

Brady Network Printer Connectivity

Configuration Guide

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Introduction

If your Brady printer comes with built-in networking capabilities, use the following procedure to set up communications:

- Install the printer driver. (This is unnecessary if you are using Brady Workstation software. Brady Workstation software can communicate to the printer without a printer driver.)
- Configure communications using the network configuration utility provided with the printer.

Printers and Networks Supported

Please refer to your printer manual to determine if it has built-in networking capabilities. Built-in networking potentially supports WiFi, WiFi Direct, and Ethernet network types, although the exact types supported vary based on your printer.

Communication Configuration

If your Brady printer has built-in networking, you can configure the printer to run as a local printer (physically attached to your computer 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 printer 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 configuring network communication. The printer drivers can also be downloaded from Brady websites such as www.bradyid.com or www.bradyeurope.com.

The printer driver installation and configuration wizard identifies three different installation scenarios. They are:

- Installation for Ethernet printing
- Installation for WiFi printing
- Installing the USB driver only

Installation for Ethernet Printing

Use this installation process if you intend to send print jobs to the printer from a PC using Ethernet or over a LAN network.

The printer 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 driver CD into the CD drive of your computer.

The installation wizard launches automatically.

3. Click Install.



4. From the drop down list, select your language, then click **Next**.



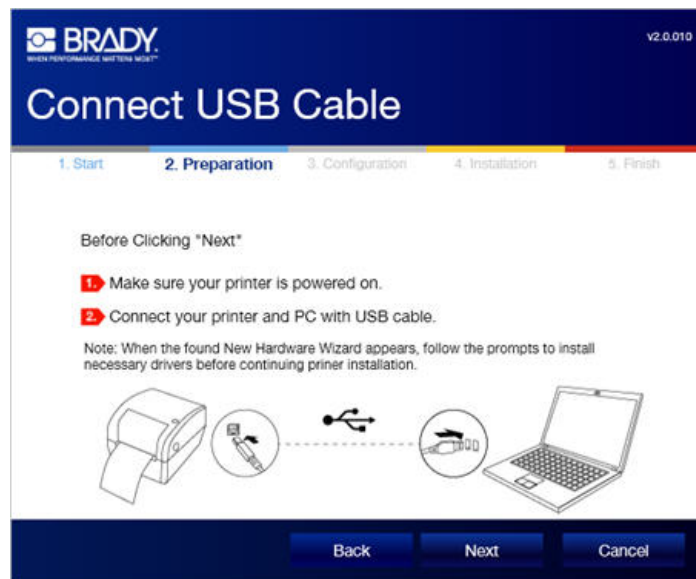
5. Click the printer model you are installing, then click **Next**.



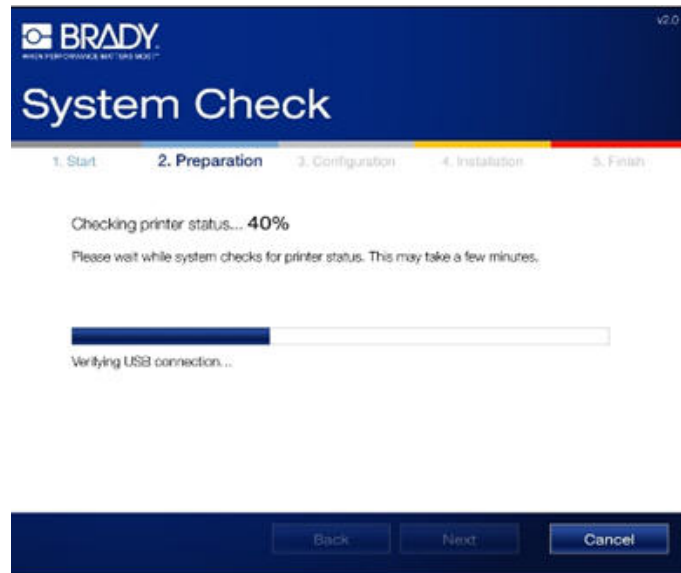
Check that your printer is powered on.

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

An *Installing device driver software* notification message displays when the USB cable is connected. The printer driver installs automatically.



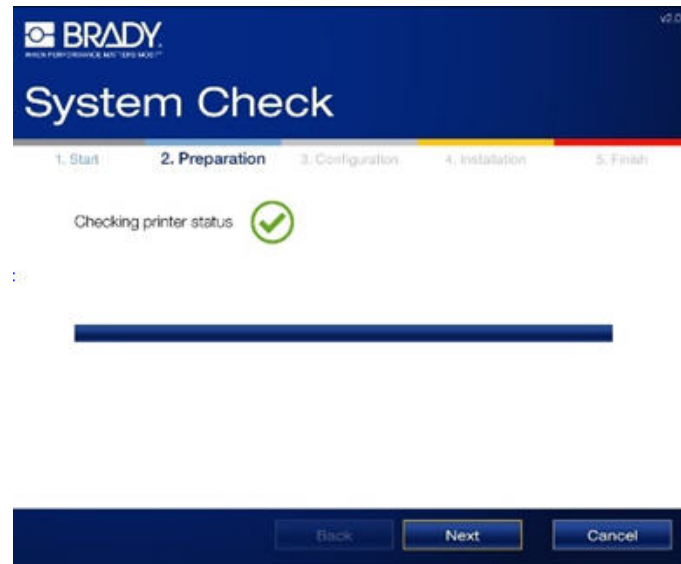
7. The printer status is checked. When finished, click **Next**.



When the status of the printer has been successfully completed, a checkmark displays on the System Check screen.

8. Click **Next**.

The connection is installed and verified



6 | Communication Configuration

Installation for Ethernet Printing

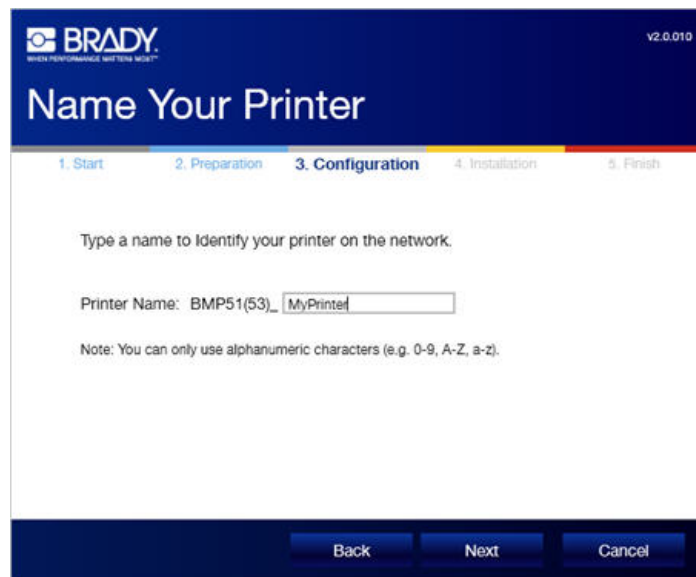
A list of connection types is shown. To activate Ethernet:

9. Click **Wired network connection**, then click **Next**.



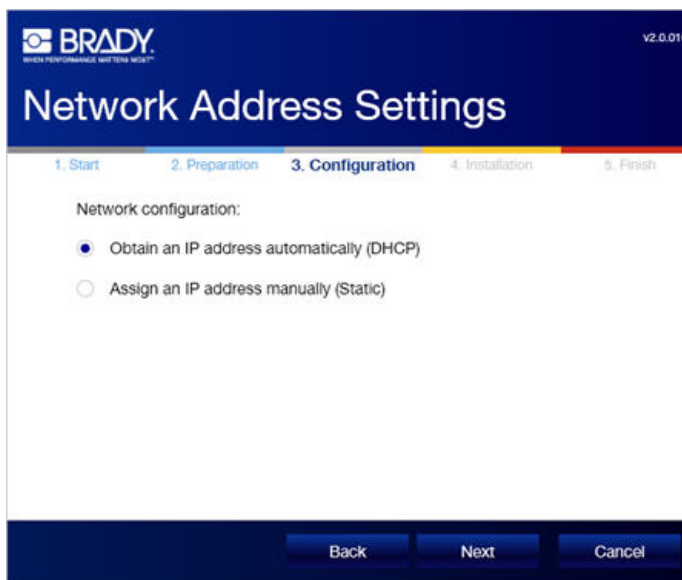
10. In the *Printer Name* field, enter a descriptive name for this network connection. You can use up to 12 alphanumeric characters.

11. Click **Next**.



In the *Network configuration* field, the default DHCP protocol is recommended. If using DHCP:

12. Ensure that *Obtain an IP address automatically (DHCP)* is selected, then click **Next**.

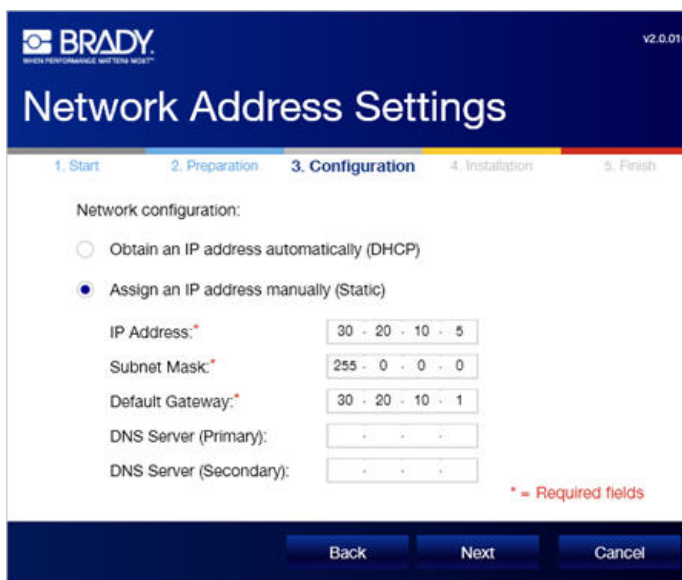


The screenshot shows the 'Network Address Settings' window for a Brady printer. The window has a blue header with the Brady logo and version 'V2.0.010'. Below the header is a progress bar with five steps: 1. Start, 2. Preparation, 3. Configuration (highlighted), 4. Installation, and 5. Finish. The main content area is titled 'Network configuration:' and contains two radio button options: 'Obtain an IP address automatically (DHCP)' (which is selected) and 'Assign an IP address manually (Static)'. At the bottom of the window are three buttons: 'Back', 'Next', and 'Cancel'.

Using Static Network Address Type

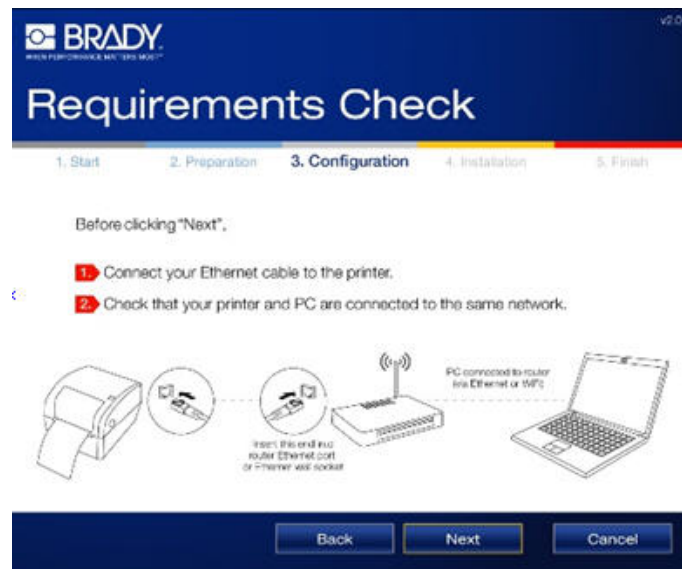
If you want to use the Static network address type, the IP Address, Subnet Mask and Default Gateway fields are required. You can obtain this information from your network administrator. To use Static:

13. Click *Assign an IP address manually (Static)* radio button. This opens the required fields for input of addresses.
14. Click the *IP Address* field and enter the desired IP address. The cursor jumps automatically to the separate sections of the IP Address field.
15. Click the *Subnet Mask* field and enter the subnet mask.
16. Click the *Default Gateway* field and enter the gateway address.
17. When ready, click Next.



The screenshot shows the 'Network Address Settings' window with the 'Assign an IP address manually (Static)' radio button selected. Below the radio buttons, there are five input fields: 'IP Address:', 'Subnet Mask:', 'Default Gateway:', 'DNS Server (Primary):', and 'DNS Server (Secondary):'. Each of the first three fields has a red asterisk next to it, indicating they are required. The IP Address field contains '30 - 20 - 10 - 5', the Subnet Mask field contains '255 - 0 - 0 - 0', and the Default Gateway field contains '30 - 20 - 10 - 1'. The DNS Server fields are empty. A red legend at the bottom right states '* = Required fields'. At the bottom of the window are three buttons: 'Back', 'Next', and 'Cancel'.

Be sure that your Ethernet cable is connected to the printer, and that your printer and PC are connected to the same network.



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

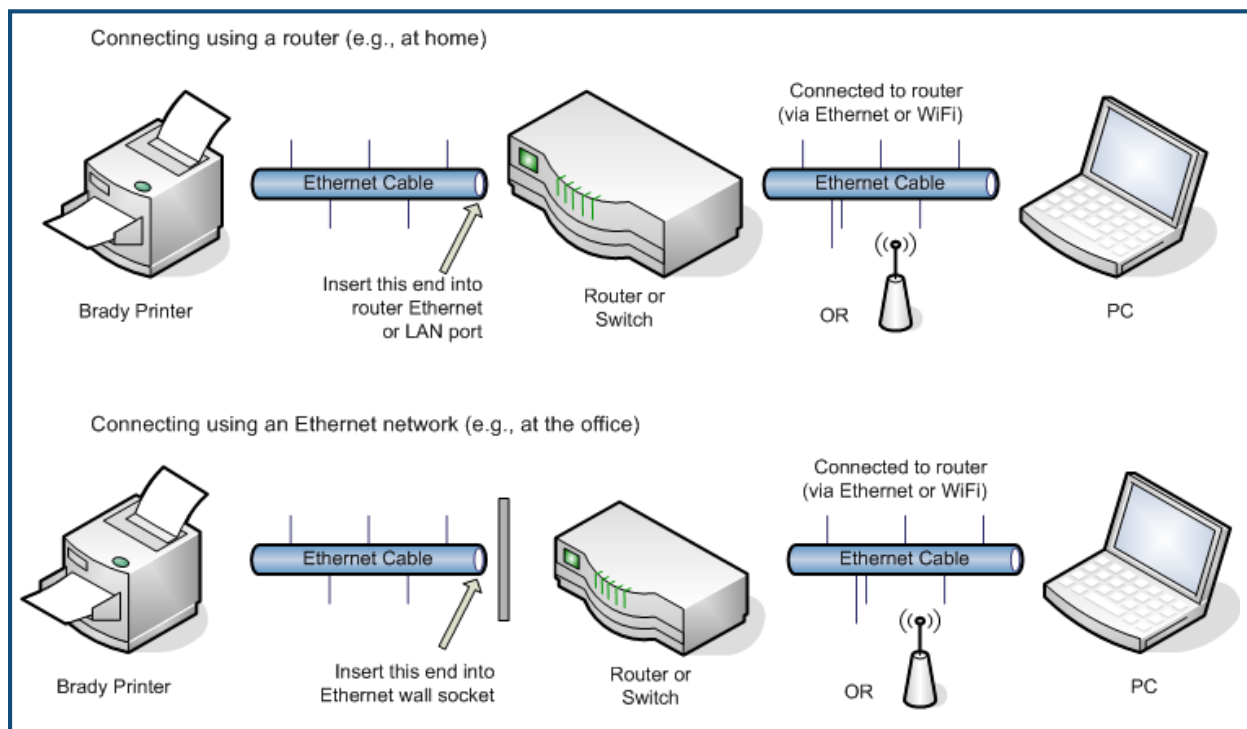
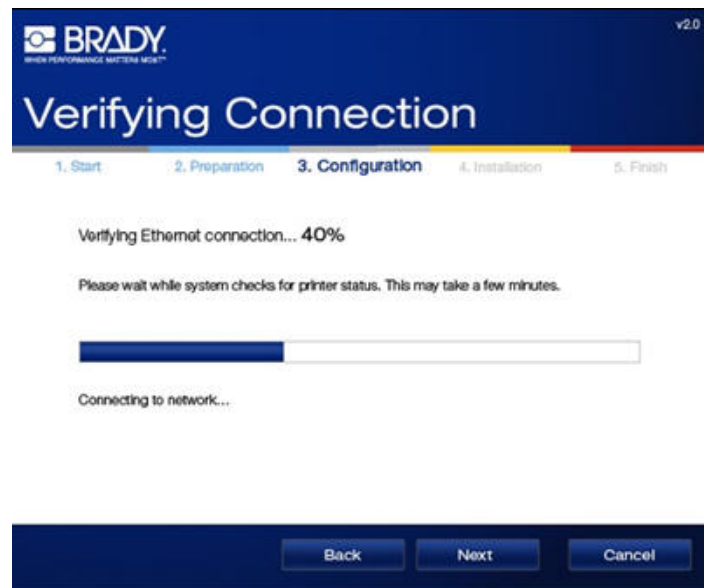


Figure 1 • Network connections

18. Click Next.

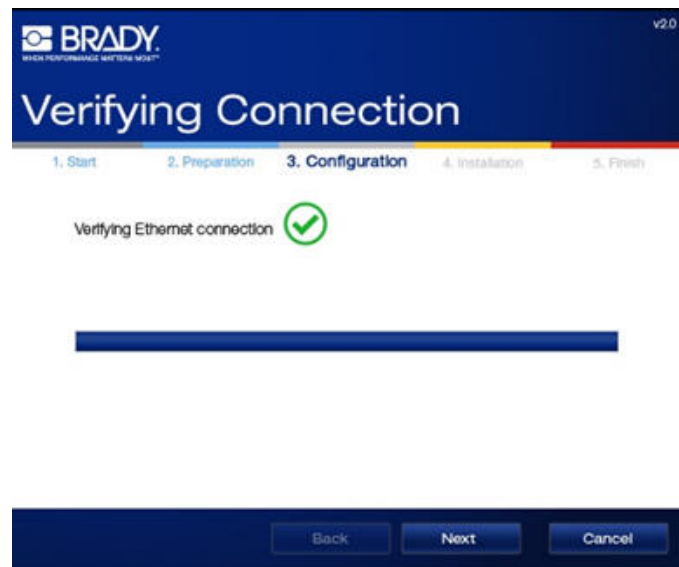
The Ethernet connection is verified.



19. If the connection is successful, click Next.

If you used the default DHCP setting in [step 12](#) on [page 7](#) with the PC and printer on the same subnetwork, continue with [step 20](#) to install the Bonjour Print Services software.

If you used Static in [step 13](#) on [page 7](#), the network printers have already been established and are tagged to the IP address you entered in [step 14](#) on [page 7](#). Proceed to [step 23](#) on [page 10](#).

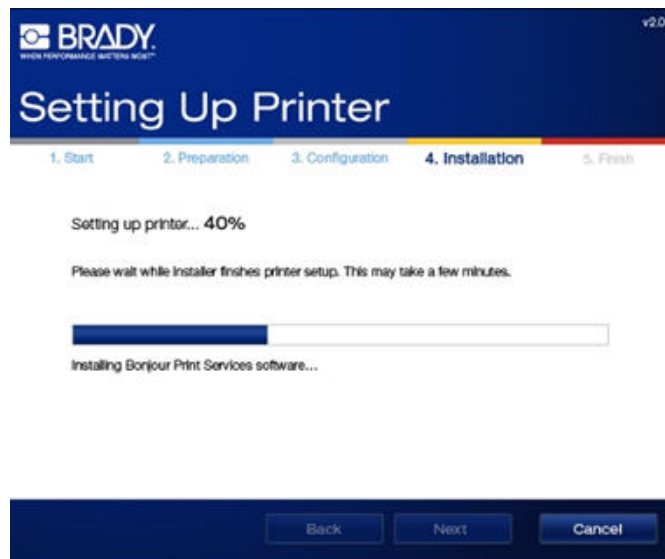
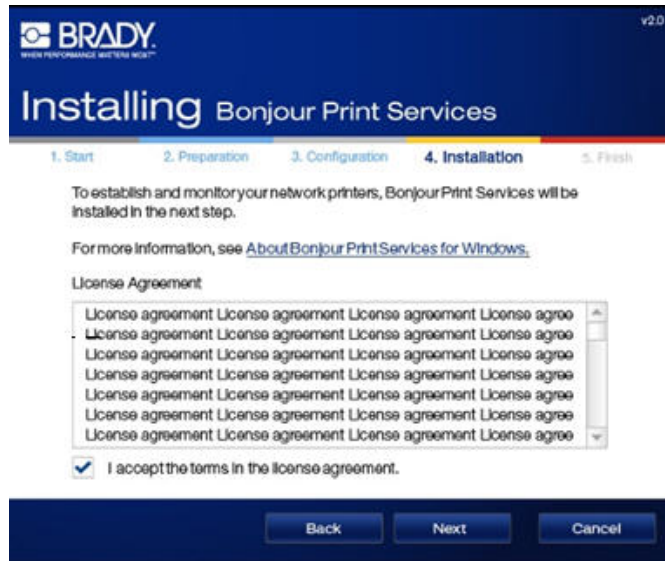


Bonjour Print Services

The Bonjour program is designed to establish and monitor network printers.

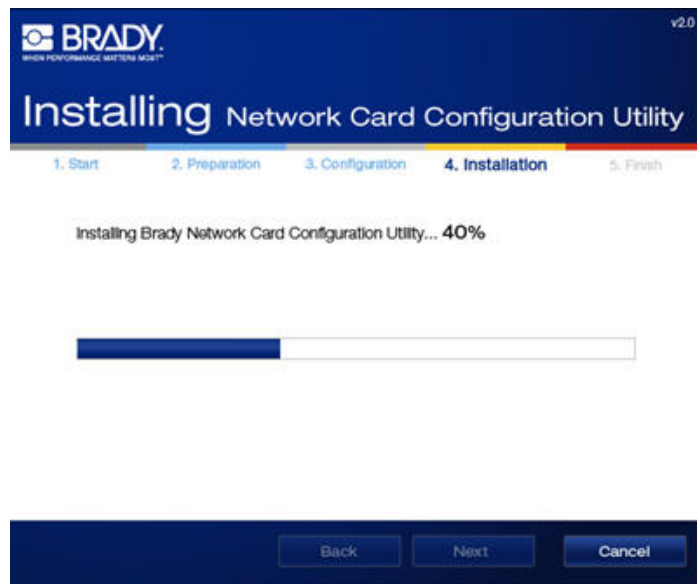
The Apple End User License Agreement is shown.

20. After reading it, click *I accept the terms in the license agreement*, then click Next to continue.
 21. To get more information on Bonjour Services, click "About Bonjour Print Services for Windows" hyperlink on the screen. Then click Back to return to the License Agreement screen.
 22. When ready, click Next to install the software as well as the network printer driver.
- The printer driver is installed.
23. When printer setup is successfully completed, click Next.



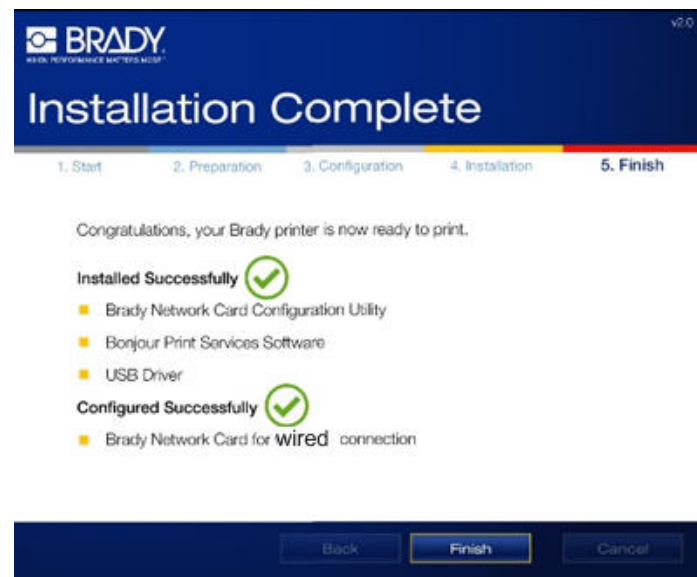
24. Click Next.

The Brady network configuration utility is installed.



The Brady Printer Installation is completed.

25. Click Finish to exit the wizard.



Installation for WiFi Printing

Use this installation process if you intend to send print jobs to the printer from a PC using a WiFi network.

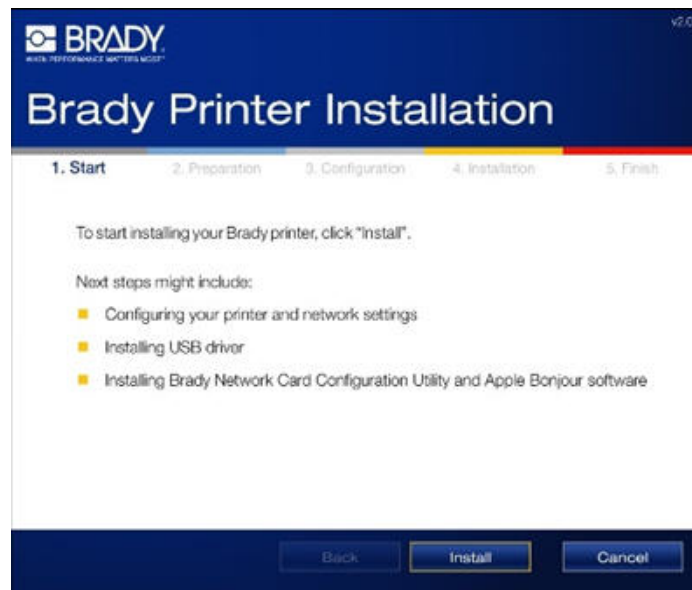
If using WiFi Direct, follow these steps and then complete the WiFi Direct setup using the Brady network configuration utility. See [Brady Network Configuration Utility on page 32](#) and [WiFi Direct Settings on page 40](#).

To configure your network-enabled Brady printer for WiFi and install the printer driver, 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. Click Install.



4. From the drop down list, select your language, then click Next.



5. Click the printer model you are installing, then click Next.



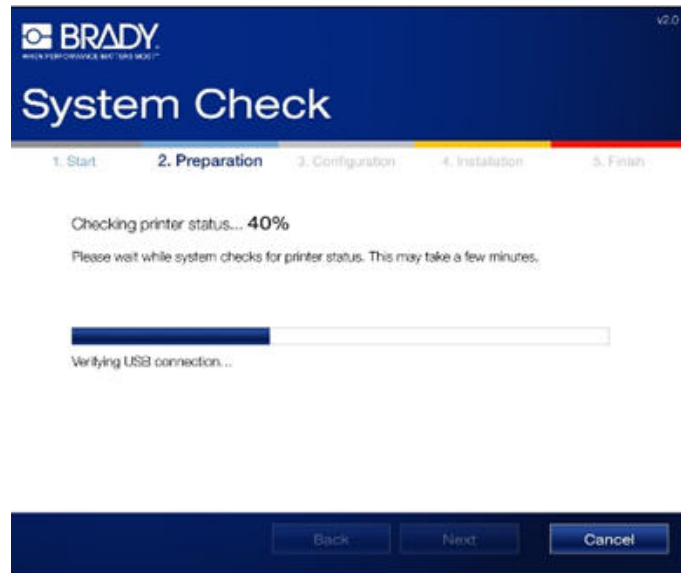
Check that your printer is powered on.

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

An *Installing device driver software* notification message displays when the USB cable is connected. The printer driver installs automatically.



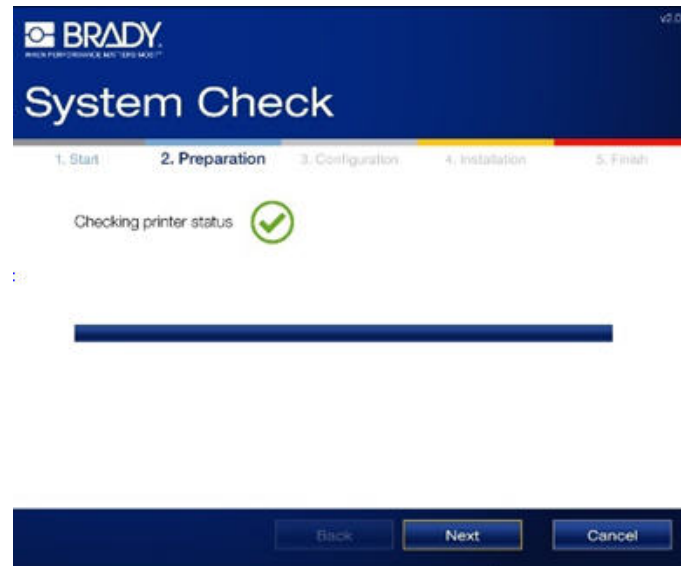
7. The printer status is checked. When finished, click Next.



When the status of the printer has been successfully completed, a checkmark displays on the System Check screen.

8. Click Next.

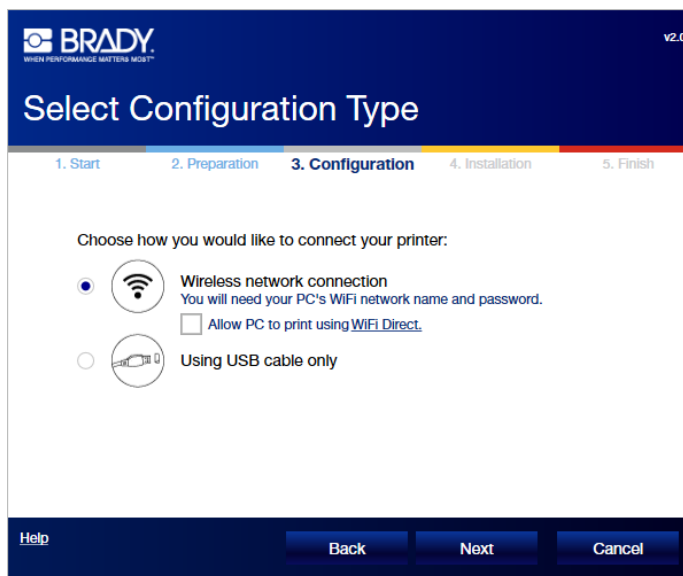
The connection is installed and verified



A list of connection types is shown. To activate WiFi:

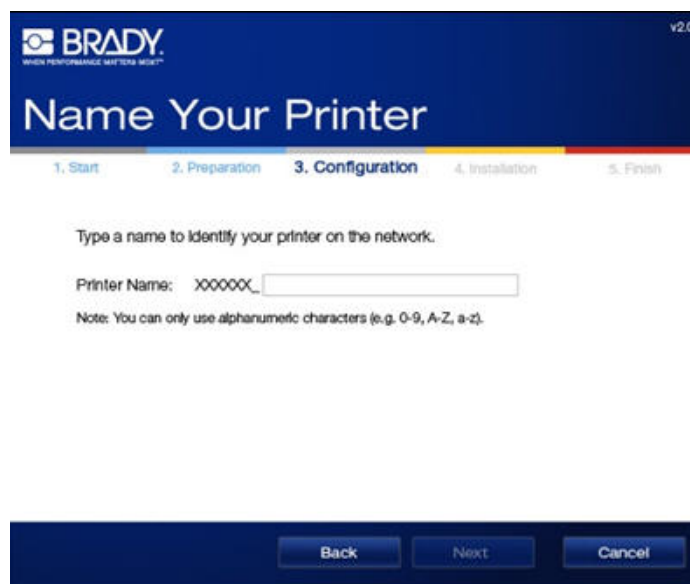
9. Click **Wireless network connection**, then click **Next**.

Note: WiFi Direct is a peer-to-peer connection that enables a PC or mobile device to connect to the printer wirelessly, without a router. Even if you select the WiFi Direct check box, you still must configure WiFi Direct settings. See *Brady Network Configuration Utility on page 32* and *WiFi Direct Settings on page 40*



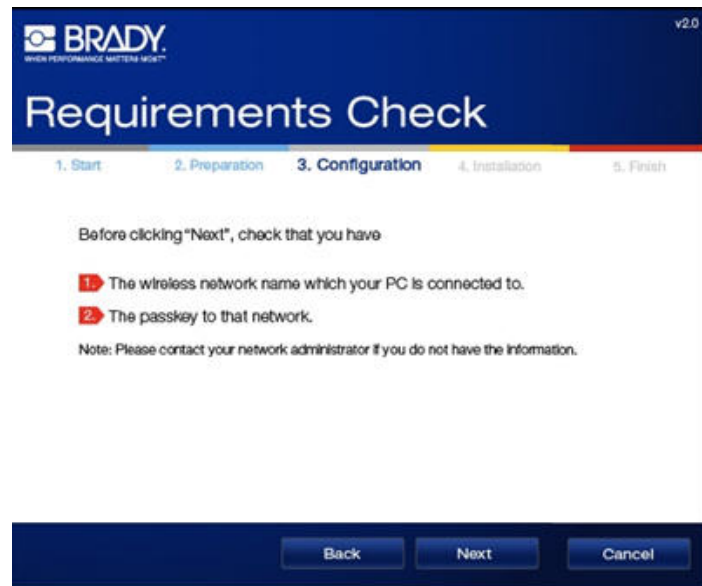
10. In the *Printer Name* field, enter an easy-to-identify name/description for this network connection. You can use up to 12 alphanumeric characters.

11. Click **Next**.



Ensure that you have the name of the wireless network to which your PC is connected, and the password to that network.

12. When ready, click Next.



13. On the Wireless Network Setting screen, choose the network that your PC is currently connected to, then click Next.

Note: If you do not see your network in the list, click **Refresh**.

If you still do not see your network in the list, click **Others** to manually specify a network.

To name another network, proceed to [step 20](#) on [page 19](#).



The network-enabled printer can be configured for both a Personal network connection and an Enterprise network connection.

A Personal Network, also known as WPA PSK, is usually used by homes and small offices. The network is protected by a password that is specified by the user.

An Enterprise Network, also known as WPA-802.1X (or just WPA), is used by larger enterprises and requires a RADIUS server. The server generates the passkey.

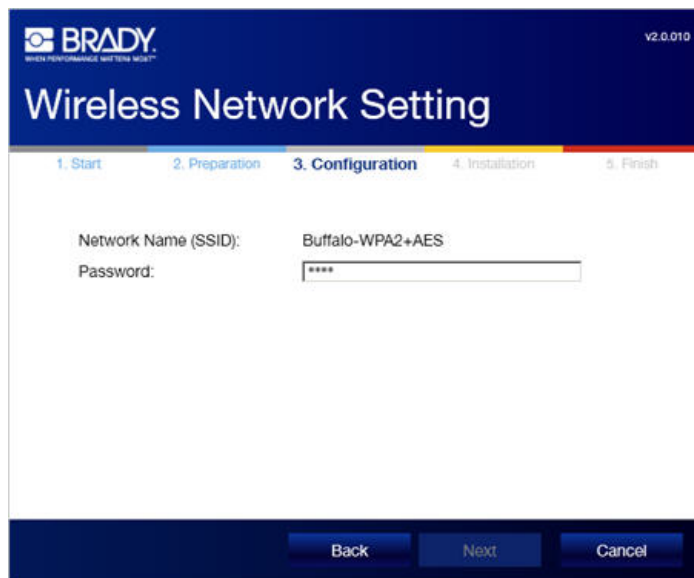
Note: The installer automatically detects whether the network you have selected is a Personal network or an Enterprise network.

If the wireless network you have selected from the list is a Personal network, on the Wireless Network Setting screen:

14. Enter the password for the selected network.

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

15. Click Next.



If the wireless network you have selected from the list is an Enterprise network:

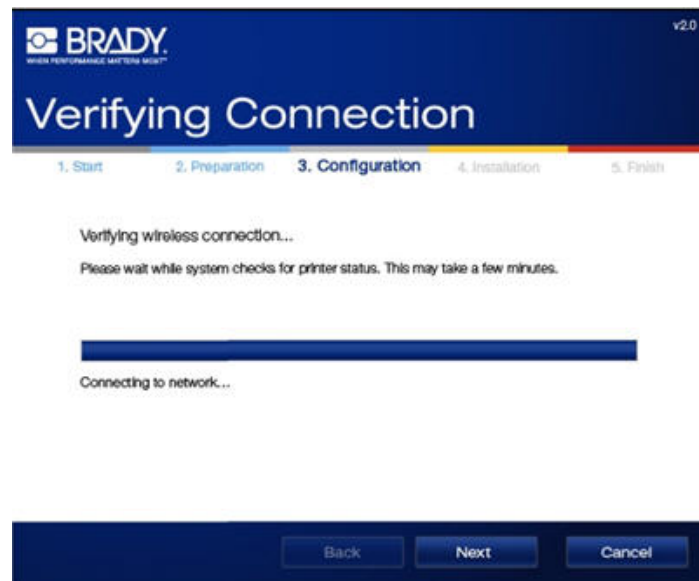
16. Click the down arrow and select the *Authentication Type*. (If you do not know the Authentication Type, check with your network administrator.)
17. Enter the username and password, if applicable. Check with your network administrator to determine if a username has already been assigned to you.

Note: Depending on the Authentication Type selected, a Username, Password, and Certificates may, or may not, be required. Refer to the Authentication Table on [page 19](#) for more information.

18. When ready, click Next.
- The wireless connection is verified.
19. Click Next.



The image shows the 'Wireless Network Setting' screen from the Brady printer configuration utility, version 2.0. The screen has a dark blue header with the Brady logo and the text 'WHEN PERFORMANCE MATTERS MOST'. Below the header is a progress bar with five steps: 1. Start, 2. Preparation, 3. Configuration (highlighted in yellow), 4. Installation, and 5. Finish. The main content area contains several fields for network configuration: 'Network Name (SSID):' with a placeholder '<Wireless Network Name>', 'Security:' with a placeholder '<Security>', 'Authentication Type:' with a dropdown menu showing 'EAP-TLS', 'Username:' with a text box, 'Private Key Password: (Optional)' with a text box, 'Certificate authority: (Optional)' with a text box and a 'Browse' button, 'Client certificate:' with a text box and a 'Browse' button, and 'Client private key' with a text box and a 'Browse' button. At the bottom of the screen are three buttons: 'Back', 'Next', and 'Cancel'.



The image shows the 'Verifying Connection' screen from the Brady printer configuration utility, version 2.0. The screen has a dark blue header with the Brady logo and the text 'WHEN PERFORMANCE MATTERS MOST'. Below the header is a progress bar with five steps: 1. Start, 2. Preparation, 3. Configuration (highlighted in yellow), 4. Installation, and 5. Finish. The main content area contains the text 'Verifying wireless connection...' and 'Please wait while system checks for printer status. This may take a few minutes.' Below this text is a blue progress bar. At the bottom of the screen are three buttons: 'Back', 'Next', and 'Cancel'.

Authentication Methods and Types

Brady network-enabled printers support various Authentication methods and types. The following table indicates the 802.1X Authentication Methods supported for WPA and WPA2 Enterprise Networks and the mandatory or required fields for the Authentication Type you use. Refer to this table when choosing the Authentication Type.

Authentication Type	Username	Pasword/ Private Key Password	CA Certificate (.DER, .PEM, .CER, CRT, .KEY)	Client Certificate (.DER, .PEM, .CER, CRT, .KEY, .PFX)	Client Key
EAP-PEAP-MSCHAPV2	Mandatory	Mandatory	Optional	Not Required	Not Required
EAP-TTLS-MSCHAPV2	Mandatory	Mandatory	Optional	Not Required	Not Required
EAP-TLS (If client certificate is NOT in .PFX format)	Mandatory	Not Required	Optional	Mandatory	Mandatory
EAP-TLS (If client certificate is in .PFX format)	Mandatory	Mandatory	Optional	Mandatory	Not Required

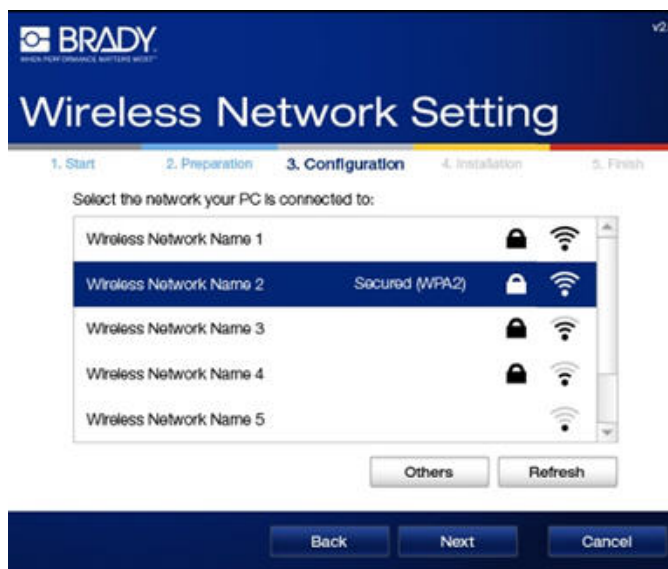
Table 1. Authentication Type

Defining Other Networks

When defining Other networks, you must know your network name (SSID), the security applied, and a password, if applicable. You can obtain this information from your network administrator.

To name another network:

20. On the Wireless Network Settings screen, click **Others**.



21. On the *Other* network screen, click the radio button, Personal Network or Enterprise Network, that best describes this network.

The screenshot shows the 'Wireless Network Setting' v2.0 interface. At the top, the Brady logo and tagline 'WHEN PERFORMANCE MATTERS MOST' are visible. Below the title, a progress bar indicates five steps: 1. Start, 2. Preparation, 3. Configuration (current), 4. Installation, and 5. Finish. The 'Other network' section contains two radio buttons: 'Personal Network' (selected) and 'Enterprise Network'. Below these are three input fields: 'Network Name (SSID):', 'Security:' (with a dropdown arrow), and 'Password:'. At the bottom, there are three buttons: 'Back', 'Next', and 'Cancel'.

Personal Network

22. If you click Personal Network, enter the Network Name (SSID)
23. In the Security field, click the down arrow and select the security type.

Depending on the Security selected, you may or may not have to supply a password.

Note: You do not have to supply an Authentication Type for Personal Networks.

This screenshot shows the same 'Wireless Network Setting' v2.0.019 interface, but with the 'Personal Network' radio button selected. The 'Network Name (SSID)' field now contains 'WPA'. The 'Security' dropdown menu is open, showing 'WPA TKIP' as the selected option. The 'Password' field is now visible and contains four dots. The 'Back', 'Next', and 'Cancel' buttons remain at the bottom.

Enterprise Network

If you click Enterprise Network:

24. Enter the Network Name (SSID)
25. In the Security field, click the down arrow and select the security type.
26. Click the down arrow and select the *Authentication Type*. (If you do not know the Authentication Type, check with your network administrator.)
27. Enter the username and password, if applicable. Check with your network administrator to determine if a username has already been assigned to you.

BRADY
WHEN PERFORMANCE MATTERS MOST™

Wireless Network Setting

v2.0

1. Start 2. Preparation 3. Configuration 4. Installation 5. Finish

Other network

☐ Personal Network ☒ Enterprise Network

Network Name (SSID): <Wireless Network Name>

Security: WPA/WPA2

Authentication Type: EAP-TLS

Username:

Private Key Password: (Optional)

Certificate authority: (Optional) Browse

Client certificate: Browse

Client private key: Browse

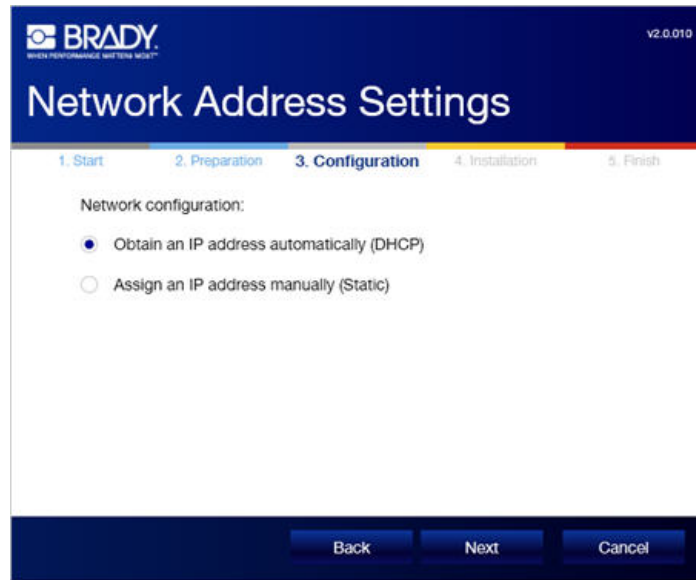
Back Next Cancel

Note: Depending on the Authentication Type selected, a Username, Password, and Certificates may, or may not, be required. Refer to the Authentication Table on [page 19](#) for more information.

28. When ready, click Next.

In the *Network configuration* field, the default DHCP protocol is recommended. If using DHCP:

29. Ensure the *Obtain an IP address automatically (DHCP)* radio button is selected, then click Next.

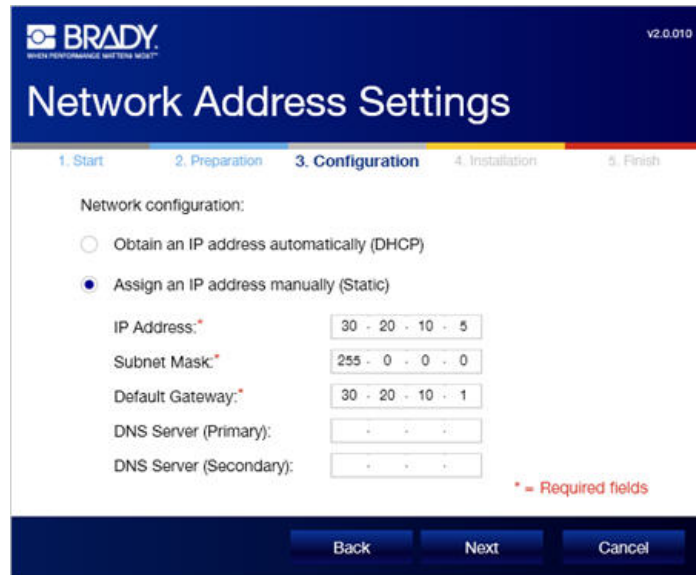


The screenshot shows the 'Network Address Settings' window for a Brady printer. The window has a blue header with the Brady logo and 'v2.0.010'. Below the header is a progress bar with five steps: 1. Start, 2. Preparation, 3. Configuration (highlighted), 4. Installation, and 5. Finish. The main content area is titled 'Network configuration:' and contains two radio buttons. The first radio button, 'Obtain an IP address automatically (DHCP)', is selected. The second radio button, 'Assign an IP address manually (Static)', is unselected. At the bottom of the window are three buttons: 'Back', 'Next', and 'Cancel'.

Using Static Network Address Type

If you want to use the Static network address type, the IP Address, Subnet Mask and Default Gateway fields are required. You can obtain this information from your network administrator. To use Static:

30. Click *Obtain an IP address manually (Static)* radio button. This opens the required fields for input of addresses.
31. Click the *IP Address* field and enter the desired IP address. The cursor jumps automatically to the separate sections of the IP Address field.
32. Click the *Subnet Mask* field and enter the subnet mask.
33. Click the *Default Gateway* field and enter the gateway address.
34. When ready, click Next.



The screenshot shows the 'Network Address Settings' window for a Brady printer, similar to the previous one but with the 'Assign an IP address manually (Static)' radio button selected. Below the radio buttons are five input fields, each with a red asterisk indicating it is a required field. The fields are: 'IP Address:' with the value '30 - 20 - 10 - 5', 'Subnet Mask:' with the value '255 - 0 - 0 - 0', 'Default Gateway:' with the value '30 - 20 - 10 - 1', 'DNS Server (Primary):' with empty fields, and 'DNS Server (Secondary):' with empty fields. A red legend at the bottom right states '* = Required fields'. At the bottom of the window are three buttons: 'Back', 'Next', and 'Cancel'.

35. If verification is successful, click Next.

If you used the default DHCP setting in *step 29* on *page 22* with the PC and printer on the same subnetwork, continue with *step 36* to install the Bonjour Print Services software.

If you used Static in *step 30* on *page 22*, the network printers have already been established and are tagged to the IP address you entered in *step 31* on *page 22*. Proceed to *step 39*.



Bonjour Print Services

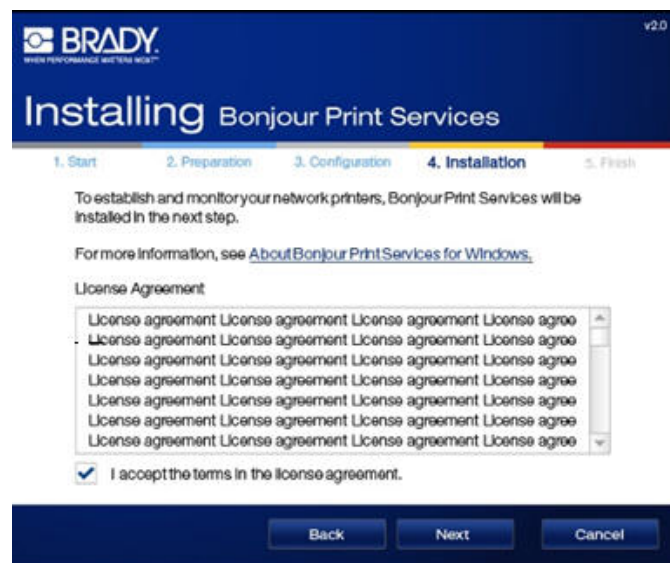
The Bonjour program is designed to establish and monitor network printers.

The Apple End User License Agreement is shown.

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

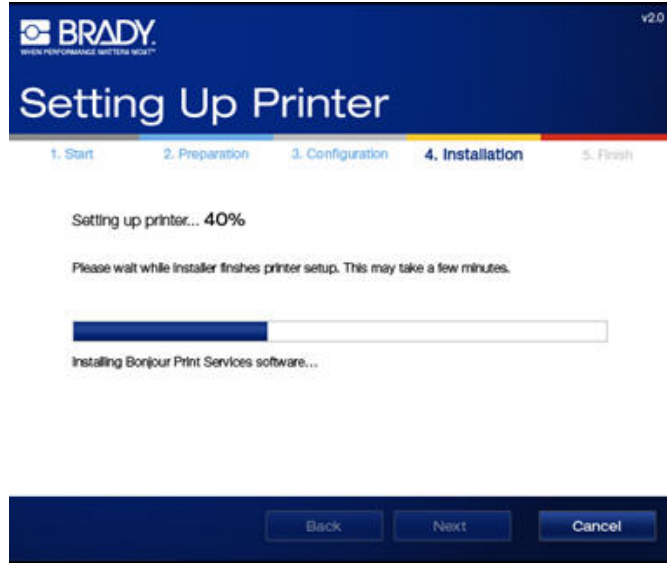
37. To get more information on Bonjour Services, click "About Bonjour Print Services for Windows" hyperlink on the screen. Then click Back to return to the License Agreement screen.

38. When ready, click Next to install the software as well as the network printer driver.



The printer driver is installed.

- 39.** When the printer setup is successfully completed, click Next.



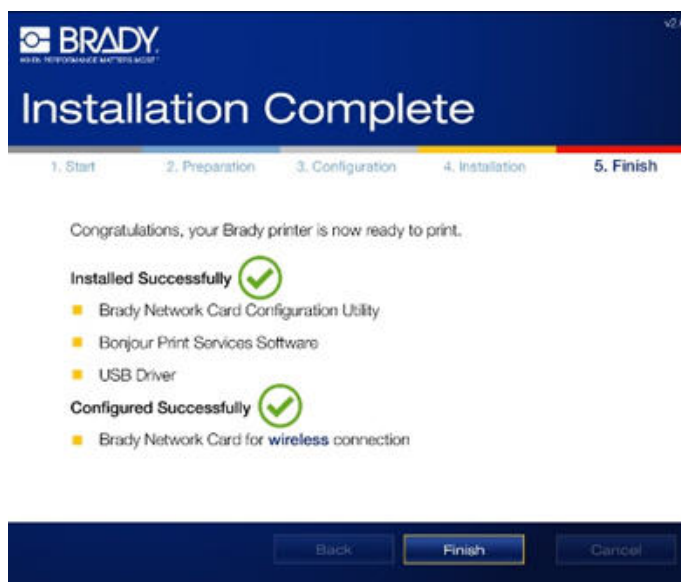
- 40.** Click Next.

The Brady network configuration utility is installed.



The Brady Printer Installation is completed.

41. 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 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. Click Install.



4. From the drop down list, select your language, then click Next.



5. Click the printer model you are installing, then click Next.

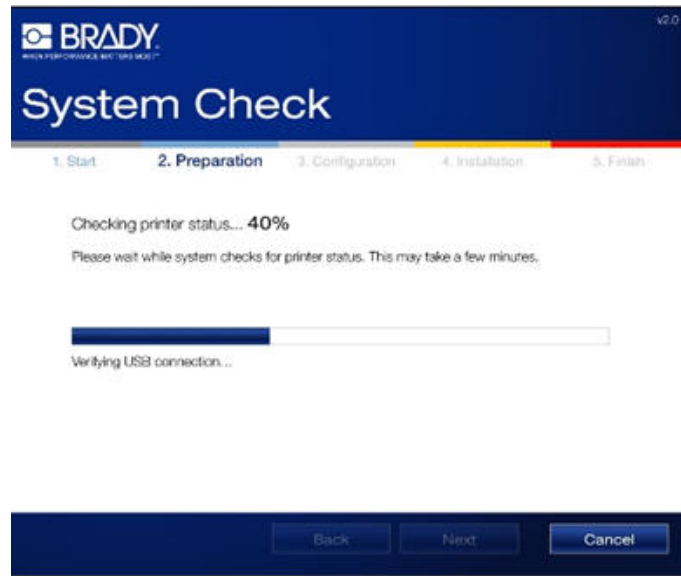


Check that your printer is powered on.

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



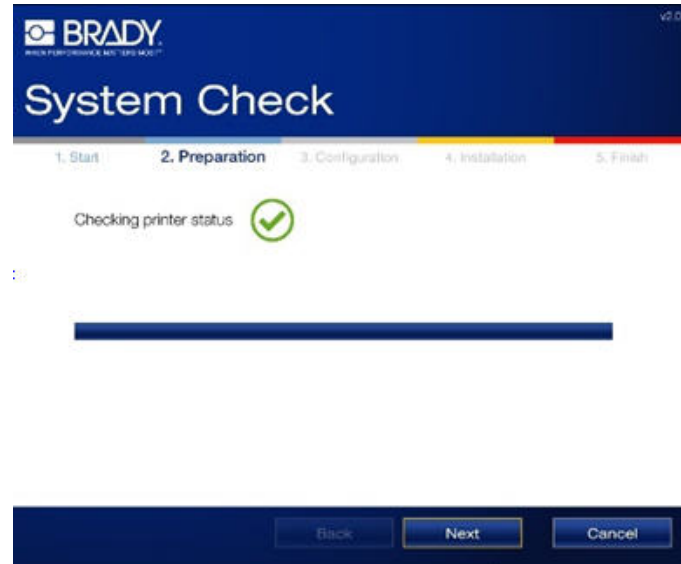
7. The printer status is checked. When finished, click Next.



When the status of the printer has been successfully completed, a checkmark displays on the System Check screen.

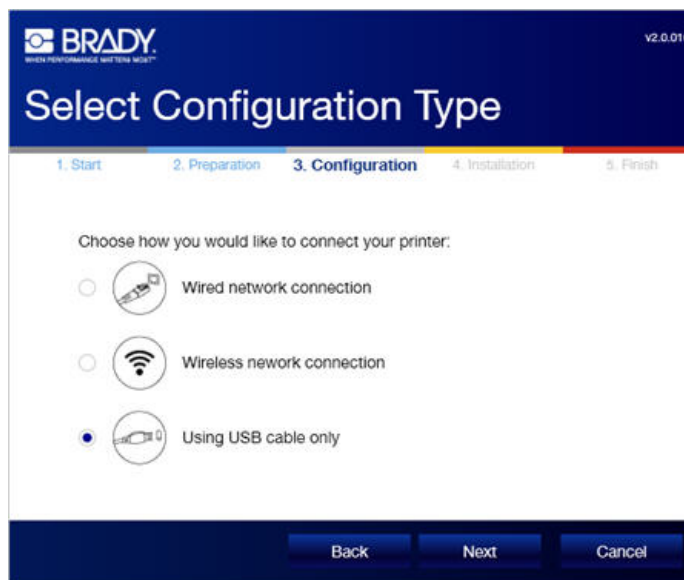
8. Click Next.

The connection is installed and verified



9. Click *Using USB cable only* radio button.
10. Click Next.

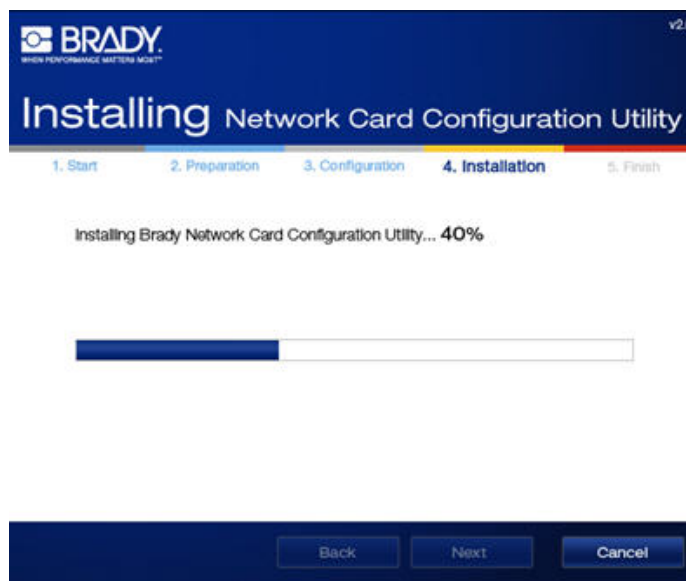
Note: An *Installing device driver software* notification message displays when the USB cable is connected. The printer driver installs automatically.



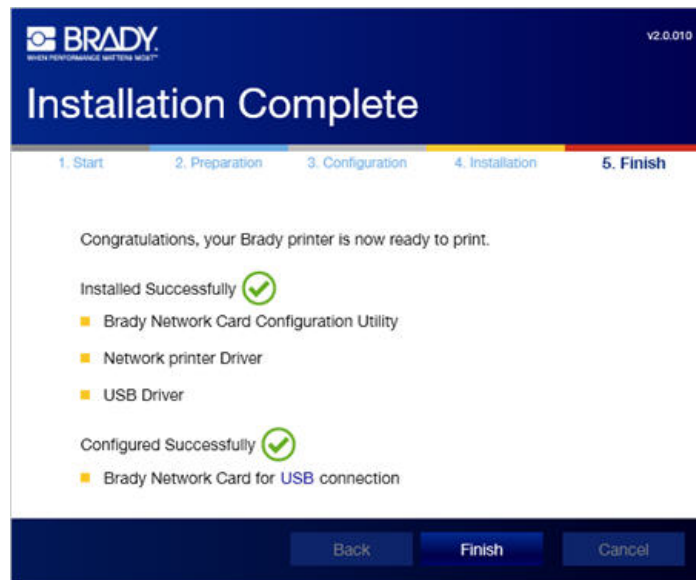
The installation continues.

11. When completed, click **Finish** to close the wizard.
12. Click Next.

The Brady network card configuration utility is installed.



13. When the Brady network configuration utility and USB Driver are successfully installed, click Finish.



Installation for WiFi Direct Printing

Use this installation process if you intend to send print jobs to the printer using WiFi Direct.

Using WiFi Direct Initially

Your printer arrives with WiFi Direct enabled. If you are sending jobs from a mobile device, all you need to do is connect to the printer's WiFi Direct network as follows.

1. Open network connections on your device.
2. Look for the default SSID for your printer in the list and connect to it. The format is **<printer model name><printer serial number>**. For example, the SSID for the BMP®61 printer is **BMP61serialnumber**.
3. You will be asked for the password. The default password is **1234567890**.

Re-enabling WiFi Direct

If you ever configure the printer for a personal or enterprise WiFi connection, WiFi Direct gets disabled.

To enable WiFi Direct again, follow these steps:

1. Use the network configuration utility to set up WiFi Direct. To open the utility see [Brady Network Configuration Utility on page 32](#). For WiFi Direct instructions see [WiFi Direct Settings on page 40](#).
2. On the mobile device, connect to the WiFi Direct network for your printer.
 - a. Open network connections on your device.
 - b. Look for the default SSID for your printer in the list and connect to it. The format is **<printer model name><printer serial number>**. For example, the SSID for the BMP61 printer is **BMP61serialnumber**.

Note: The SSID and password can be changed using the Brady network configuration utility. Be sure to use the current SSID and password.

- c. You will be asked for the password. The default password is **1234567890**.

Brady Network 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 v3.0**.

One dialog box is displayed, with multiple tabs.

General Settings

The General tab identifies the type of connections your Brady network-enabled printer supports (Network Card Model), the unique name you gave to the printer, and the previously defined connections.

To change the status of each supported configuration:

1. Click the Enabled/Disabled button to change the current state of the connection.

Note: If Wired Connection is Enabled, Wireless Connection automatically switches to Disabled, and vice versa. Both cannot be enabled together.

2. Click OK to accept changes and exit the dialog box.
3. If you need to upgrade the firmware, first download the latest version from the Brady website at www.bradyid.com. (Refer to [page 41](#) for information on downloading firmware.)
4. Once the latest firmware is downloaded, return to the configuration utility. On the General tab, click the **Firmware Upgrade** button, then proceed to [step 7](#) on [page 42](#).

The screenshot shows the 'Brady Network Card Configuration Utility v3.0' window with the 'General' tab selected. The window has a title bar with standard Windows controls. Inside, there are five tabs: 'General', 'Network', 'WiFi Settings', 'WiFi Direct', and 'Factory Reset'. The 'General' tab contains the following fields and controls:

- Network Card Model:** BRADY_WIFI
- Printer Name:** BMP41 (Copy 2)_BMP41123456789012345
- BNC Board Firmware Version:** 3.52, with a **Firmware Upgrade** button.
- Ethernet MAC Address:** Not Supported
- WiFi MAC Address:** 88:8C:19:c8:d9:0f
- Configuration Type** section:
 - Wired Connection:** Not Supported
 - Wireless Connection:** Enabled (indicated by a green button)
 - WiFi Direct Connection:** Disabled (indicated by a grey button)

At the bottom of the window are four buttons: **OK**, **Cancel**, **Apply**, and **Help**.

Network Settings

The Network tab displays the Address Type used by your printer.

DHCP is the recommended setting.

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

Brady Network Card Configuration Utility v3.0

General Network WiFi Settings WiFi Direct Factory Reset

Network Address Type

Assigned by:

☒ DHCP (IP address is obtained automatically)

☐ Static (IP address is assigned manually)

IP Address	10.32.74.35
Subnet Mask	255.255.255.0
Default Gateway	10.32.74.1
DNS Server (Primary)	10.240.100.180
DNS Server (Secondary)	10.244.100.180

OK Cancel Apply Help

WiFi Settings

The WiFi Settings tab displays:

- The currently connected network.
 - Security settings for the currently connected network.
1. In the list presented, click the desired wireless network.

Personal Network

If the network you selected from the list is a Personal network, you must enter the network password. The Network Name (SSID) field is non-editable.

2. Click the *Password* field and enter the password.
3. When ready, click **Connect**.

Brady Network Card Configuration Utility v3.0

General Network WiFi Settings WiFi Direct Factory Reset

Wireless Network Found:

Status	Network Name	Security	Signal
	BRC6555		
	GuestWireless		
	BRADYWIRELESS		
	HP-Print-ad-LaserJet 200 color		

Others Refresh

Network Properties

Network Name (SSID): HP-Print-ad-LaserJet 200 color

Security: WPA2 TKIP/AES

Password: *****

Connect

OK Cancel Apply Help

Enterprise Network

If the network you selected from the list is an Enterprise network, you must enter the Authentication Type, the Username and Password. The Network Name (SSID) and Security fields are non-editable.

Brady Network Card Configuration Utility v3.0

General Network **WiFi Settings** WiFi Direct Factory Reset

Wireless Network Found:

Status	Network Name	Security	Signal
	BRC6555		
	GuestWireless		
	BRADYWIRELESS		

Others Refresh

Network Properties:

Network Name (SSID): BRADYWIRELESS

Security: WPA/WPA2 TKIP+AES

Authentication Type: EAP-PEAP-MS-CHAP-V2

Username:

Password:

Certificate Authority (Optional): Browse

Connect

OK Cancel Apply Help

4. Click the down arrow in the Authentication Type field and select the correct Authentication type.
5. Click the *Username* field and enter the username.
6. Click the *Password* field and enter the password.
7. When ready, click **Connect**.

The screenshot shows the 'Brady Network Card Configuration Utility v3.0' window with the 'WiFi Settings' tab selected. The 'Wireless Network Found:' section displays a table of available networks:

Status	Network Name	Security	Signal
	BRC6555	WPA/WPA2	Strong
	GuestWireless	WPA/WPA2	Medium
	BRADYWIRELESS	WPA/WPA2	Strong

Below the table, the 'Network Properties' section for the selected 'BRADYWIRELESS' network is shown:

- Network Name (SSID): BRADYWIRELESS
- Security: WPA/WPA2 TKIP+AES
- Authentication Type: EAP-PEAP-MS-CHAP-V2 (selected from a dropdown)
- Username: ABCDEFG
- Password: [masked with asterisks]
- Certificate Authority (Optional): [empty field]

Buttons for 'Others', 'Refresh', 'Connect', 'OK', 'Cancel', 'Apply', and 'Help' are visible at the bottom of the utility window.

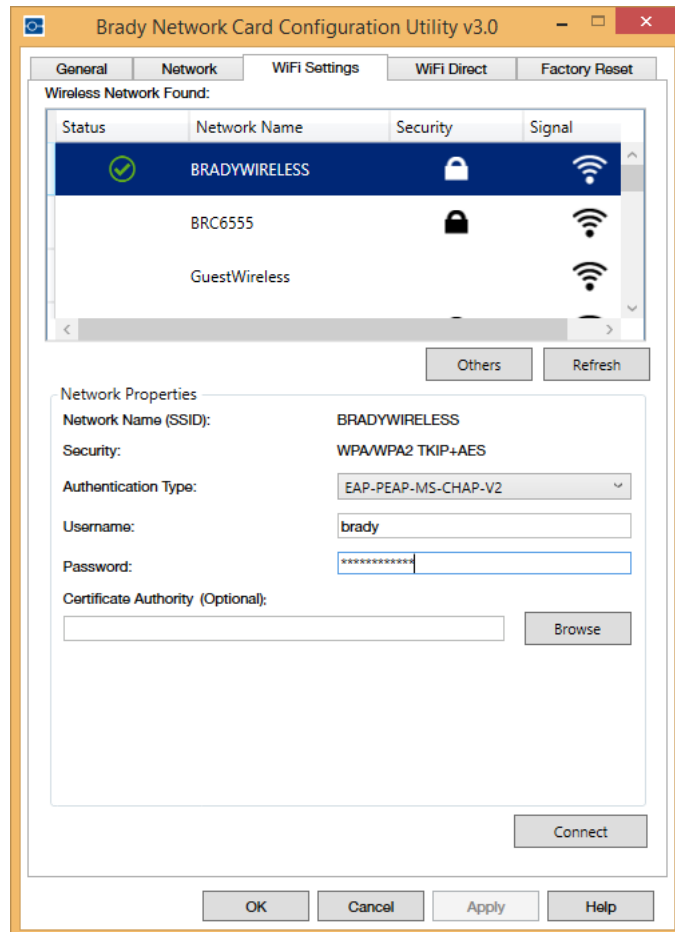
Disconnect a Network

Once you are connected, the active wireless network displays with a checkmark in the *Networks Found* list. To disconnect from an active network:

1. On the General tab, in the Configuration Type Wired Connection: field, click Disabled.

OR

Connect to a different network (see [page 34](#)). Connecting to a different network will automatically disconnect the previous network.



Defining Other Networks

To define a different network not in the list:

1. Click **Others**.
2. In the *Network Properties* section, click the radio button, *Personal* or *Enterprise*, that best describes this network.
3. To view the list of networks again, click the **Refresh** button.

Personal Network

1. If you click *Personal*, enter the Network Name (SSID)
2. In the *Security:* field, click the down arrow and select the *Security Type*.

Depending on the Security Type selected, you may or may not have to supply a password.

3. If a password is required, click the *Password:* field and enter the password.
4. When finished, click **Connect**.

The screenshot shows the 'Brady Network Card Configuration Utility v3.0' window with the 'WiFi Settings' tab selected. The 'General' tab is also visible. The 'Wireless Network Found:' section contains a table with columns: Status, Network Name, Security, and Signal. Below the table are 'Others' and 'Refresh' buttons. The 'Network Properties' section has two radio buttons: 'Personal' (selected) and 'Enterprise'. Below these are fields for 'Network Name (SSID):' (containing 'Cisco_WEP64'), 'Security:' (a dropdown menu showing 'WEP 64'), and 'Password:' (a masked field with asterisks). At the bottom right of the 'Network Properties' section is a 'Connect' button. At the very bottom of the window are 'OK', 'Cancel', 'Apply', and 'Help' buttons.

Enterprise Network

1. If you selected *Enterprise*, click the Network Name (SSID) field and enter the network name.
2. In the *Security* field, click the down arrow and select the security type. (If you do not know the security type, check with your network administrator.)
3. Enter the username and password, if applicable. Check with your network administrator to determine if a username has already been assigned to you.

Note: Depending on the Authentication Type selected, a Username, Password, and Certificates may, or may not, be required. Refer to the Authentication Table on [page 19](#) for more information.

4. Click **Connect** to accept the changes.

Brady Network Card Configuration Utility v3.0

General Network WiFi Settings WiFi Direct Factory Reset

Wireless Network Found:

Status	Network Name	Security	Signal
--------	--------------	----------	--------

Others Refresh

Network Properties

☐ Personal ☒ Enterprise

Network Name (SSID): BPS_Server

Security: WPA TKIP

Authentication Type: EAP-PEAP-MS-CHAP-V2

Username: ABCDEFGH

Password: *****

Certificate Authority (Optional): Browse

Connect

OK Cancel Apply Help

WiFi Direct Settings

The WiFi Direct Connection must be enabled in order to edit the settings on the WiFi Direct tab.

1. On the *General* tab, click WiFi Direct Connection to enable.
2. Click *WiFi Direct* tab.

In the *Device Name (SSID)*: field, the name displays as a network/SSID name when a WiFi-capable device scans for available wireless network. This name lets you identify your printer in the available network list to make the WiFi direct connection.

If a Printer Name was defined in the installer, that name is used. If not (such as when an out-of-box card is used), the default name is *<Printer model><printer serial number>*. To change the name:

3. Click the *Device Name (SSID)*: field and enter a new name.

A password, that other devices will use to attach to your printer, is required for WiFi direct connection. The default password is **1234567890**. To change the default:

4. Click the *Password*: field and enter a password. The password can be from 8 to 63 characters long.
5. Click **Apply** to save changes

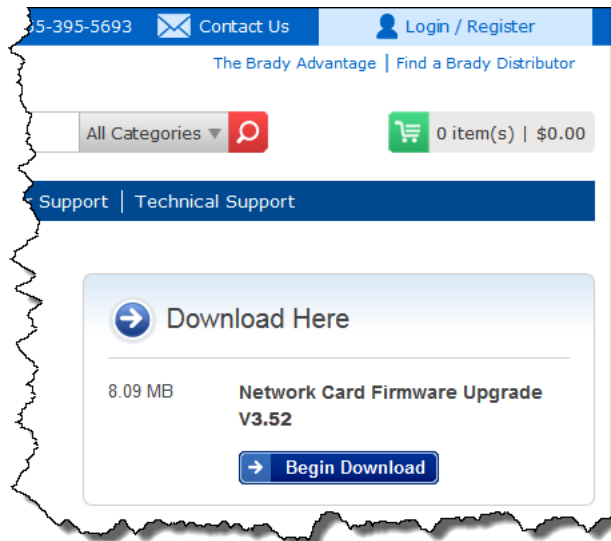
The screenshot shows the 'Brady Network Card Configuration Utility v3.0' window with the 'WiFi Direct' tab selected. The 'WiFi Direct Settings' section contains two main fields: 'Device Name (SSID):' and 'Password:'. The 'Device Name (SSID):' field is populated with 'BMP41123456789012345'. Below this field, a note states: 'Name will be displayed in available wireless network list when searching for your printer.' The 'Password:' field is populated with '1234567890'. Below this field, a note states: 'Password for other devices to establish a wireless connection to your printer. Password must be between 8 and 63 characters.' At the bottom of the window, there are four buttons: 'OK', 'Cancel', 'Apply', and 'Help'.

Firmware Upgrade

When new versions of firmware become available, you can upgrade the printer's networking capability through the Firmware Upgrade button on the General tab of the configuration utility.

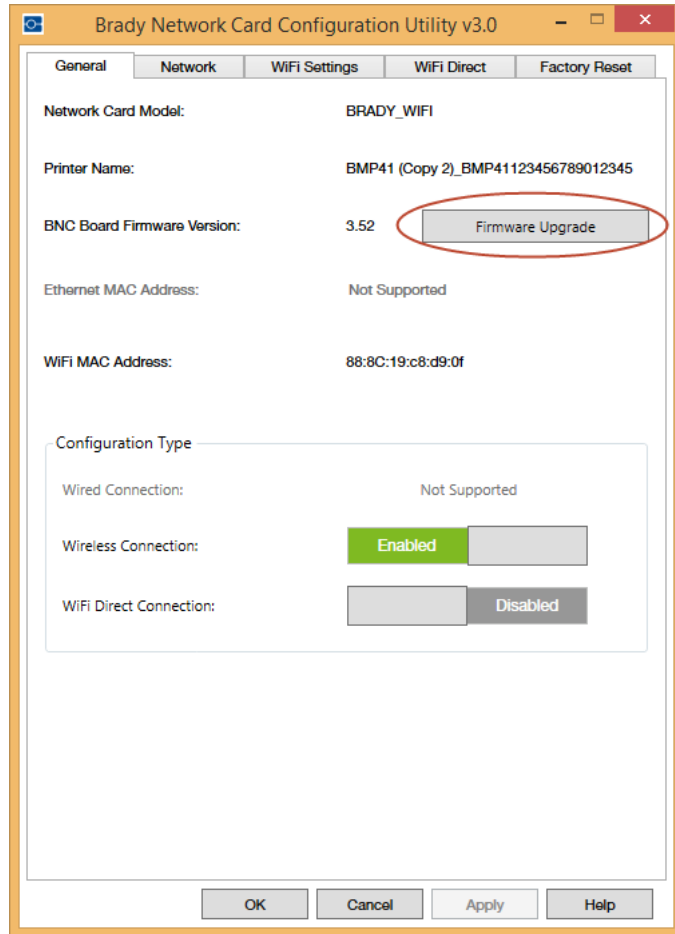
To upgrade firmware:

1. Access the Brady website at www.bradyid.com.
2. Point to **Technical Support** and then click **Firmware**.
3. Find and then click the Network Card Firmware Upgrade.
4. Click **Begin Download**.



5. Save the file.

6. On the General tab of the configuration utility, click **Firmware Upgrade**.



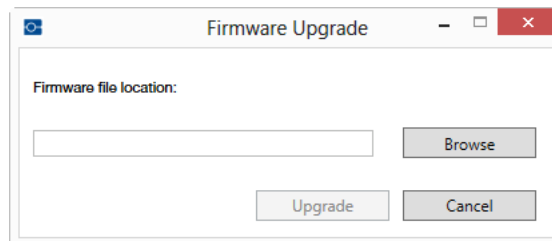
7. In the Firmware Upgrade window, click **Browse**.

8. Find the directory in which you saved the downloaded file, then click Open.

9. In the Firmware Upgrade window, click **Upgrade**.

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):

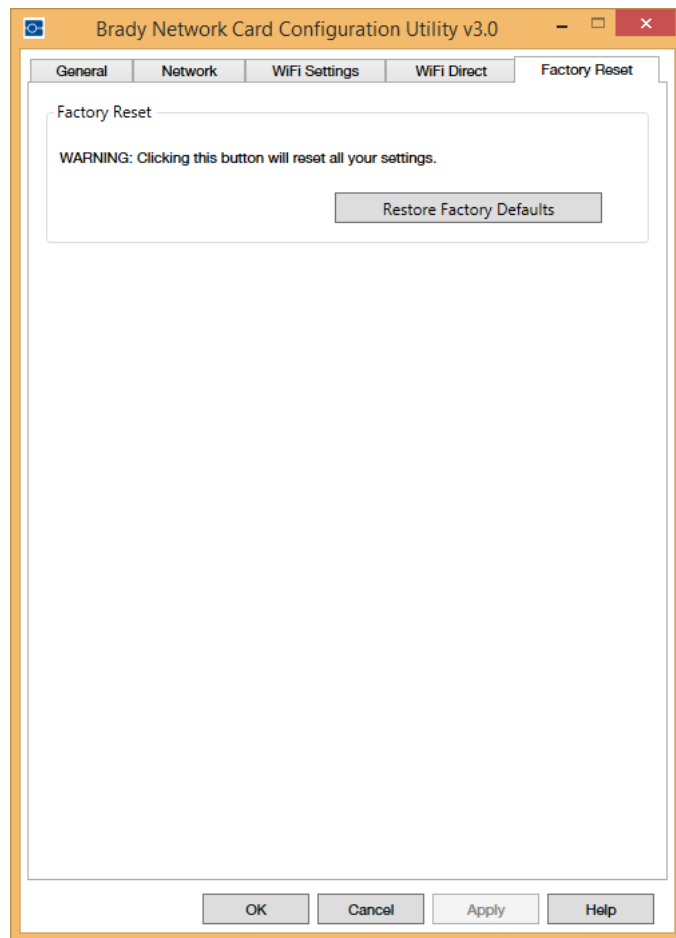
1. In the Brady network configuration utility, click the Factory Reset tab.

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

To reset all previously defined settings:

Click **Restore Factory Defaults**.

The previous settings are removed. You can now reconfigure network communication.



Troubleshooting

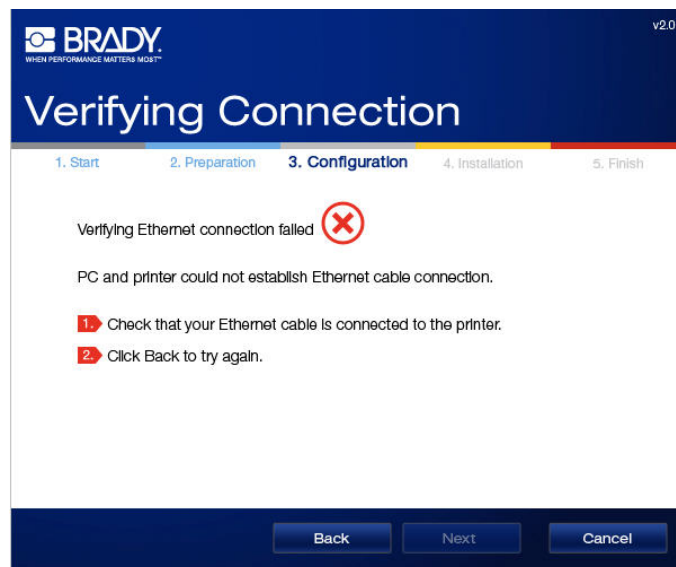
Ethernet Connection Failed

The Ethernet connection or printer status can fail for several reasons:

1. The USB connection has failed. (See [page 51](#).)
2. The Ethernet cable is not connected to the printer.
3. The PC and printer are not on the same network.
4. The printer is unable to get an IP address from the DHCP server.

Ethernet cable not connected

1. Ensure the Ethernet cable is connected to the printer.
2. Click Back.



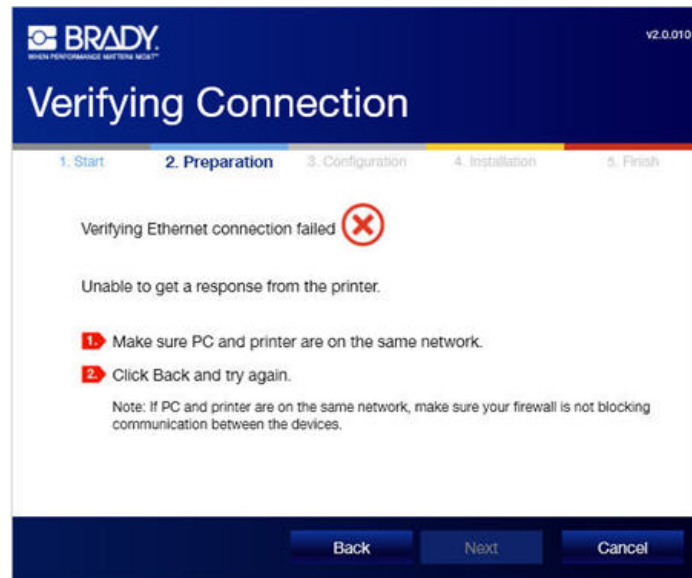
PC and printer not on same network

1. Click Back.
2. Verify that your printer and PC are connected to the same network. (Refer to the connection diagram on [page 8](#).)

OR

Click Network Address Type: Static and enter the IP address details.

Note: If the same network has been selected and the connection still fails, a firewall could be blocking the connection. In this case, contact your network administrator.



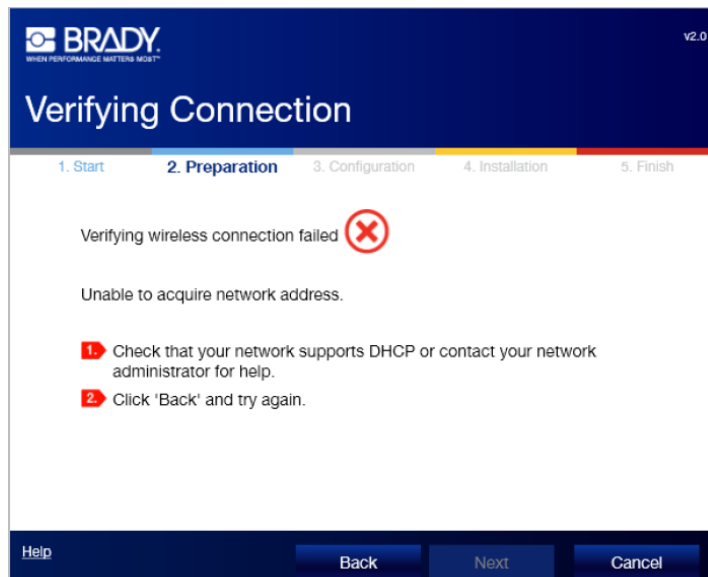
Printer is unable to get an IP address from DHCP server

1. Click Back and try connecting again.

OR

Select *Network Address Type: Static* and enter the IP address details.

Note: Connection can also fail due to the DHCP network configuration. Contact your network administrator.



WiFi Connection Failed

WiFi connections or printer status can fail for several reasons:

1. The USB connection has failed. (See [page 51](#).)
2. A wrong password or security code was entered.
3. The PC and printer are not on the same network.
4. The printer is unable to get an IP address from the DHCP server.
5. The network name (SSID) entered in “Other” network is invalid.
6. The signal was lost during installation.

Unable to establish connection

The connection may fail for the following reasons:

- On a Personal network, the password entered may not be correct. (See [page 48](#).)
- If defining “Other” networks (see [step 20](#) on [page 19](#)), the SSID entered can either not be found or is invalid, OR the other manual entries in one or all required fields are incorrect
- The signal is lost while connecting or is not detected when establishing the connection. This may be due to a weak signal; the printer is not in signal range; or the router is switched off



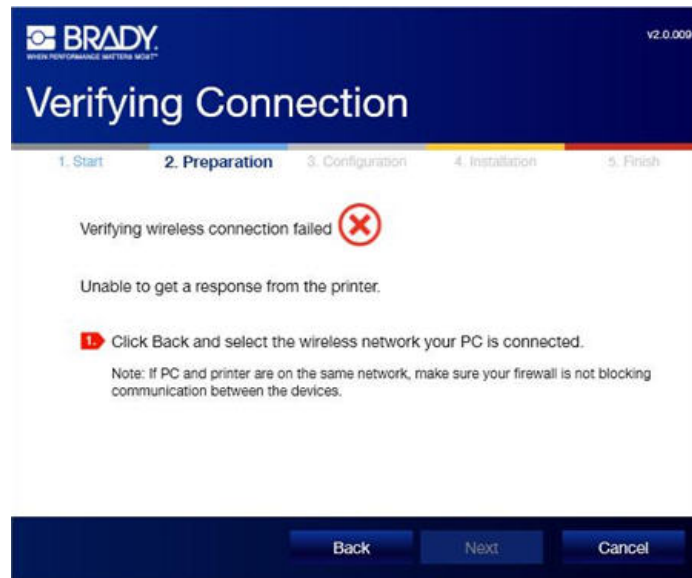
PC and printer not on the same network

1. Click Back. Verify that you have selected the wireless network to which your PC is connected. (Refer to the connection diagram on [page 8](#).)

OR

Click Network Address Type: Static and enter the IP address details.

Note: If the same network has been selected and connection still fails, a firewall is blocking the connection. In this case, contact your network administrator.



2. When ready, click Next.

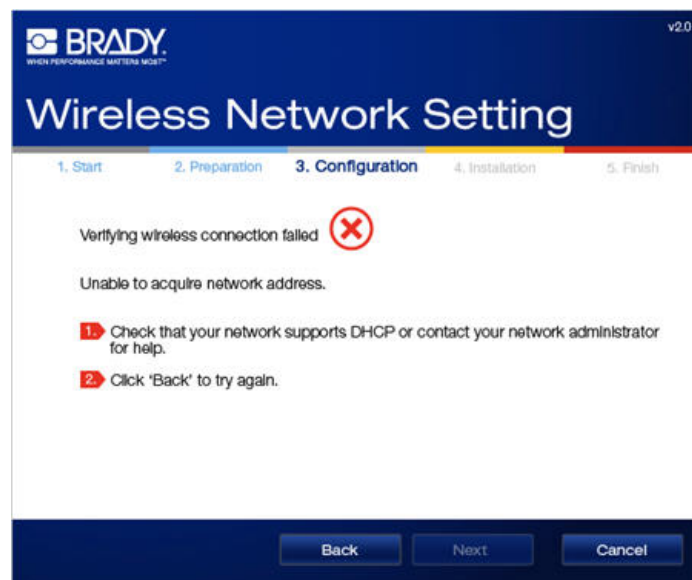
Printer is unable to get an IP address from DHCP server

1. Click Back and try connecting again.

OR

Select Network Address Type: Static and enter the IP address details.

Note: Connection can also fail due to the DHCP network configuration. Contact your network administrator.



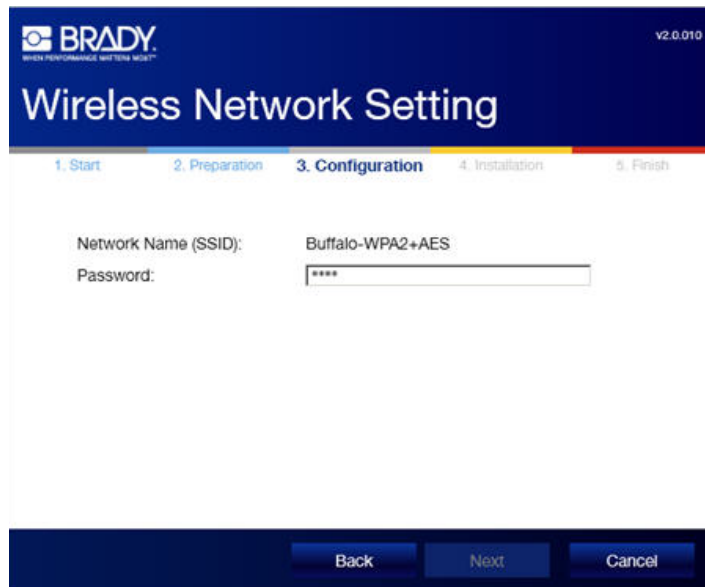
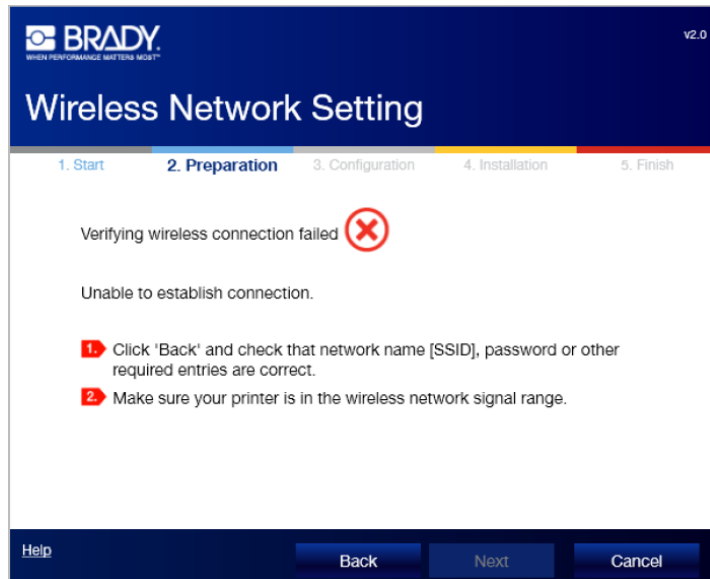
Wrong password or security mode

Personal Network

If connection to a Personal network fails, the password is most likely incorrect. To correct the password:

1. Click Back.

2. Re-enter the correct password.



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.

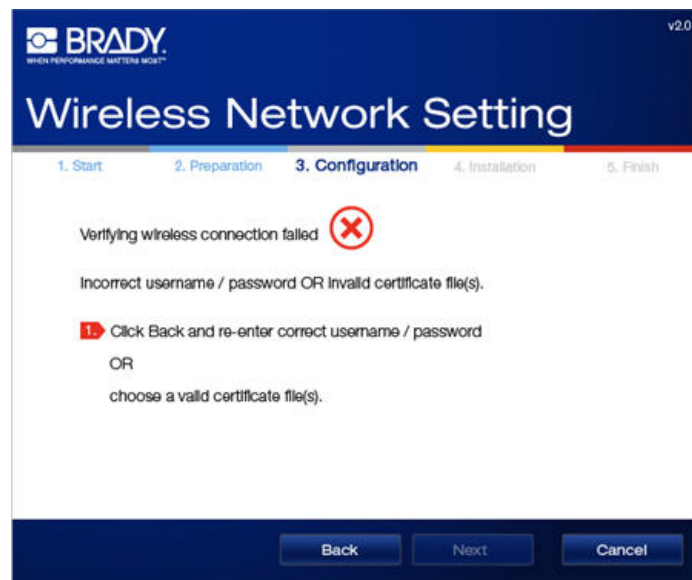


The screenshot shows the 'Wireless Network Setting' screen for a Brady printer. The title bar includes the Brady logo and 'v2.0.010'. The screen has a progress bar at the top with five steps: 1. Start, 2. Preparation, 3. Configuration (highlighted), 4. Installation, and 5. Finish. Below the progress bar, there are radio buttons for 'Other Network', 'Personal Network' (selected), and 'Enterprise Network'. Under 'Personal Network', there are input fields for 'Network Name (SSID):' (containing 'WPA'), 'Security:' (a dropdown menu showing 'WPA TKIP'), and 'Password:' (a masked field with four dots).

Enterprise Network

If connection to an Enterprise network fails, the Username, Password, or Certificates may be incorrect. To correct the password and/or certificates:

1. Click Back.



The screenshot shows the 'Wireless Network Setting' screen for a Brady printer, displaying an error message. The title bar includes the Brady logo and 'v2.0'. The screen has a progress bar at the top with five steps: 1. Start, 2. Preparation, 3. Configuration (highlighted), 4. Installation, and 5. Finish. Below the progress bar, there is a red 'X' icon and the text 'Verifying wireless connection failed'. Below this, it says 'Incorrect username / password OR Invalid certificate file(s)'. Then, it says 'Click Back and re-enter correct username / password' with a red arrow icon, followed by 'OR' and 'choose a valid certificate file(s)'. At the bottom, there are three buttons: 'Back', 'Next', and 'Cancel'.

2. Re-enter the correct username or password.

OR, depending on the Authentication Type selected, if certificates are required:

3. Re-enter the certificate authorities.
4. Click Next to continue with the installation.

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

5. Click the down arrow in the Security field and select the correct Security.
6. Click Next to continue with the installation.

BRADY
WHEN PERFORMANCE MATTERS MOST™

v2.0

Wireless Network Setting

1. Start 2. Preparation 3. Configuration 4. Installation 5. Finish

Network Name (SSID): BPS_Server
Security: WPA TKIP
Authentication Type: EAP-PEAP-MS-CHAP-V2
Username: ABCDEFG
Password: *****
Certificate Authority: (Optional)

Help

BRADY
WHEN PERFORMANCE MATTERS MOST™

v2.0

Wireless Network Setting

1. Start 2. Preparation 3. Configuration 4. Installation 5. Finish

☐ Personal Network ☒ Enterprise Network
Network Name (SSID): BPS_Server
Security: WPA TKIP
Authentication Type: EAP-PEAP-MS-CHAP-V2
Username: ABCDEFG
Password: *****
Certificate Authority: (Optional)

Help

USB Connection Failed

The USB connection could fail for the following reasons:

- The printer is powered OFF.
- The USB cable is not connected.
- The USB driver install was not completed. (For Windows XP, this is established through the *Found New Hardware* wizard)

Printer Status Failed

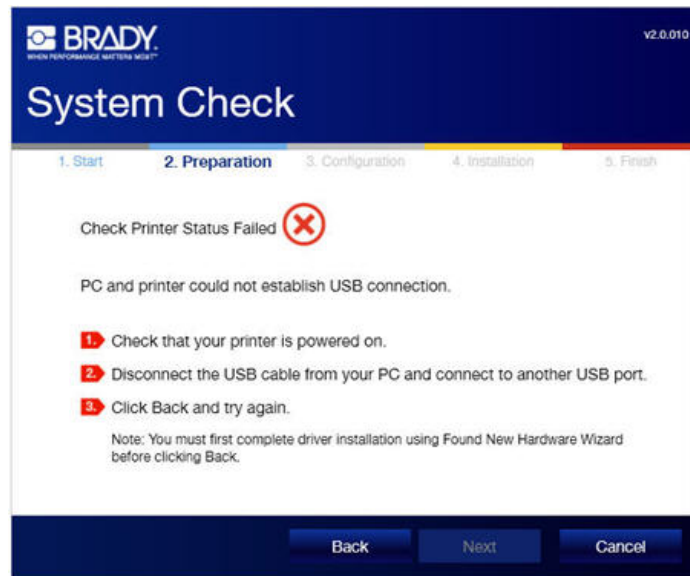
If the printer status indicates Failed:

1. Ensure the printer is powered ON.
2. Ensure the cable is securely and correctly plugged into the port.

OR

Disconnect the USB cable from the PC and try another port.

3. Click Back and try again. (Repeat [step 7](#) on [page 28](#).)



Printer installation interrupted

If the USB cable connection is loose or becomes unplugged during installation:

1. Check the USB cable connection at the port on the PC AND the printer. Tighten or reconnect where necessary.
2. Click Back.



Technical Support Numbers

For repair or technical assistance, find your regional Brady Tech Support office in the following list.

- United States: 1-800-643-8766 or via the web at www.bradyid.com/techsupport
- Australia: 1-800 644 834 or via the web at www.bradyid.com.au/en-au/supportlanding
- Canada: 1-888-262-7576 or via the web at www.bradycanada.ca
- Mexico & Latin America: 01-800-212-8181 or via the web at www.bradylatinamerica.com
- Europe: +44 333 333 1111 or via the web at www.bradyeurope.com/services



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