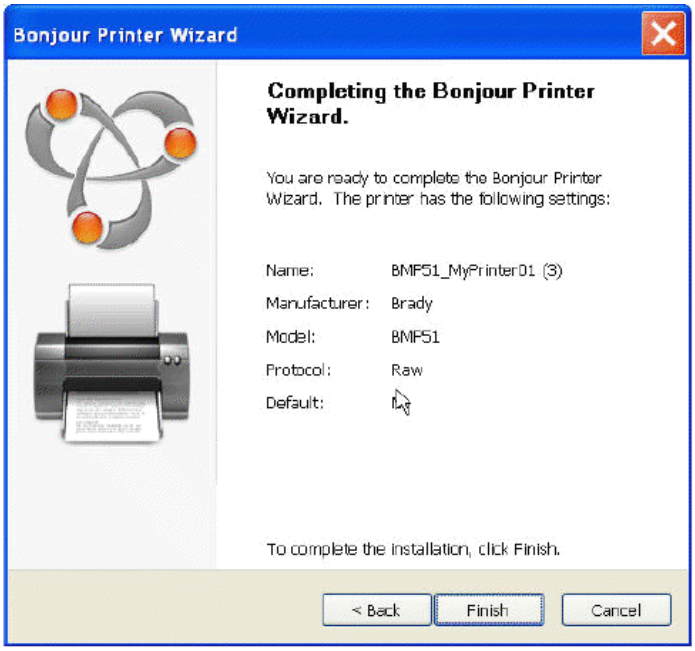


27. In the *Manufacturer* field , click on Brady (the manufacturers are in alphabetical order); then, in the *Model* field, click the printer to install.

28. Click Next.

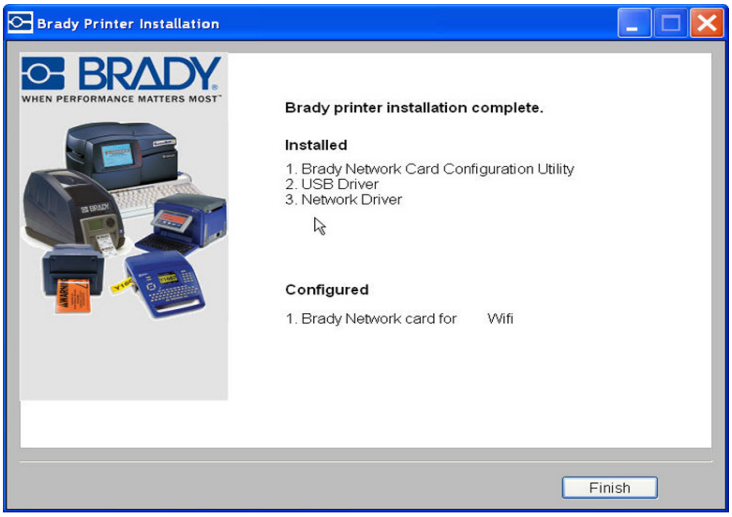


29. Once the Bonjour Printer wizard completes, click Finish.



The Brady Printer Installation is completed.

30. Click Finish to exit the wizard.



First Time Installation for Ethernet Printing

Use this installation process:

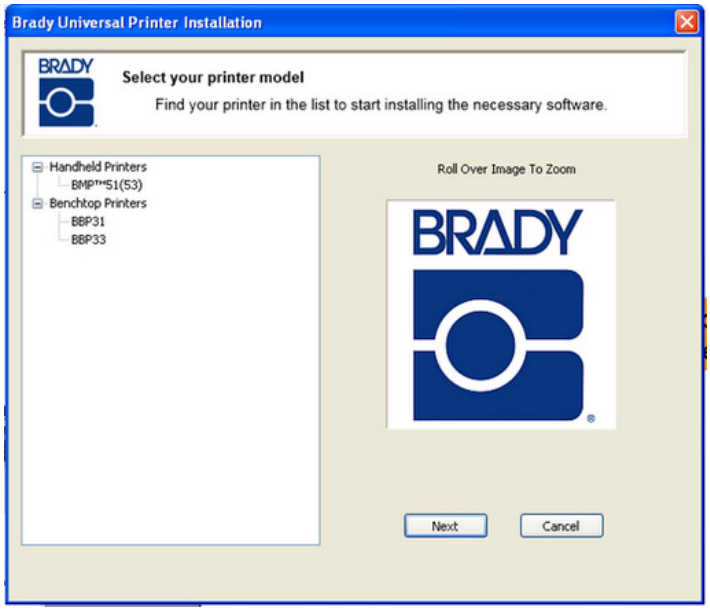
- ☑ **If you have just purchased the printer and are setting it up for the first time.**
- ☑ **If you intend to send print jobs to the printer from a PC using Ethernet or over a LAN network.**

The Brady Network Card is configured to support either Ethernet or WiFi connections. You cannot have both connections active at the same time. To activate the Ethernet connection:

1. Make sure your printer and your PC are **NOT** connected with a USB cable.
2. Insert the Brady Printer Drivers CD into the CD drive of your computer.

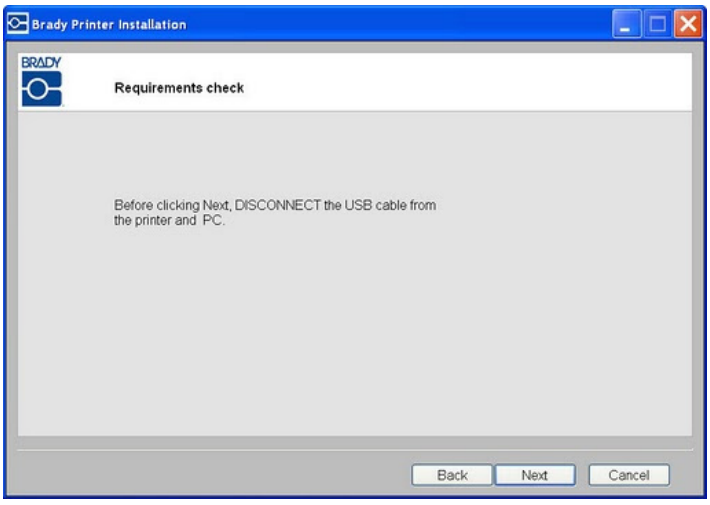
The installation wizard launches automatically.

3. Turn the printer on.
4. Click printer model you are installing.
5. Click Next.



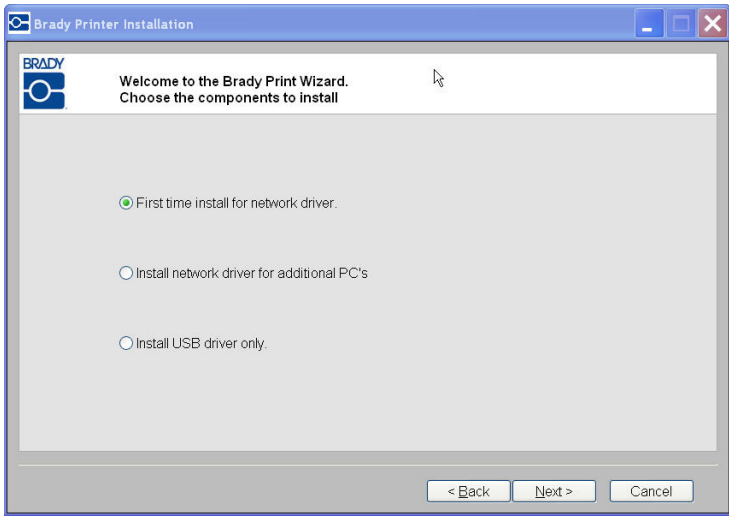
6. If your printer and PC are still connected with a USB cable, **DISCONNECT** it now.

7. Click Next.



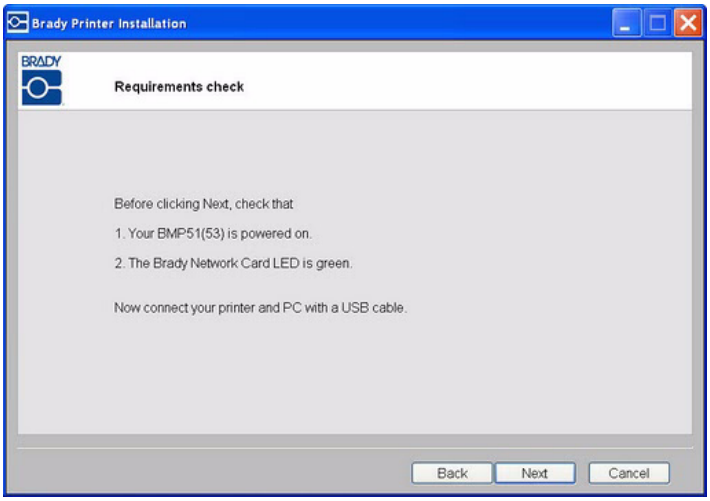
8. Click *First time install for network driver.* (This is selected by default.)

9. Click Next.



10. Check that your printer printer is powered on, and that the Brady Network Card LED is solid green.

11. Connect the printer to your PC with a USB cable.



If the *Found New Hardware Wizard* displays, continue with Step 12, otherwise skip to Step 15.

12. Click *Yes, now and every time I connect a device* radio button, then click Next.

13. Click *Install software automatically (Recommended)* radio button, then click Next.

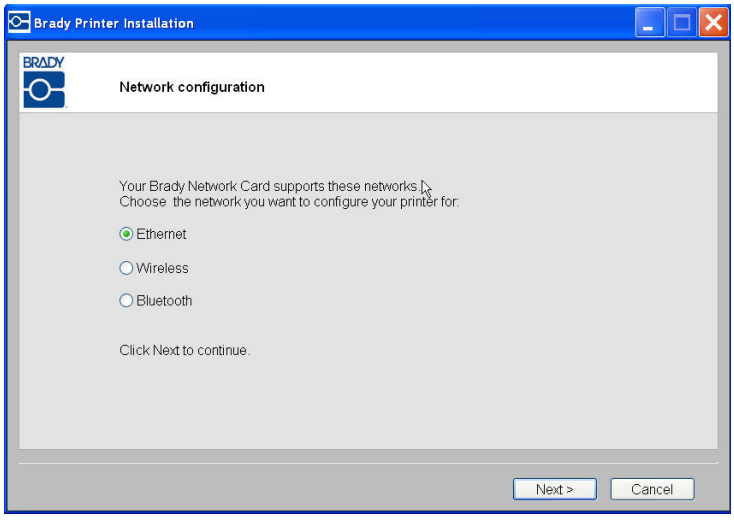
The installation continues.

14. When completed, click Finish to close the wizard.

15. Click Next.

16. Click *Ethernet* radio button.

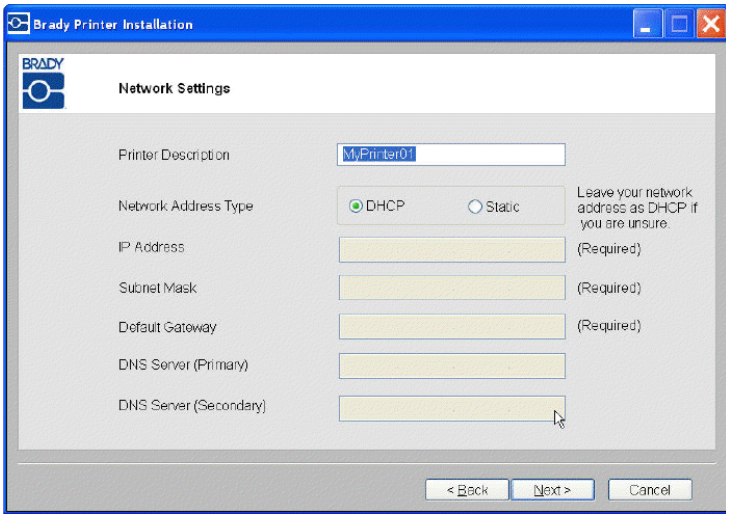
17. Click Next.



18. In the *Printer Description* field, enter an easy-to-identify name/description for this network connection. You can use any alphanumeric characters.

In the *Network Address Type* field, the default DHCP protocol is recommended. If you choose Static, the IP Address, Subnet Mask and Default Gateway fields are required.

19. Click Next.



20. Verify that your printer and PC are connected to the same network. When verified, click Next.

To verify that your printer and PC are on the same network, refer to the connection guidelines below.

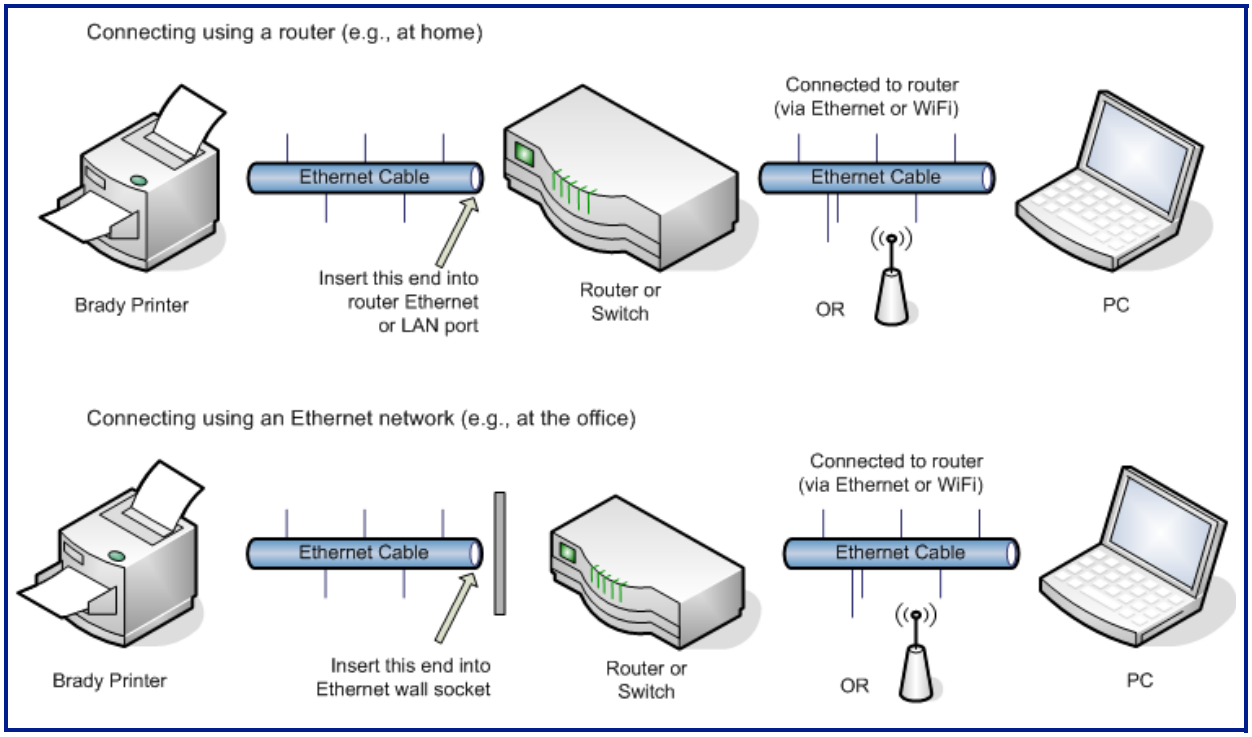
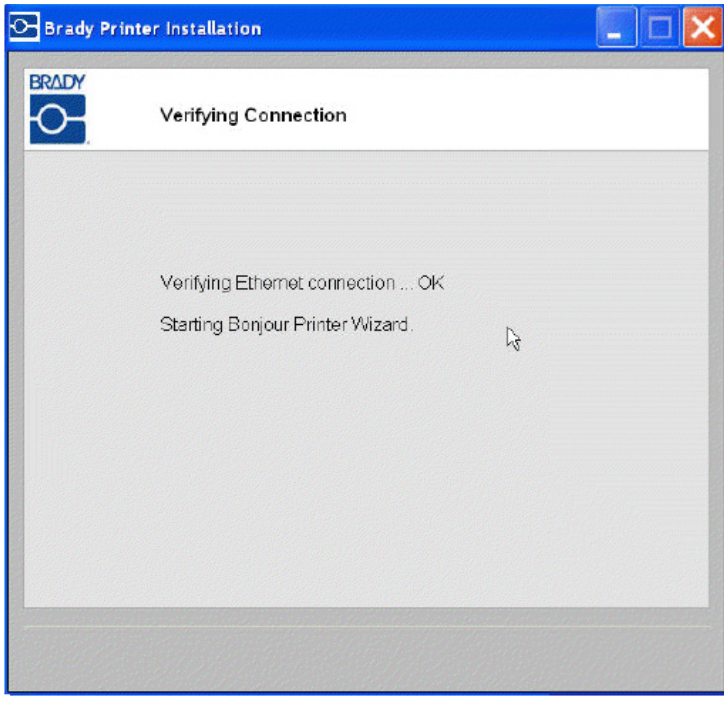


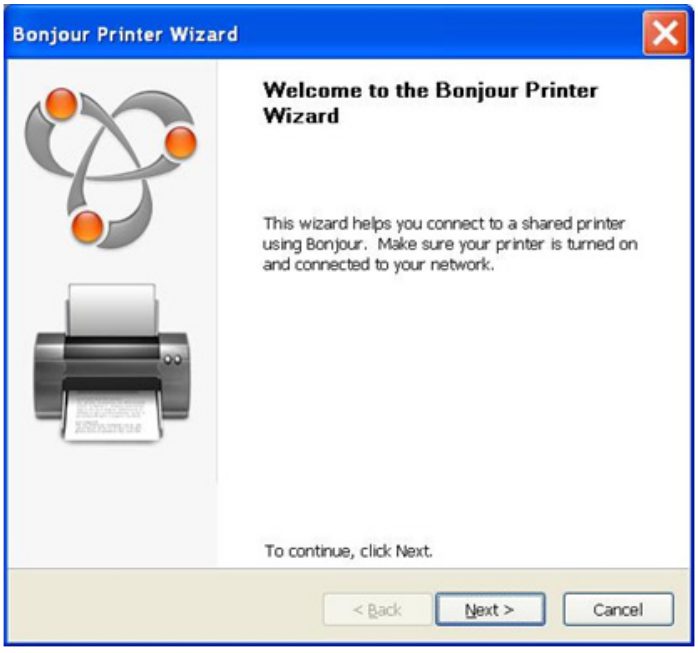
Figure 1 • Network connections

21. When the Ethernet connection is successful, the Bonjour Printer Wizard is launched.



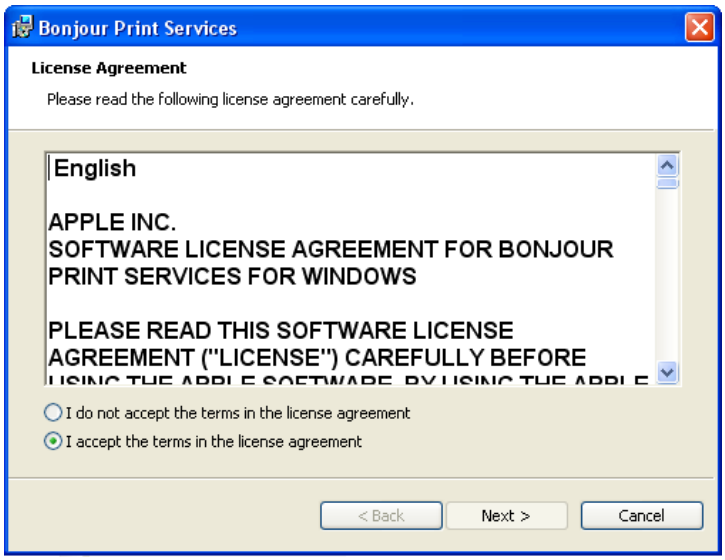
The Bonjour program is designed to establish and monitor network printers. The Bonjour Printer Wizard establishes your Brady printer as a network printer.

22. Click Next.



The Apple End User License Agreement is shown.

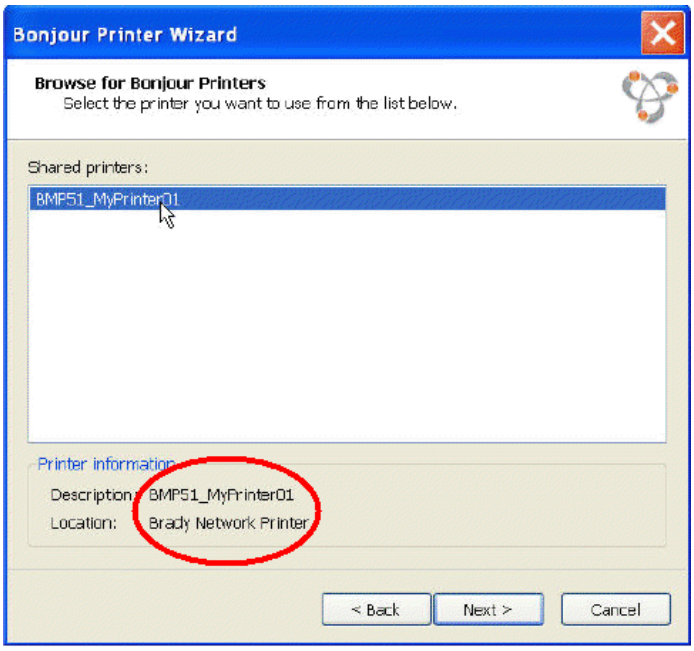
23. Aftr reading it, click *I accept the terms in the license agreement*, then click Next to continue.



24. Click the assigned network printer name.

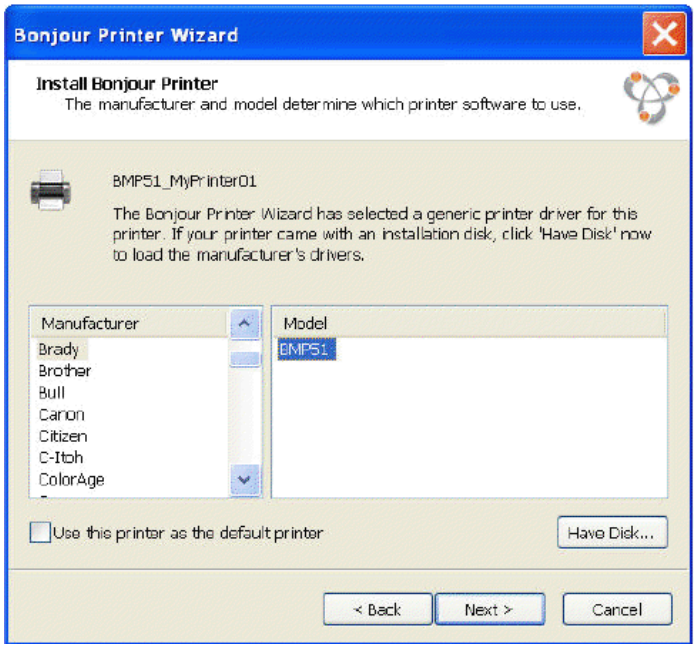
For easier identification, the name or description you assigned in Step 13 above displays in the lower left corner of the screen.

25. Click Next.

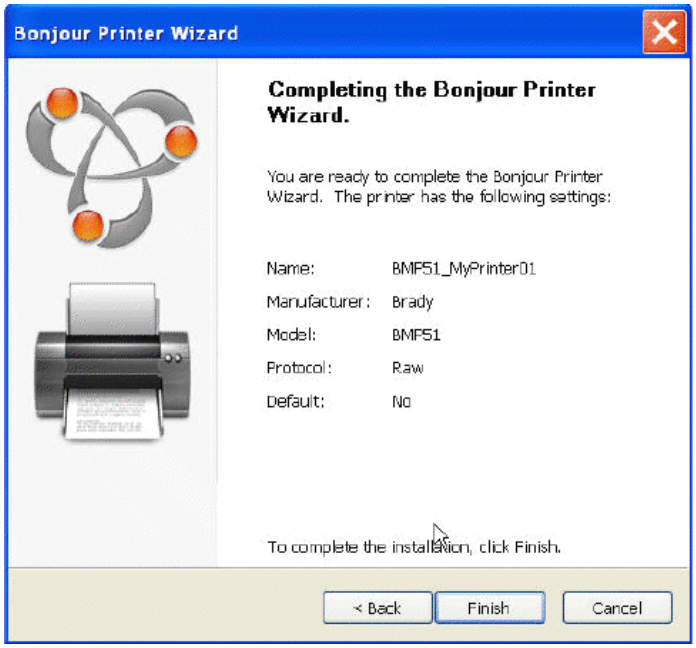


26. In the *Manufacturer* field , click on Brady (the manufacturers are in alphabetical order); then, in the *Model* field, click the printer to install.

27. Click Next.

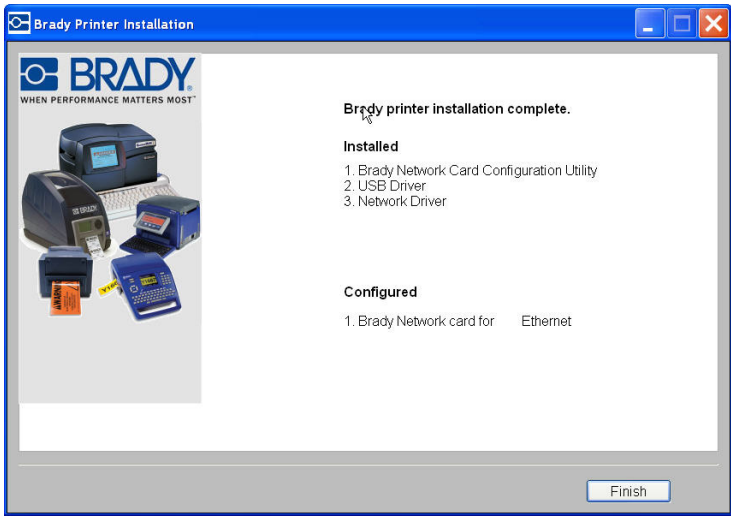


28. Once the Bonjour Printer wizard completes, click Finish.



The Brady Printer Installation is completed.

29. Click Finish to exit the wizard.



Bluetooth Printing from Mobile Phones

Use this installation process if you intend to send print jobs to the printer using a Bluetooth enabled mobile phone.

If your phone has the Brady Mobile Application installed, it can send print jobs directly to the printer using Bluetooth, without any setup. Ensure that your printer is powered on and the Brady Network Card LED light is green.

On the Brady Mobile Application, select a print job and follow the on-screen instructions to print.

Default PIN

If the Brady Mobile Application requests the PIN (Personal Identification Number) of the Brady printer with which you are establishing communication, initially use the default PIN: 0000.

You can change this PIN through the Brady Network Card Configuration Utility. See *page 33* (Installing the USB drivers only) for steps to install the Configuration Utility. See *page 54* for information on changing the PIN.

Default Name

You can also change the printer device name through the Network Card configuration Utility. See page *page 33* (Installing the USB drivers only) for steps to install the Configuration Utility. See *page 54* for more information on changing the printer name.

Installation for Additional PC's

Use this installation process if your printer has already been configured previously but you now want to use another PC to send print jobs to the printer.

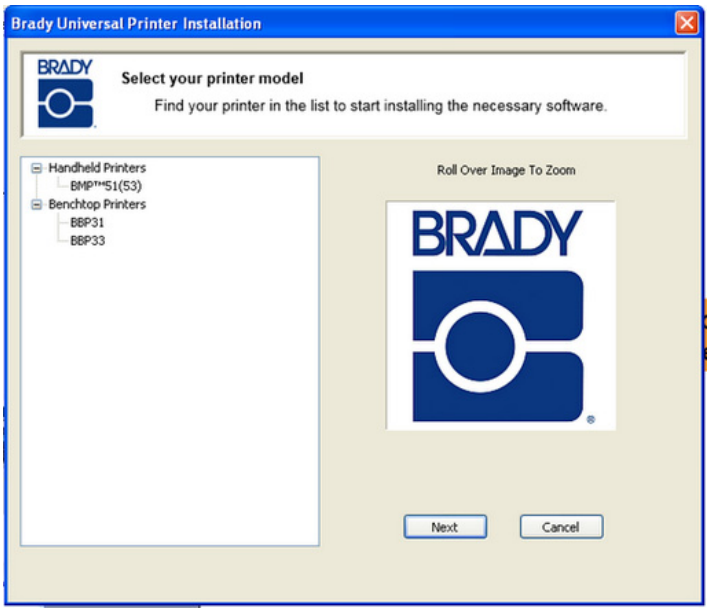
> **Note:** Your additional PC must be on the same network as the printer. If not, it will not be detected during installation.

Once the Brady Network Card has been configured for Ethernet or WiFi, you can install those network drivers on additional PC's.

1. Insert the Brady Universal Printer Driver CD into the CD drive of your computer.

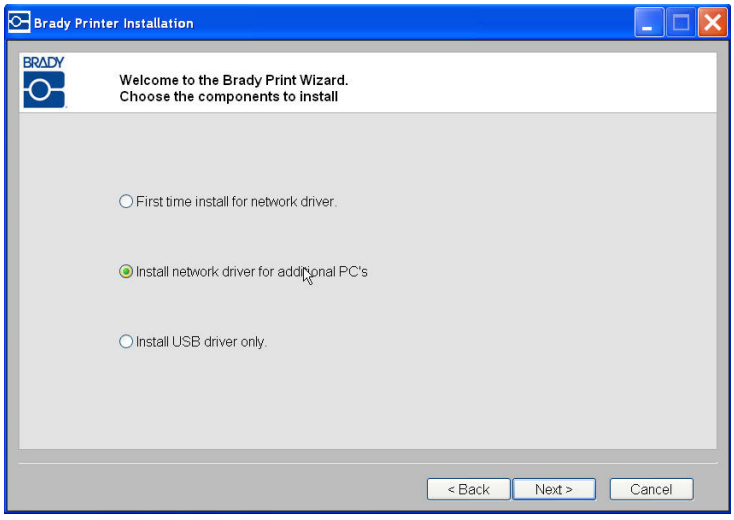
The installation wizard launches automatically.

2. Click the printer model you are installing.
3. Click Next.

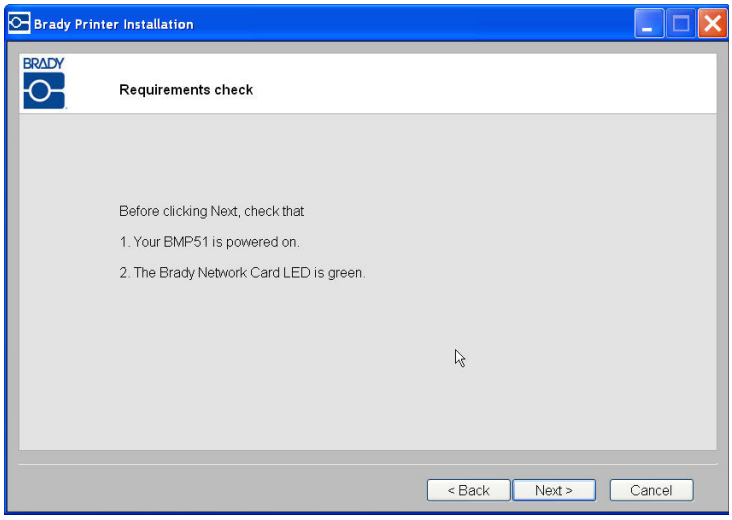


4. Click *Install network driver for additional PC's*.

5. Click Next.



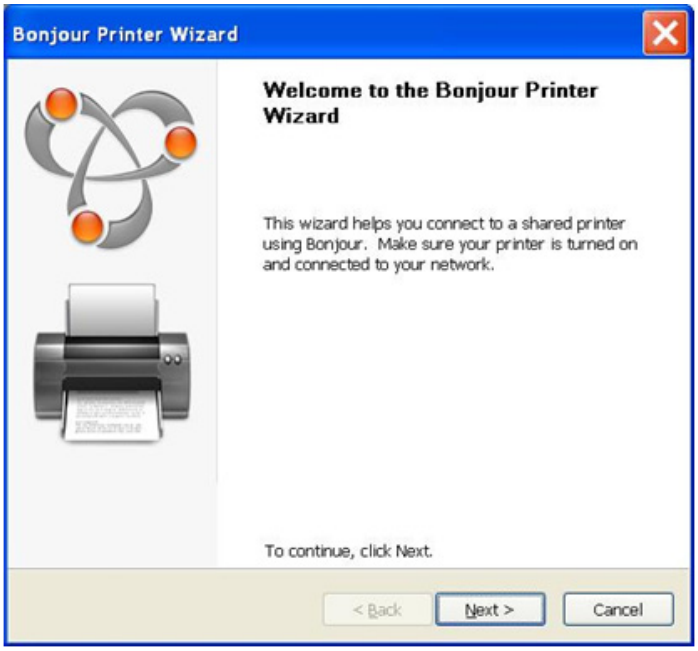
6. After verifying that the printer is powered on and the Brady Network Card is functioning properly (signified by the green light), click Next.



Tthe Bonjour wizard is launched.

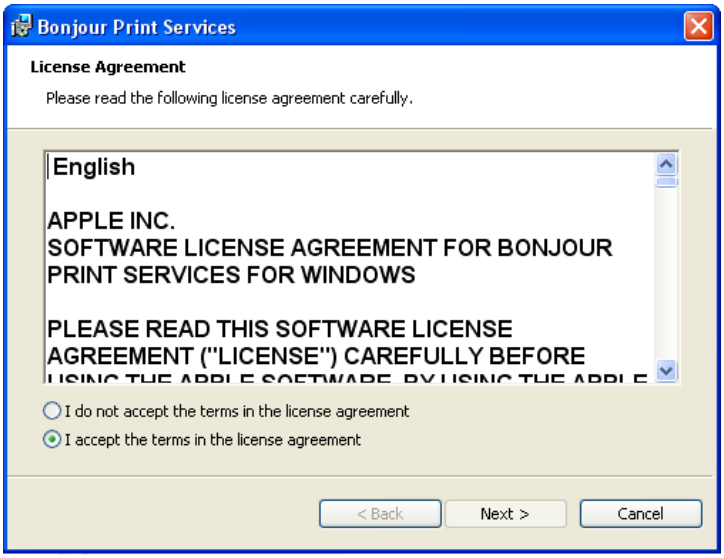
The Bonjour program is designed to establish and monitor network printers. The Bonjour Printer Wizard establishes your Brady printer as a network printer.

7. Click Next.



The Apple End User License Agreement is shown.

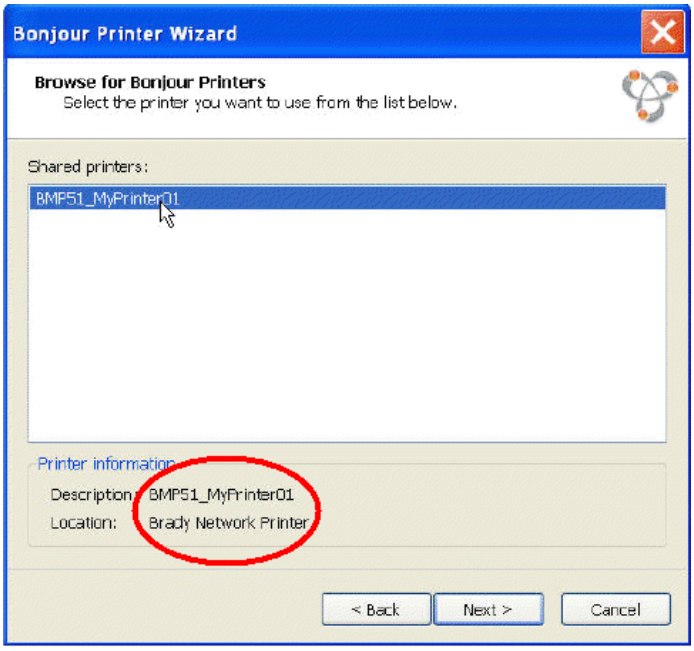
8. Aftr reading it, click *I accept the terms in the license agreement*, then click Next to continue.



9. Click the assigned network printer name.

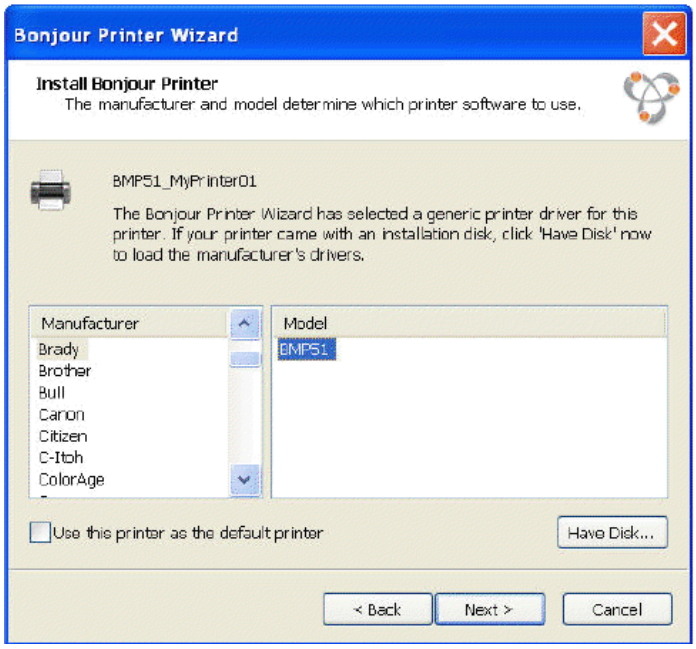
For easier identification, the name or description you assigned above displays in the lower left corner of the screen.

10. Click Next.

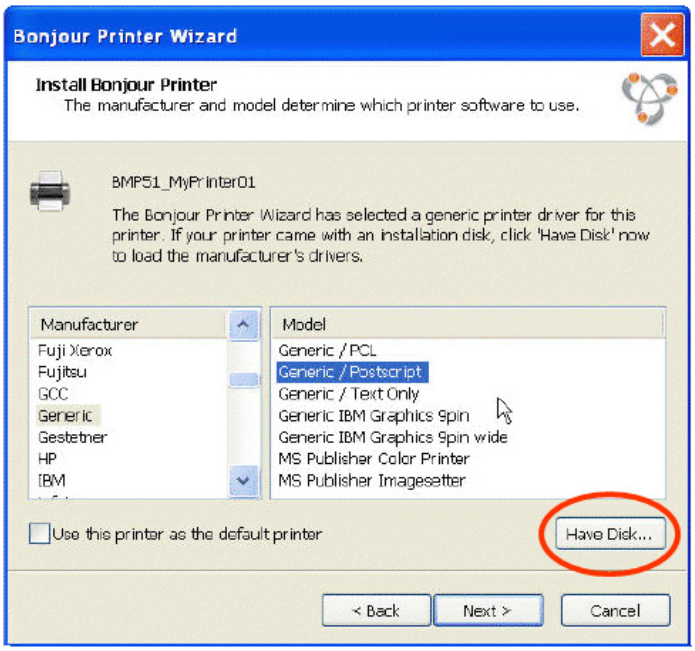


11. In the *Manufacturer* field , click on Brady (the manufacturers are in alphabetical order); then, in the *Model* field, click the printer to install.

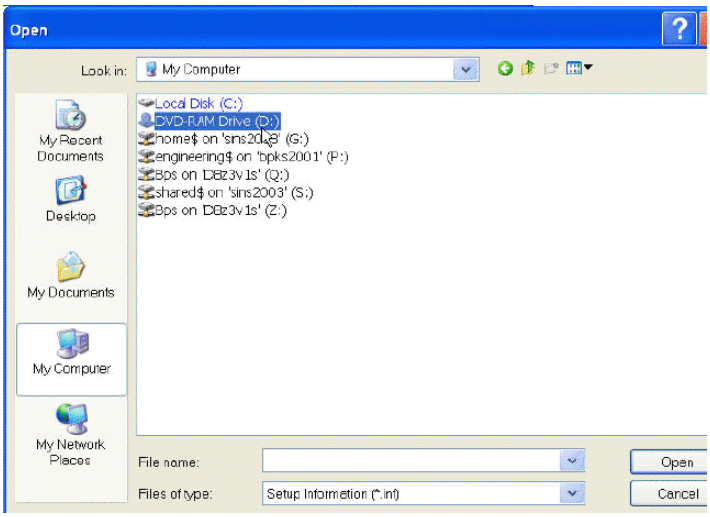
12. Click Next.



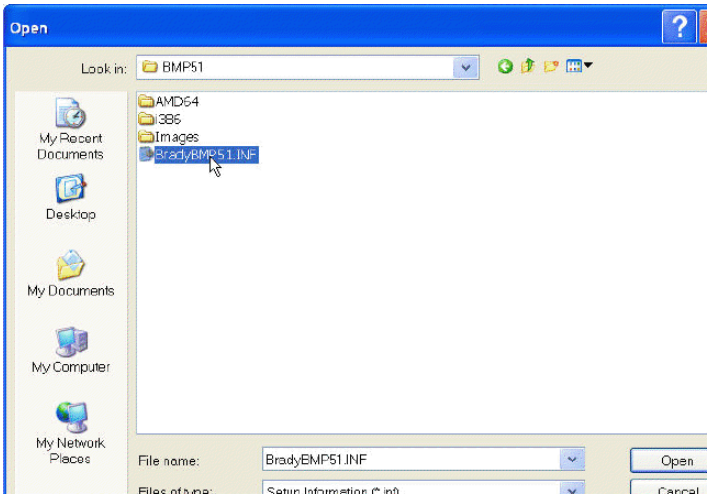
13. If Brady cannot be found in the *Manufacturer* field, click Have Disk.



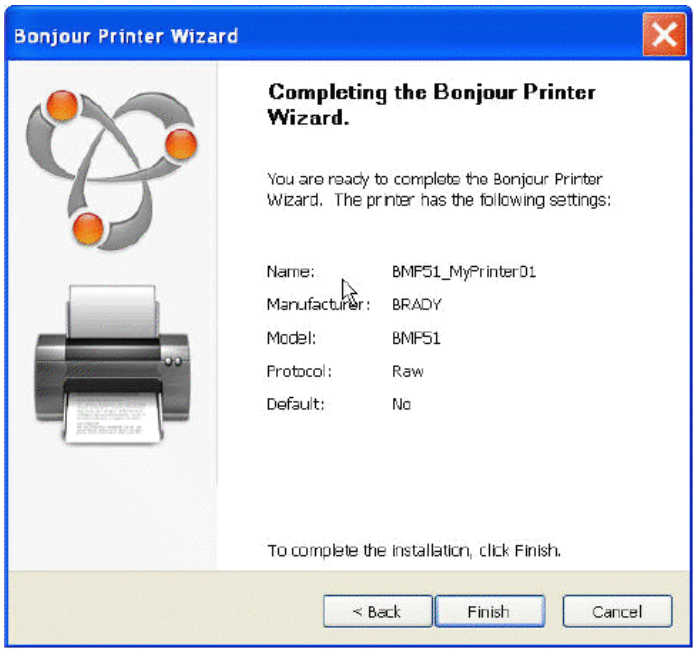
14. Browse the supplied CD and locate the .INF file for your printer model.



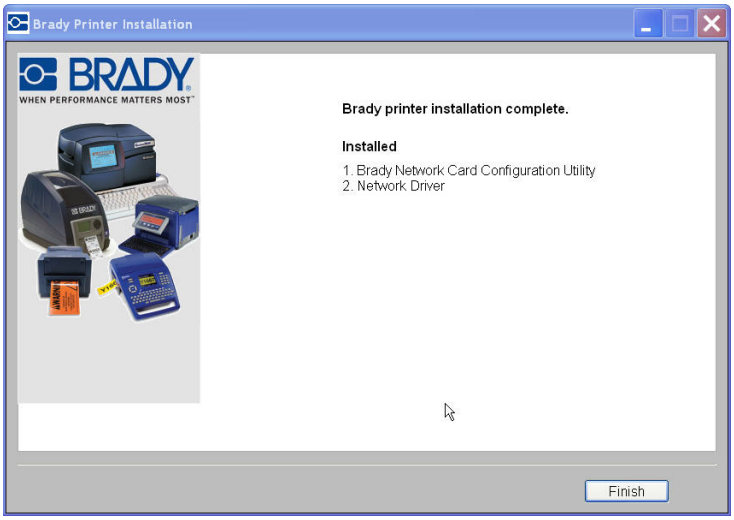
The example on the right shows the .inf file for installing a BMP51 printer.



15. Once the Bonjour Printer wizard completes, click Finish.



16. The Brady Printer Installation is completed. Click Finish to exit the wizard.



Installing the USB Driver Only

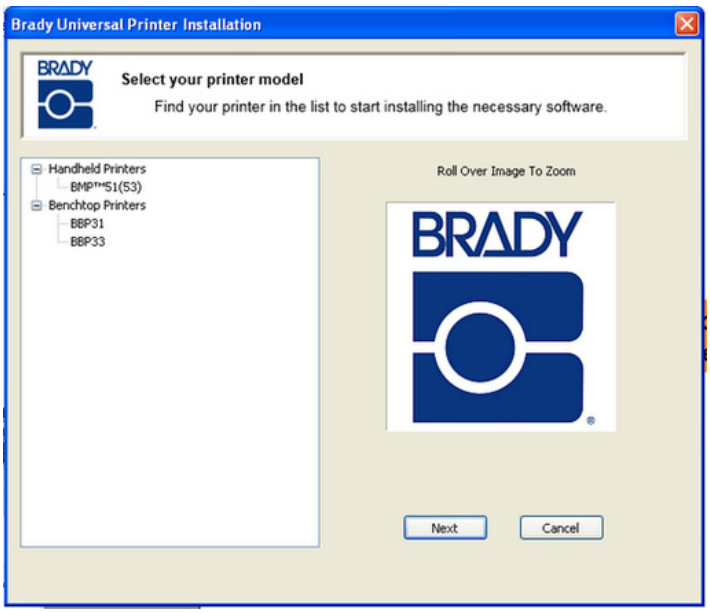
Use this installation process if you intend to send print jobs to the printer from a PC using USB cable only.

To install the printer driver for your Brady printer, and install the Brady Network Card Configuration Utility, perform the following steps.

1. Make sure your printer and your PC are **NOT** connected with a USB cable.
2. Insert the Brady Printer Drivers CD into the CD drive of your computer.

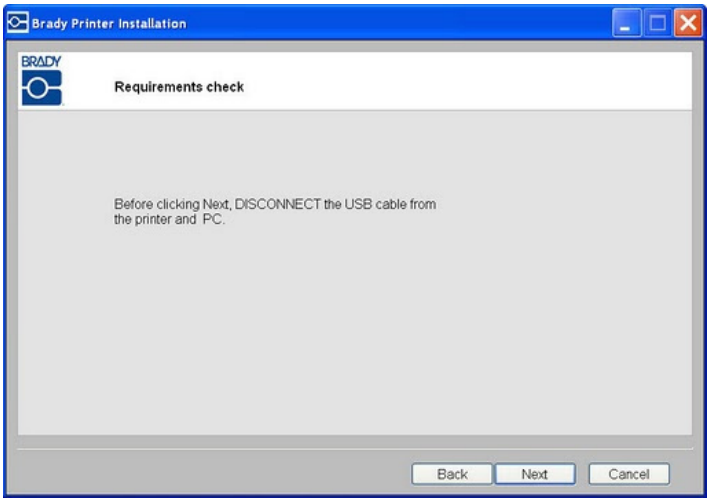
The installation wizard launches automatically.

3. Turn the printer on.
4. Click the printer model you are installing.
5. Click Next.



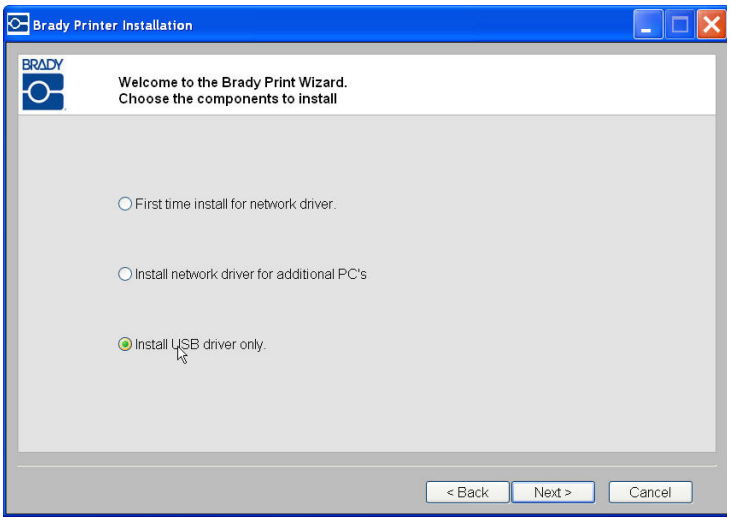
6. If your printer and PC are still connected with a USB cable, **DISCONNECT** it now.

7. Click Next.

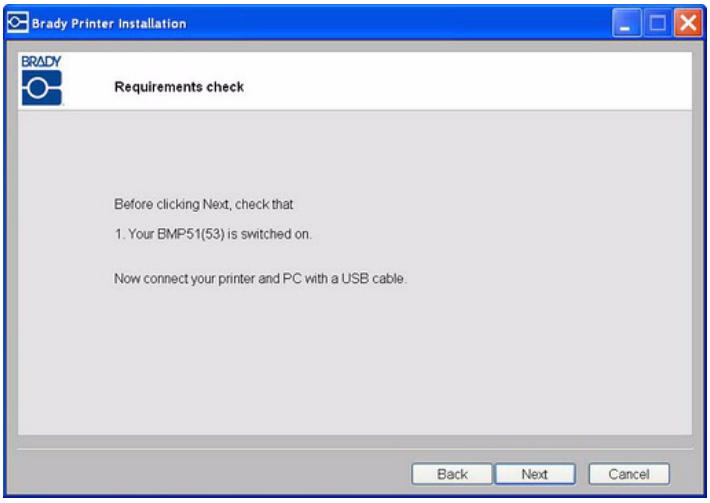


8. Click *Install USB Driver Only* radio button.

9. Click Next.



10. Connect the printer to your PC with a USB cable.



If the *Found New Hardware Wizard* displays, continue with Step 11, otherwise skip to Step 14.

11. Click *Yes, now and every time I connect a device* radio button, then click Next.

12. Click *Install software automatically (Recommended)* radio button, then click Next.

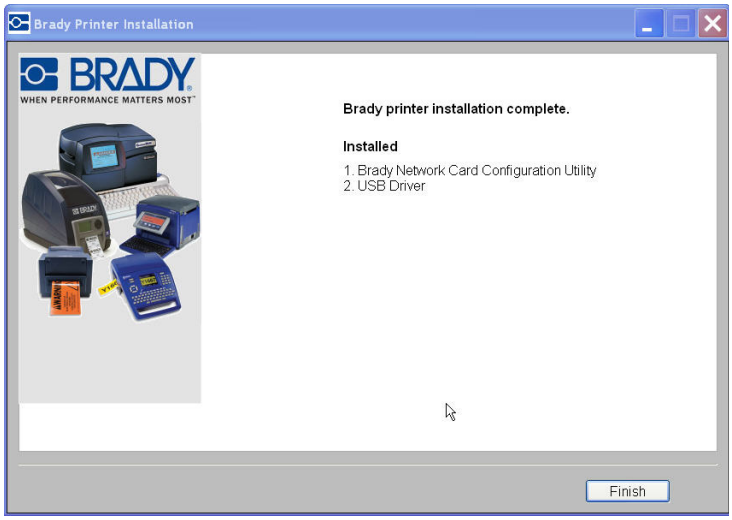
The installation continues.

13. When completed, click Finish

to close the wizard.

14. Click Next.

15. When the Brady Network Card Configuration Utility and USB Driver are successfully installed, click Finish.



First Time Installation for Adhoc Printing

Use this installation process to connect your PC to the printer, wirelessly, without a router. This is known as a peer-to-peer connection. The wireless connection allows you to send print jobs to the printer from outside the office.

Setting up adhoc printing involves the following three steps:

1. Install USB driver.
2. Establish adhoc connection
3. Install network driver

Install USB Driver

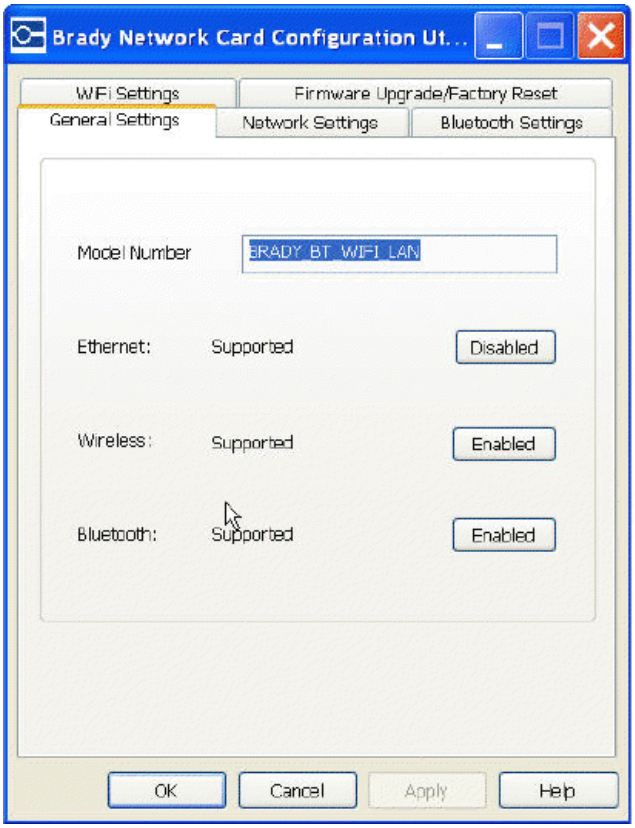
Follow Steps 1 through 10 (starting on *page 33*) for USB installation.

Establish Adhoc Connection

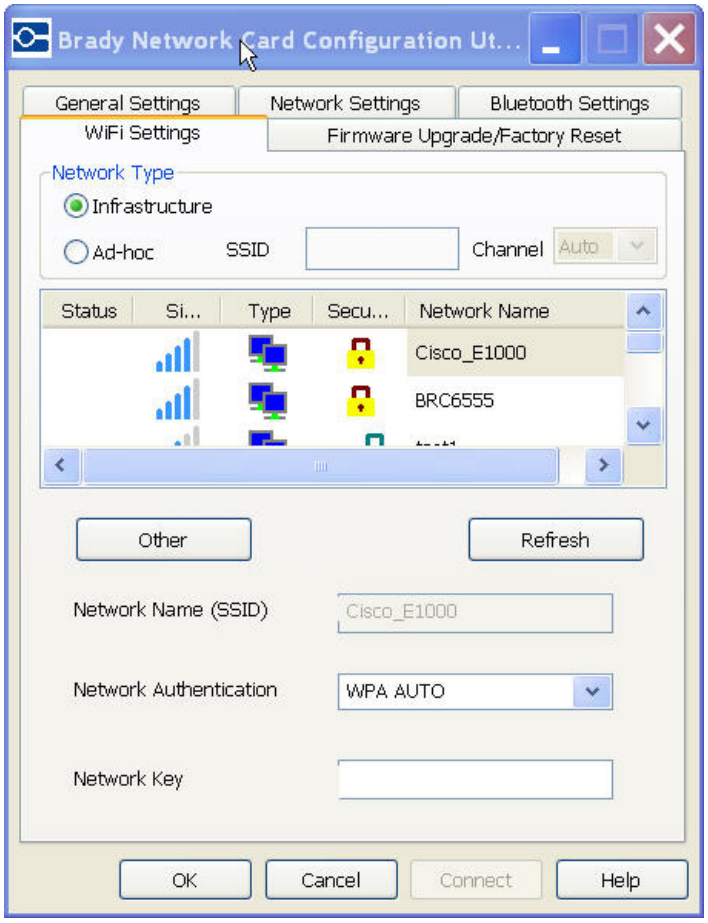
1. Open the Brady Network Card Configuration Utility by choosing **Start>Programs>Brady>Brady Network Card>Brady Network Card Configuration Utility**.

2. Click General Settings tab (if not already displayed).

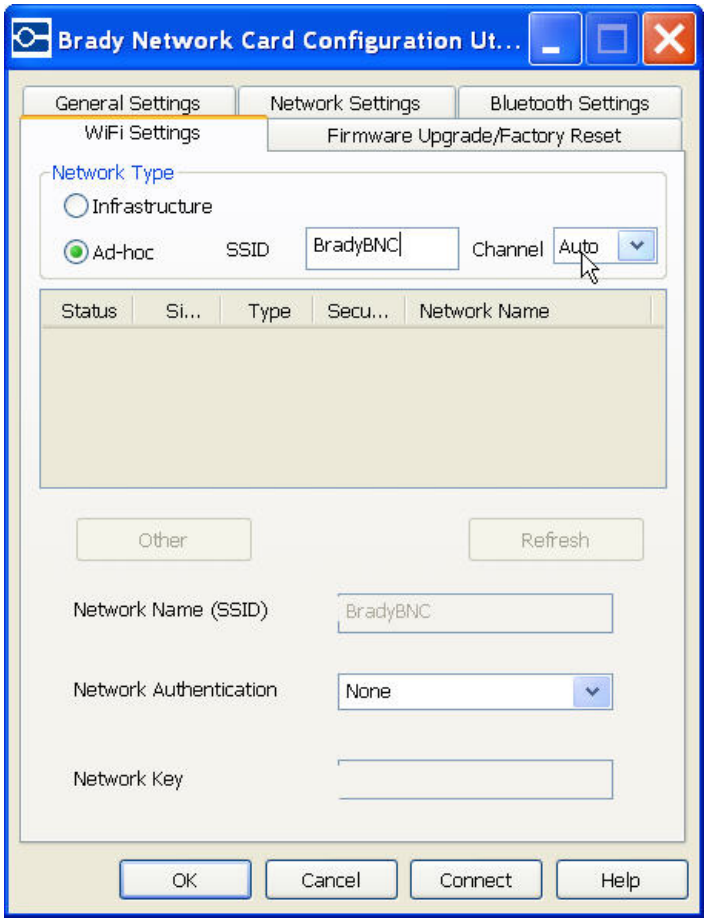
3. Check that Wireless is enabled. If it is disabled, click Enable to enable WiFi settings.



The application performs a WiFi scan and displays a list of available networks.

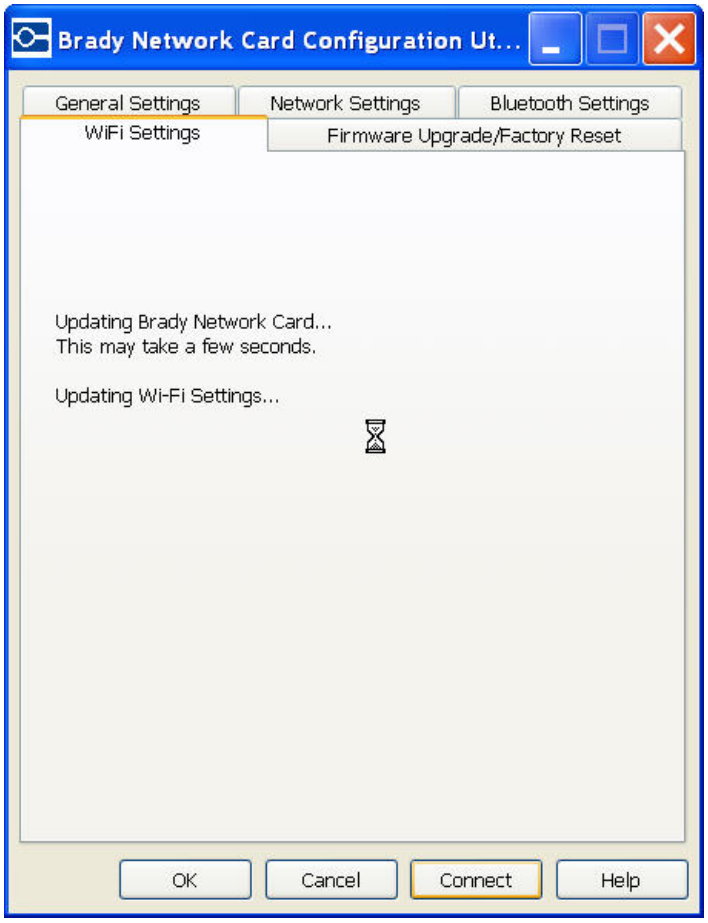


4. Click *Ad-hoc* radio button and enter SSID (network name) and channel. Leave Channel as Auto.



5. Click Connect.

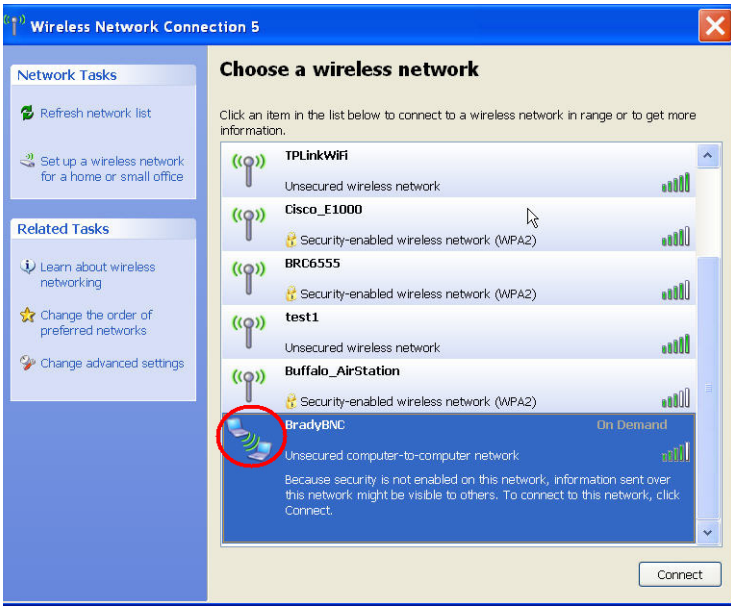
The WiFi settings update.



To view the wireless networks detected by the PC:

6. Choose **Start>Connect To>Wireless Network Connection>View Wireless Networks.**
7. Click the SSID (network name) entered earlier. The icon indicates that it is a peer-to-peer connection.
8. Click Connect.

The adhoc connection is established.



Install Network Driver

To install network drivers, refer to Steps 1 through 13 of Installation of Additional PCs (starting on *page 26*).

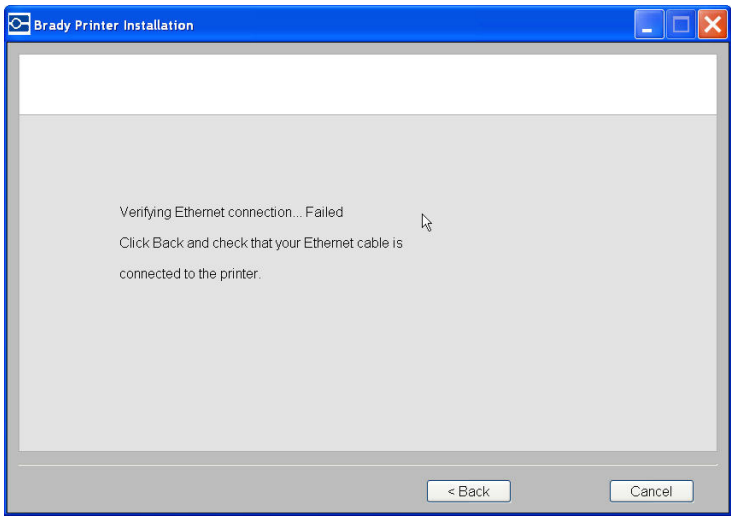
Troubleshooting

Ethernet Connection Failed

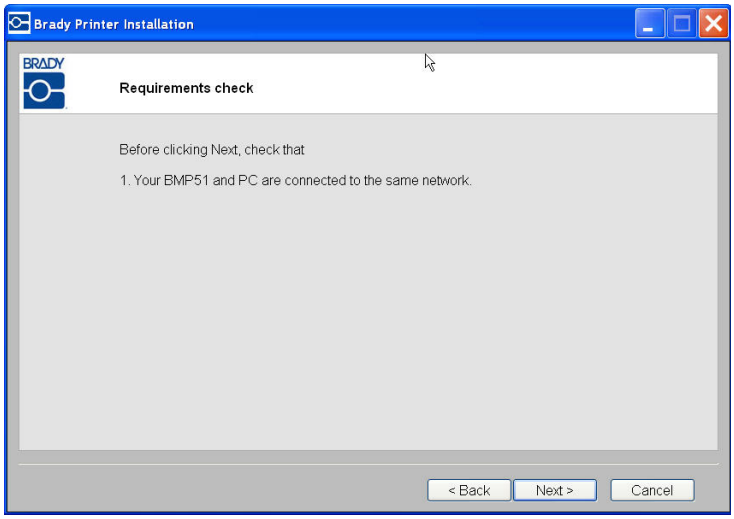
If Ethernet connection fails, an error message displays.

The Ethernet connection could have failed due to the PC and printer not being on the same network.

1. Click Back.



2. Verify that your printer and PC are connected to the same network. (Refer to the connection diagram on *page 20*.)
3. Click Next to continue with installation.

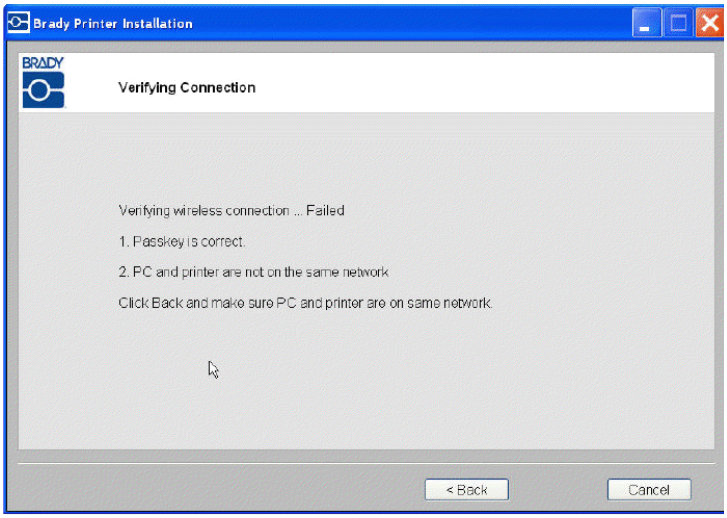


> **Note:** If the same network has been selected and the connection still fails, your PC and printer may be on different subnets, or a firewall is blocking the connection. In this case, contact your network administrator.

WiFi Connection Failed

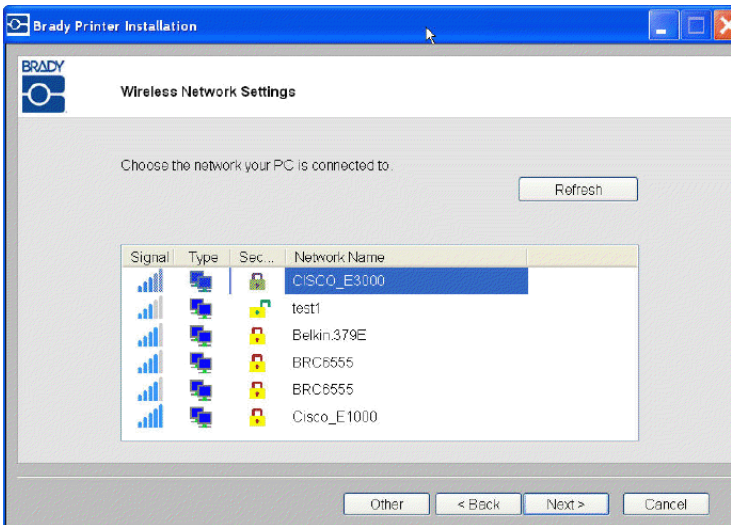
WiFi connection can fail for two reasons:

1. The PC and printer are not on the same network.
2. A wrong passkey or security code was entered.



PC and printer not on same network

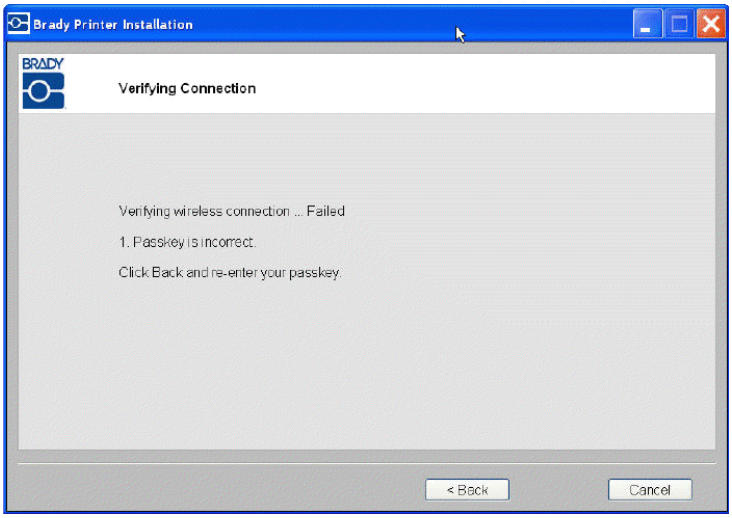
1. Click Back.
2. Select the same network to which your PC is currently connected.
3. Click Next to continue with installation.



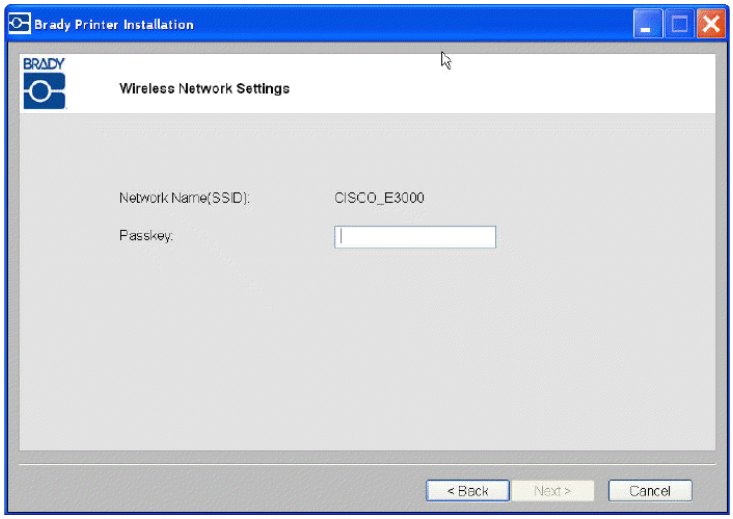
Note: If the same network has been selected and connection still fails, your PC and printer may be on different subnets, or a firewall is blocking the connection. In this case, contact your network administrator.

Wrong passkey or security mode

1. Click Back

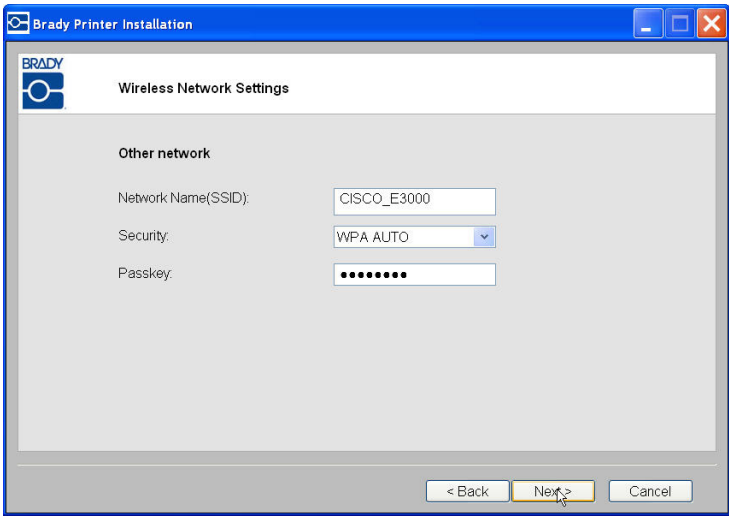


2. Re-enter the correct passkey.



Note: If you selected 'Other' in the network list, you need to enter the security mode as well.

3. Click Next to continue with installation.



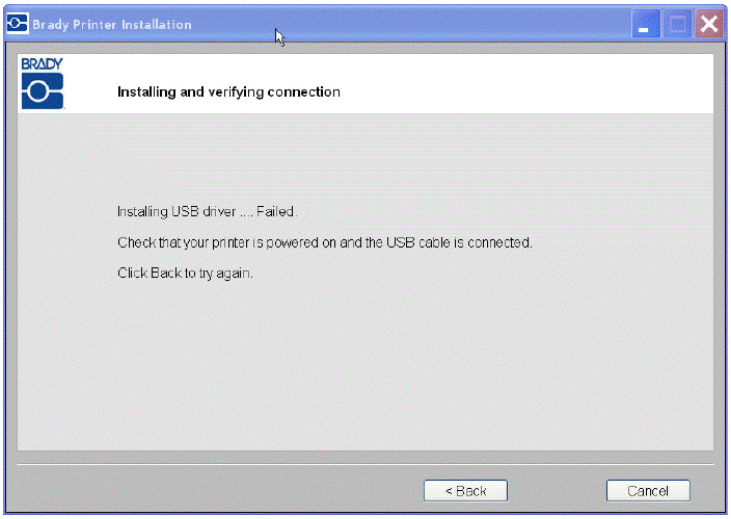
USB Connection Failed

The USB connection could fail for two reasons:

- The printer is powered OFF.
- The USB cable is not connected.

If the connection has failed:

1. Click Back.
2. Power ON the printer and connect the USB cable.
3. Click Next to try again.



Brady Network Card Configuration Utility

When the network drivers are installed, a configuration utility is also installed and is automatically placed in Programs under the Start button of your Windows program. Use the configuration utility to adjust or change the configuration you initially installed.

To access the utility:

1. Choose **Start>Programs>Brady>Brady Network Card>Brady Network Card Configuration Utility**.

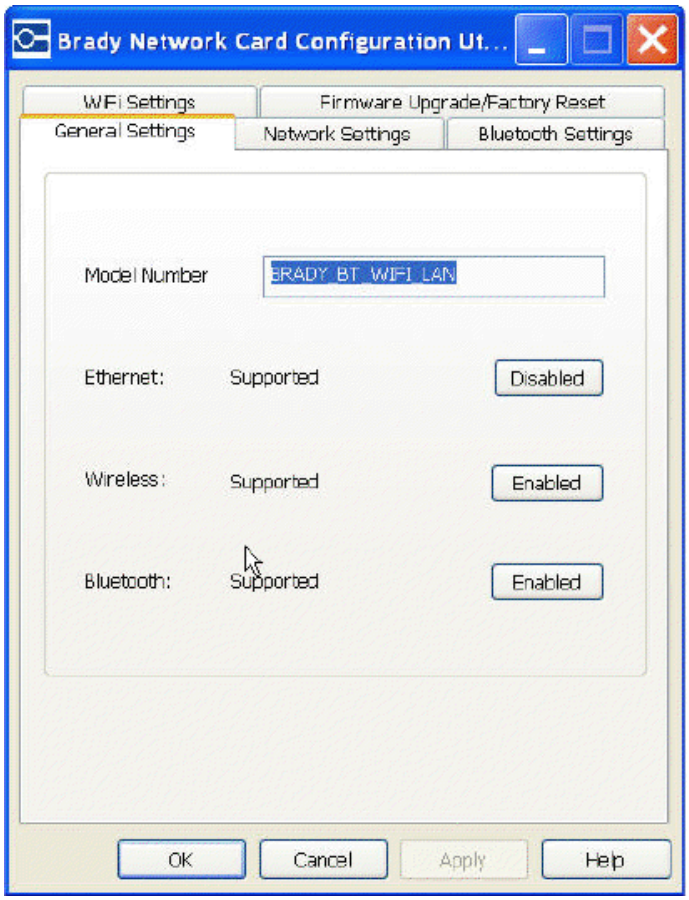
One dialog box is displayed, with multiple tabs.

General Settings

On the General Settings tab, the model number of the Brady Network Card is identified and the previously defined connections listed.

To change the status of each supported configuration:

1. Click the Enabled/Disabled button to change the current state of the connection.
2. Click OK to accept changes and exit the dialog box.

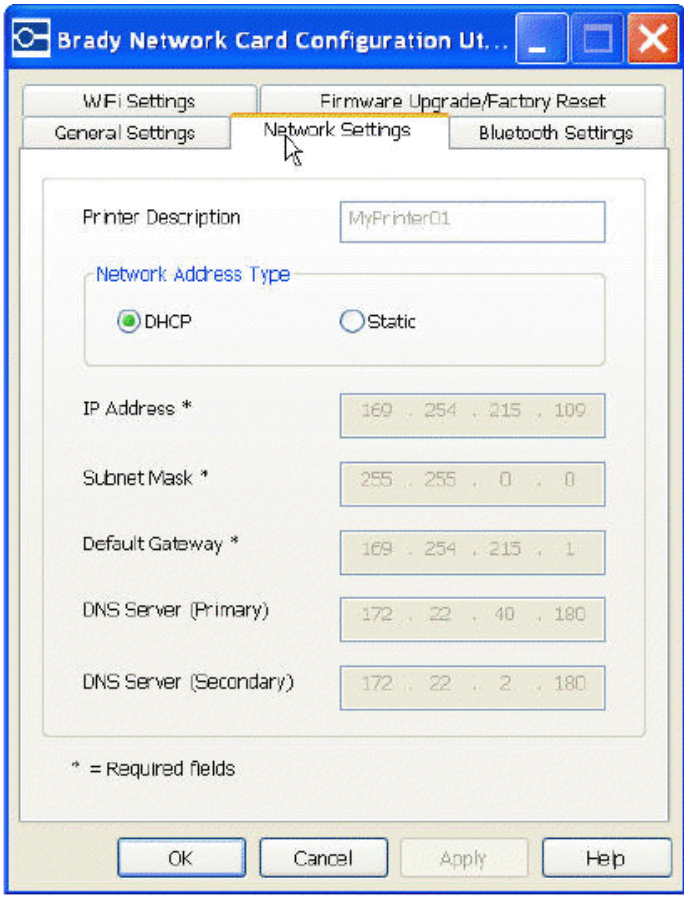


Network Settings

The Network Settings tab displays the unique name you gave to the printer and the Address Type used by it.

DHCP is the recommended setting.

If Static is selected, the IP Address, Subnet Mask, and Default Gateway fields are required.



WiFi Settings

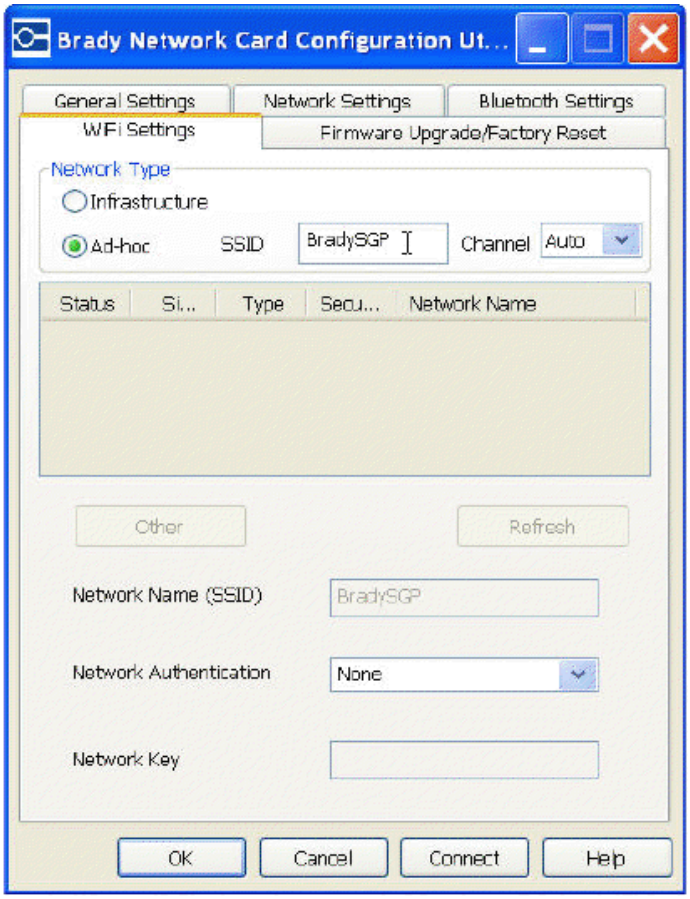
The WiFi Settings tab displays:

- The network type - Infrastructure vs. Adhoc.
- The currently connected network.
- Security settings for the currently connected network.

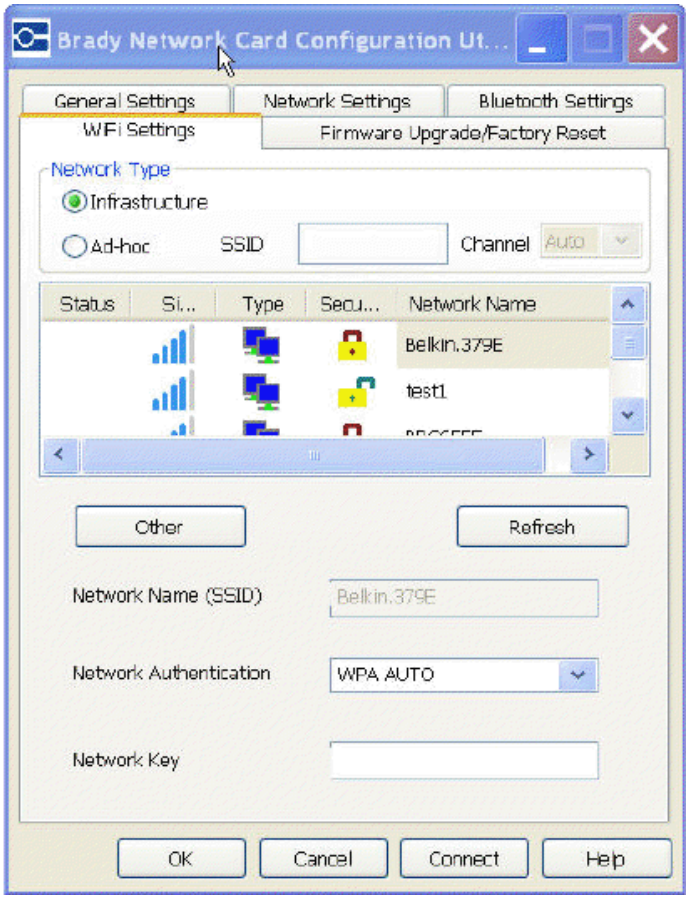
Infrastructure is selected when your printer is connected to the PC using a router. This is the most common case.

Select Ad-hoc if you wish to connect your printer to the PC directly without a router.

You must supply the SSID (network name) and channel.

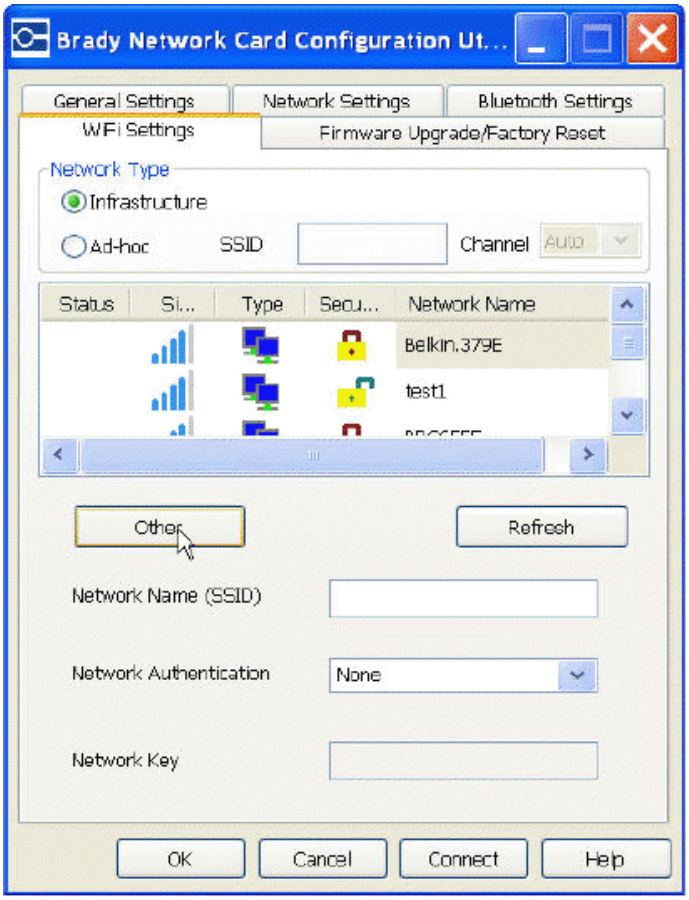


If you select a network from the list, you must also enter the network mode OR re-enter the network passkey. The Network Name (SSID) field is non-editable.



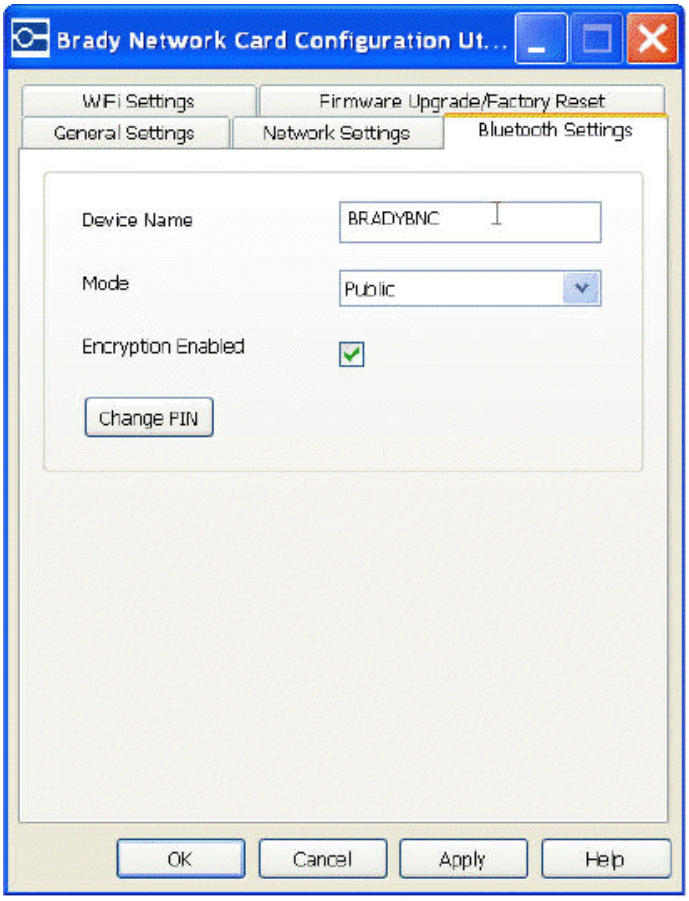
If you click Other, you can specifiy a Network name.

1. Click OK to accept changes and exit the dialog box.



Bluetooth Settings

The Bluetooth Settings tab displays the generic device name of the Bluetooth configuration installed in your printer. The default name is Brady. You can change the default name and PIN on this tab.



Name

To change the name:

1. In the *Device Name* field, highlight the default name, then enter a new name directly over the highlighted text.

Mode

1. Click the down arrow in the *Mode* field to select the mode of operation of your Bluetooth connection.

Public - The Brady Network Card can be discovered and connected to by any Bluetooth device.

Private - The Brady Network Card cannot be discovered by new Bluetooth devices but it can be connected.

Off - The Brady Network Card cannot be discovered or connected.

PIN

A PIN is required for Bluetooth connection. The default PIN is 0000. If you wish to change the PIN:

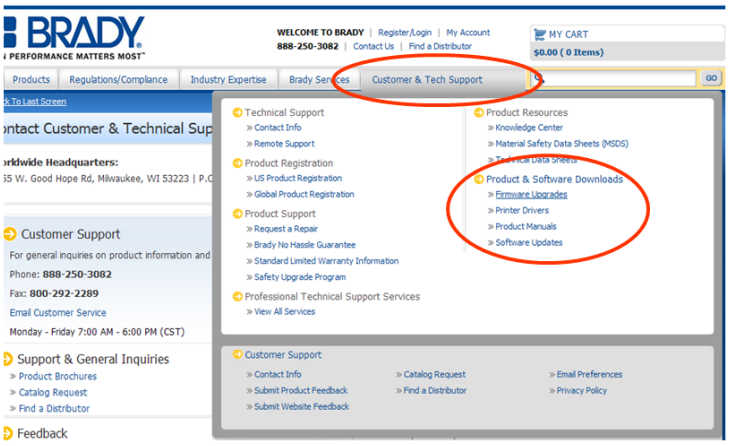
1. Click Change Pin button.
2. In the *New PIN:* field, enter the new PIN.
3. In the *Confirm PIN:* field, re-enter the new PIN.
4. Click OK to accept the new PIN and return to the Bluetooth Settings tab.
5. Click OK again to accept changes and exit the dialog box.

Firmware Upgrade/Factory Reset

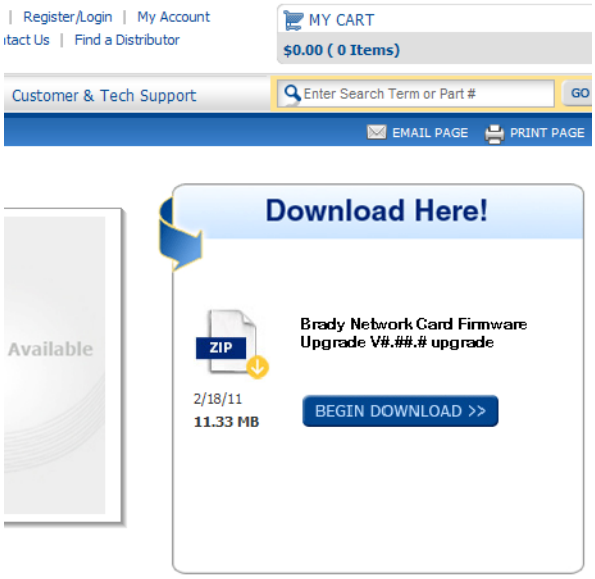
When new versions of firmware become available, you can upgrade Brady Network Card through the Firmware Upgrade/Factory Reset tab of the Configuration Utility.

To upgrade firmware:

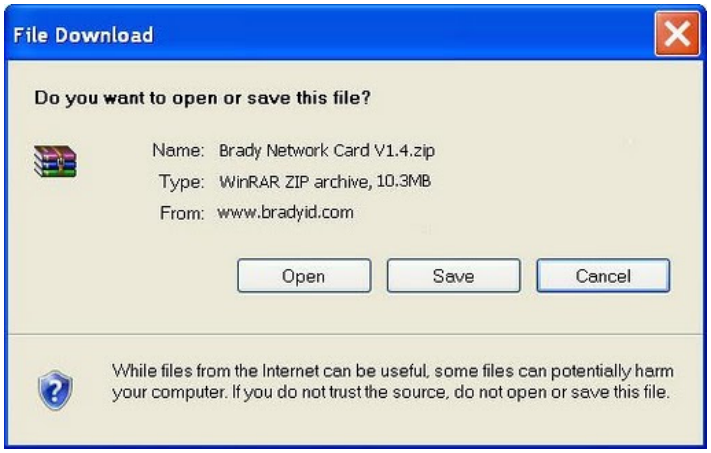
1. Access the Brady website at www.bradyid.com.
2. Click Customer & Tech Support
3. Under Product & Software Downloads, click the the Brady Network Card firmware upgrade.



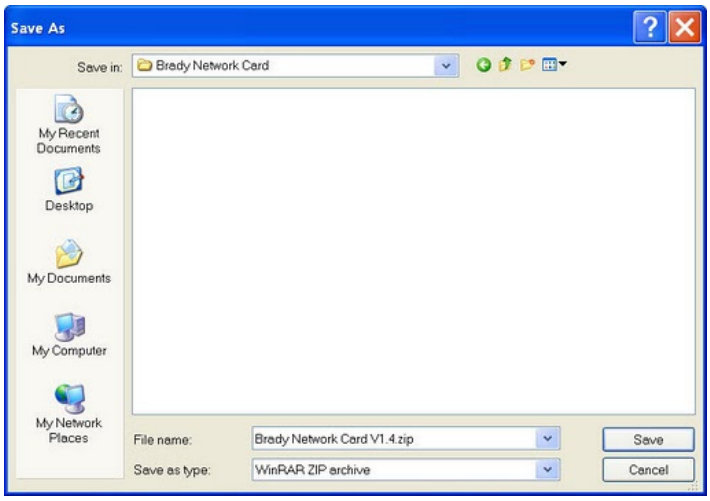
4. In the list presented, click the upgrade you wish to download, then click BEGIN DOWNLOAD >> button.



5. On the File Download screen, click Save.



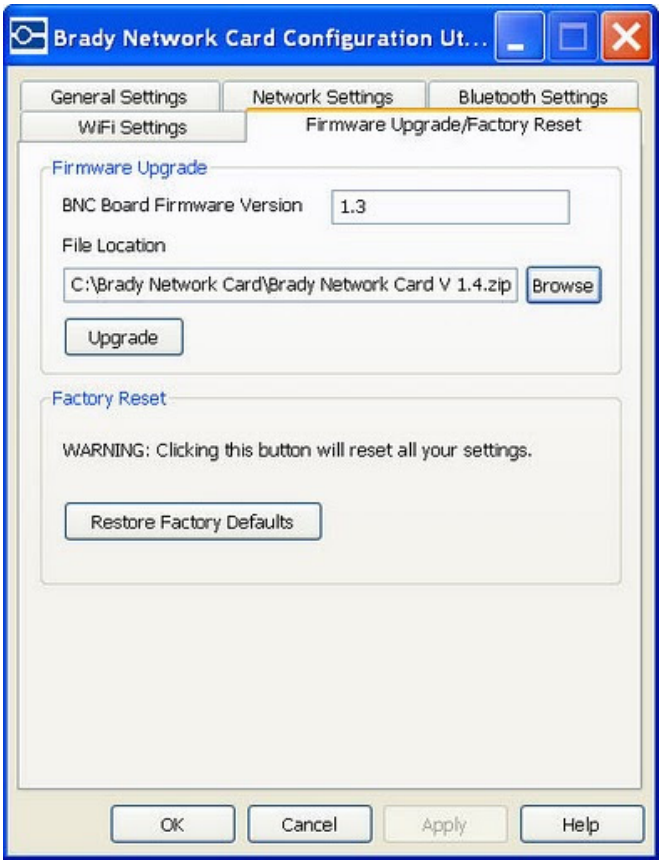
6. Using standard Windows procedures, determine the directory in which you want to save the download data.



7. On the Firmware Upgrade tab of the Configuration utility screen, click Browse button.
8. Find the directory in which you saved the download ZIP file, then click Open.
9. On the Firmware Upgrade/Factory Reset tab, click Upgrade button.

The upgrade program information is automatically installed on your system.

10. Click OK to accept changes and exit the dialog box.



Factory Reset

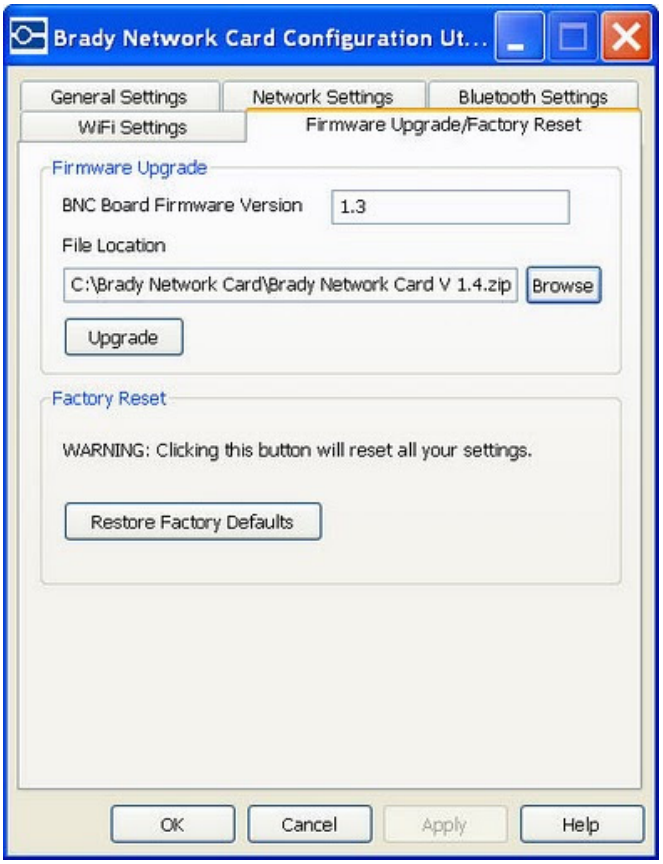
If you want to return all settings to the original Factory settings (defaults):

1. On the Firmware Upgrade/Factory Reset tab of the Configuration Utility, click Reset to Factory Defaults button.

A warning message displays indicating all previous defined settings will be removed.

2. Click OK on the warning message.
3. Click OK on the dialog box to accept the changes and exit the dialog box.

The previous settings are removed. You can now reconfigure the network and card configurations.



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Portions of the Brady Network Card are based on the following software libraries.

BlueZ - Bluetooth protocol stack for Linux
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Copyright (C) 2002-2006 Marcel Holtmann marcel@holtmann.org

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Perl Kit, Version 5
Copyright (C) 1993, 1994, 1995, 1996, 1997, 1998, 1999,2000, 2001, 2002, 2003, 2004, 2005, 2006 by Larry Wall and others

zlib/libpng
Copyright (C) 1995-2004 Jean-loup Gailly and Mark Adler.

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Version 2, June 1991

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