



**Intermec**



Instructions

**EasyLAN Ethernet  
Software**  
for the EasyCoder®  
PD41 and PD42 Printers

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# Introduction

These instructions describe the various ways you can access and set the network parameters on a PD41 printer equipped with an EasyLAN Ethernet network card. The instructions apply equally to a PD42 printer, but are less relevant since network parameters can be changed directly from the printer display.

Once you have the printer home page up and running, please refer to the *EasyLAN User's Guide* (P/N 1-960590-xx) for information on how to navigate the web interface and modify advanced network settings.

## Printer Firmware Requirements

Before you begin, confirm that the printer is running either Intermec Fingerprint v10.x.x or IPL v10.x.x firmware. If you have a PD41 printer, the easiest way to check the firmware version is to print a test label (for help, see the *EasyCoder PD41 Printer User's Guide* (P/N 1-960652-xx)). If you have a PD42 printer, information about the current firmware version is shown in the display window when the printer is in idle mode.

# Setting Network Parameters from the Printer Home Page

You can change all network parameters by using your web browser to access the printer home page. To access the home page, you need the IP address of the printer. As a default setting, the printer is set to automatically receive an IP address from the network, but communication will only work if the network is also set to assign IP addresses automatically through DHCP or BOOTP.

There are four different methods for setting the IP address of the printer. DHCP, BOOTP, and DHCP+BOOTP allows the server to assign the printer a temporary IP address, and also sets the netmask, default router and name server automatically. If the server neither supports DHCP nor BOOTP, or if you want to set a permanent IP address manually, you can use the MANUAL option. In this case, you also have to set the netmask, default router, and name server manually.

If you have problems accessing the printer home page, use one of the other methods described in these instructions to set the printer network parameters.

## To access the printer home page

- 1 Use an Ethernet cable to connect the printer to your network.
- 2 Print test labels from startup (for help, see the *EasyCoder PD41 Printer User's Guide* (P/N 1-960652-xx)).

The IP address of the printer is printed on the “Network settings” test label.

- 3 Enter the IP address in the address field of your web browser. The printer web page opens.

# Setting Network Parameters with PrintSet 4

PrintSet 4 is a PC-based software application that lets you configure your Intermecc printer from your computer. The program is available on the PrinterCompanion CD, and can also be downloaded from the Intermecc web site.

PrintSet 4 requires that your PC is running Microsoft Windows 2000 or XP.

## To set network parameters with PrintSet 4

- 1 Use an RS-232 serial cable to connect the printer to your PC.
- 2 Install and run PrintSet 4.
- 3 Select **File > Add printer**. The Add Printer Wizard opens.
- 4 Click **Next**.
- 5 Select **Serial Connection**. Click **Next**.
- 6 Select your COM port, and make sure the **Automatically detect communication parameters** box is checked. Click **Next**.

PrintSet starts the Autoconnect procedure, and the progress is displayed on the Status bar.

- 7 When the Add Printer Wizard has found your printer, click **Next**.
- 8 Click **Finish**. The printer has now been added to the list under “My Printers”.
- 9 Select the printer, and then double-click the **Network** option located in the right pane.

You can now set the network parameters according to your preferences.

# Setting Network Parameters With Fingerprint and IPL Commands

These instructions require that you start by establishing a serial connection between your printer and your PC.

## To establish a serial connection

- 1 Use an RS-232 serial cable to connect the printer to your PC.
- 2 (Optional) Put the printer in Dump mode. Dump mode is used to verify that the connection is working once it has been established. Dump mode can be entered through Testmode and Extended Testmode, for help see the *EasyCoder PD41 Printer User's Guide* (1-960652-xx) or the *EasyCoder PD42 Printer User's Guide* (934-009-xxx).
- 3 Start a terminal program, for example Microsoft Hyperterminal.
- 4 Create a new connection. The serial ports on a PC are referred to as COM1, COM2, etc. and the default settings for the printer serial connection parameters are:

Parameter	Setting
Baud rate	9600
Data bits	8
Parity	None
Stop bits	1
Flow control	None



**Note:** Verify your printer serial connection settings by printing a test label. The settings in your terminal program must be the same as that of the printer.

- 5 Input text in the terminal window and confirm that the same characters are printed on the labels.
- 6 Exit Dump mode.



## Setting Network Parameters with Fingerprint Commands

If your printer is running Fingerprint firmware, you can modify all network parameters with the Fingerprint `Setup` command.

### To modify network parameters with Fingerprint commands

- 1 Establish a serial connection between your computer and printer, as described on [page 8](#).

- 2 Switch user to administrator with the default login (username: admin, password: pass).

```
RUN su -p pass admin
```

- 3 Set the IP selection method to manual:

```
SETUP "NETWORK,IP SELECTION,MANUAL"
```

- 4 Set the IP address (values are examples only):

```
SETUP "NETWORK,IP ADDRESS,192.168.235.860"
```

- 5 Set the netmask, default router and name server (values are examples only):

```
SETUP "NETWORK,NETMASK,255.255.255.0"
```

```
SETUP "NETWORK,DEFAULT ROUTER,192.168.236.1"
```

```
SETUP "NETWORK,NAME SERVER,255.255.78.120"
```

Once you have set the parameters above you can use your web browser to access the printer home page and make the rest of your changes there.

## Setting Network Parameters with IPL commands

If your printer is running IPL firmware, you can modify various setup parameters with the IPL `<SI>` command.

### To modify network parameters with IPL commands

- 1 Establish a serial connection between your computer and printer, as described on [page 8](#).

- 2 To set IP address and use default values for netmask and router, use this command (values are examples only):

```
<STX><SI>n192.168.235.860<ETX>
```

- 3 To set the IP address, netmask, and default router values (values are examples only):

```
<STX><SI>n192.168.235.86, 255.255.255.0,  
192.168.236.1<ETX>
```

Once you have set the parameters above you can use your web browser to access the printer home page and make the rest of your changes there.

## Setting IP Address Using ARP'n'PING

Use the ARP'n'PING method to set the printer IP address if your network does not have a DHCP or BOOTP server. ARP'n'PING requires:

- An available IP address on the network, which will be assigned to the printer. The IP address can be changed later from the printer's home page once communication is established.
- The printer's MAC address. You can get the MAC address from the MAC address label on the back of the printer.

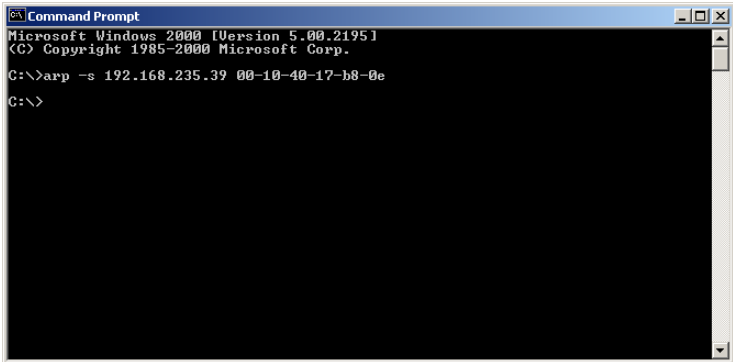
If the printer is started with DHCP and/or BOOTP as IP selection method, it will attempt to find an IP address five times before a failure is declared. This procedure takes about 2 minutes during which you cannot use the ARP'n'PING method.

The following example shows how ARP'n'PING is performed in Windows 2000, however the procedure is similar in other Windows versions as well as in UNIX. As a general rule, in Windows the groups of digits in the MAC address are separated by hyphens (-), and in UNIX they are separated by colons (:).

### To use ARP'n'PING (Windows 2000)

- 1 Select **Start > Accessories > Command Prompt**. The Command Prompt launches.
- 2 In the Command Prompt, type:

```
arp -s desired IP address printer MAC-address
```

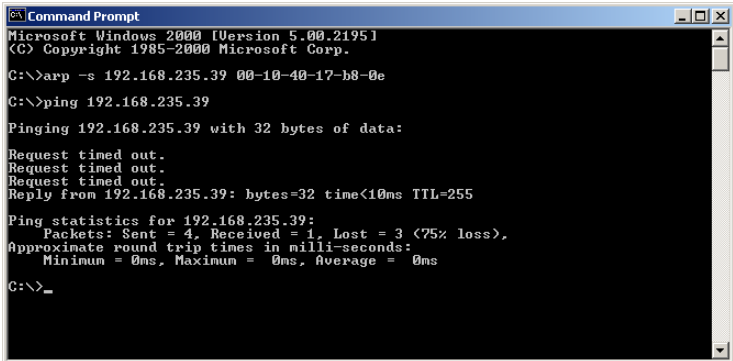


```
Command Prompt
Microsoft Windows [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

C:\>arp -s 192.168.235.39 00-10-40-17-b8-0e
C:\>
```

3 Next, use Ping to make the printer set the IP address:

`ping IP address`



```
Command Prompt
Microsoft Windows [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

C:\>arp -s 192.168.235.39 00-10-40-17-b8-0e
C:\>ping 192.168.235.39

Pinging 192.168.235.39 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Reply from 192.168.235.39: bytes=32 time<10ms TTL=255

Ping statistics for 192.168.235.39:
    Packets: Sent = 4, Received = 1, Lost = 3 (75% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>_
```

4 Exit the Command Prompt.



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