



Intermec



User's Guide

**EasyLAN 100e
Ethernet Adapter**

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There are U.S. and foreign patents as well as U.S. and foreign patents pending.

Document Change Record

This page records changes to this document. The document was originally released as Revision 001.

Version Number	Date	Description of Change
002	9/2007	Revised guide to include information on after service locations for South Korea.

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Before You Begin

This section provides you with safety information, technical support information, sources for additional product information, and explains how to identify and understand warnings, cautions, and notes included in this document.

Safety Information

Your safety is extremely important. Read and follow all warnings and cautions in this document before handling and operating Intermec equipment.



A warning alerts you of an operating procedure, practice, condition, or statement that must be strictly observed to avoid death or serious injury to the persons working on the equipment.



A caution alerts you to an operating procedure, practice, condition, or statement that must be strictly observed to prevent equipment damage or destruction, or corruption or loss of data.



Note: Notes either provide extra information about a topic or contain special instructions for handling a particular condition or set of circumstances.

Global Services and Support

Warranty Information

To understand the warranty for your Intermec product, visit the Intermec web site at www.intermec.com and click **Service & Support > Warranty**.

Disclaimer of warranties: The sample code included in this document is presented for reference only. The code does not necessarily represent complete, tested programs. The code is provided “as is with all faults.” All warranties are expressly disclaimed, including the implied warranties of merchantability and fitness for a particular purpose.

Web Support

Visit the Intermec web site at www.intermec.com to download our current manuals (in PDF). To order printed versions of the Intermec manuals, contact your local Intermec representative or distributor.

The Intermec technical knowledge base (Knowledge Central) at intermec.custhelp.com provides technical information and links to request technical support for your Intermec product.

Telephone Support

These services are available from Intermec.

Services	Description	In the USA and Canada call 1-800-755-5505 and choose this option
Order Intermec products	<ul style="list-style-type: none">Place an order.Ask about an existing order.	1 and then choose 2
Order Intermec media	Order printer labels and ribbons.	1 and then choose 1
Order spare parts	Order spare parts.	1 or 2 and then choose 4
Technical Support	Talk to technical support about your Intermec product.	2 and then choose 2
Service	<ul style="list-style-type: none">Get a return authorization number for authorized service center repair.Request an on-site repair technician.	2 and then choose 1
Service contracts	<ul style="list-style-type: none">Ask about an existing contract.Renew a contract.Inquire about repair billing or other service invoicing questions.	1 or 2 and then choose 3

Outside the U.S.A. and Canada, contact your local Intermec representative. For technical support in South Korea, see the next section. To search for your local representative, from the Intermec web site, click **Contact**.

Service Location Support

For technical support in South Korea, use the after service locations listed below:

AWOO Systems

102-1304 SK Ventium
522 Dangjung-dong
Gunpo-si, Gyeonggi-do Korea, South 435-776
Contact: Mr. Sinbum Kang
Telephone: +82-31-436-1191
Email: sbkang@awoo.co.kr

Sammi Information Systems Co Ltd

7-9FL, Seo Jo Building
103-15, Galwor-Dong
Seoul, Yong San-ku Korea, South 140-807
Contact: Kyung-Hee Koo
Telephone: +82-2-790-5508
Email: jlovekoo@sammicomputer.co.kr

Who Should Read This Manual

The *EasyLAN 100 Ethernet Adapter User's Guide* is for the person responsible for installing, configuring, and maintaining the EasyLAN 100e Ethernet Adapter (referred to throughout as the "Adapter").

This *EasyLAN 100 Ethernet Adapter User's Guide* provides information about the features of the Adapter, including how to install, configure, operate, maintain, and troubleshoot your Adapter.



Note: Before you work with the Adapter, you should be familiar with your network and general networking terms, such as IP address.

The Intermec web site at www.intermec.com contains our documents (as PDF files) available for download.

Before You Begin

To download documents

- 1** Visit the Intermec web site at www.intermec.com.
- 2** Click **Service & Support > Manuals**.
- 3** In the **Select a Product** field, choose the product whose documentation you want to download.

To order printed versions of the Intermec manuals, contact your local Intermec representative or distributor.

Patent Information

This product is covered by one or more patents.

There may be other U.S. and foreign patents pending.



1 Installing the Adapter

This chapter provides an overview of the EasyLAN™ 100e Ethernet Adapter and explains in detail how to install the Adapter in your network. The chapter covers these topics:

- Introducing the EasyLAN 100e Ethernet Adapter
- Supported Operating Systems and Network Protocols
- Installing the Adapter
- Setting Up to Print
- Printer Installation

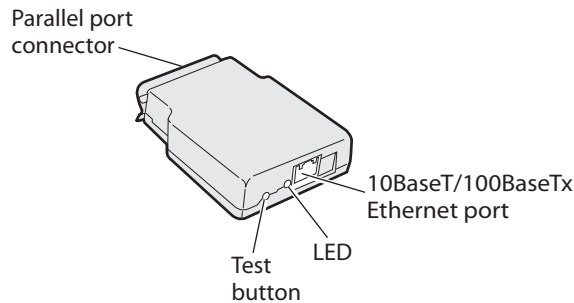
Introducing the EasyLAN 100e Ethernet Adapter

The external EasyLAN 100e Ethernet adapter (P/N 225-746-001) acts as a print server, letting you share printers across your Ethernet network.

You can connect the Adapter to these printers:

- EasyCoder C4
- EasyCoder PC4
- EasyCoder PC41
- PF8d
- PF8t

The Adapter uses a 10BaseT/100BaseTx connector. This connector supports the 10BaseT network speed of 10 Mbps (Standard Ethernet), while the 100Base Tx supports a network speed of 100 Mbps (Fast Ethernet).



EasyLAN 100e Ethernet Adapter

Connector, LED, and Button Descriptions

Part	Description
10BaseT/100BaseTx connector	Connects the Adapter to a standard Ethernet (10 Mbps) or Fast Ethernet (100 Mbps) network via an Ethernet cable.
Parallel port connector	Provides the Adapter with a single high-speed parallel port that can connect directly, without additional cabling, to an Intermec printer's parallel port.

Connector, LED, and Button Descriptions (continued)

Part	Description
LED	Provides information on power-up diagnostics and network activity.
Test button	Prints a test label that shows some of the Adapter's settings. Printers that do not use the Intermecc Printer Language (IPL), Direct Protocol (DP), or ESim cannot print a test label. Reset the Adapter's to the factory default settings. For more help, see "Printing a Test Label" on page 5.

Supported Operating Systems and Network Protocols

- Windows[®] 95, 98, ME, NT 4, 2000, XP, and Vista
- TCP/IP
 - LPD/LPR
 - Raw TCP/IP (port 9100)
 - NetBIOS[®] over IP (with SMB)
 - Multiple configurable TCP port numbers
- Telnet
- WINS
- DHCP
- IPX/SPX
 - NetWare[™] RPrinter Bindery mode
 - NetWare PServer Bindery mode
 - NetWare NPrinter NDS mode with NDPS support
 - NetWare PServer NDS mode
 - Ethernet II, 802.3, 802.2, 802.2 SNAP Frame types
 - Compatible with PCONSOLE, NWADMIN, PRINTCON, and other Novell utilities
- NetBEUI
- UNIX[®]

Installing the Adapter

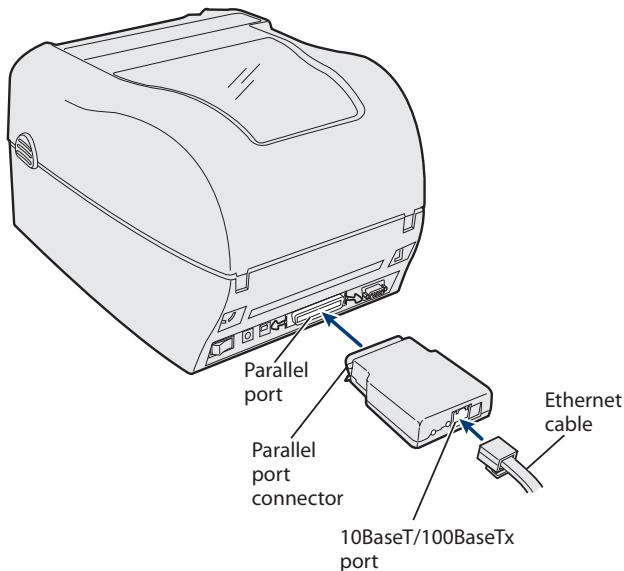
Before you install the Adapter, make sure that you have the appropriate Ethernet cable. Make sure that you have loaded media and ribbon into the printer and connected the power cord. For help, see the printer's quick start guide for your printer.

Connecting the Adapter to Your Network

This section explains how to connect the Adapter first to your printer, and then to your network.

To connect the Adapter to your printer

- 1 Take note of the MAC address printed on the Adapter's underside. You will need this address to configure the printer.
- 2 Turn off the printer.
- 3 Plug the Adapter parallel port connector into the parallel port on the printer.
- 4 Connect one end of an Ethernet cable to the 10BaseT/100BaseTx connector on the Adapter.
- 5 Connect the other end of the cable to an active Ethernet (data) port for your network.



To connect to your network

- 1 Turn on the printer.

When you turn on the printer, the Adapter runs through a set of power-up diagnostics for a few seconds.

- 2 If the Adapter is operating properly, the LED flashes momentarily and then turns off. After this, the LED flashes whenever there is network activity.
- 3 The Adapter obtains its TCP/IP settings automatically, including an IP address, if you have a DHCP (Dynamic Host Configuration Protocol) server on your network.

You are now ready to start using your printer. If you want to print a test label or set a static IP address for the Adapter, see the next two sections.

Printing a Test Label

Test that the Adapter works properly by printing a test label. The test label shows the Adapter's current status, network settings, and network statistics.

To print a test label

- 1 Wait until the power-up cycle finishes and the LED turns off.
- 2 Insert a small, straightened paper clip into the recessed **Test/Factory** button.
- 3 Gently press the button once and then remove the paper clip.

If you cannot print a test label, see Chapter 3, "Troubleshooting and Managing the Adapter."

You can also use the **Test** button to reset the Adapter to its factory default settings. For help, see "Resetting the Adapter to Factory Defaults" on page 43.

Assigning the IP Address

The Adapter connects to the network automatically and obtains its TCP/IP settings, including an IP address, if your network assigns IP addresses from a DHCP server.

If your network does not use DHCP or if you want to configure a static IP address, use ARP (Address Resolution Protocol) to assign a fixed IP address to the Adapter. Configure a static IP address using the web browser interface (see Chapter 2, “Configuring the Adapter”).



Note: The IP address you assign to the Adapter must be on the same logical network as your host computer. For example, if your computer has an IP address of 192.189.207.3, the Adapter should have an IP address of 192.189.207.*n* (where *n* is an integer between 1 and 254).

To get the IP address using a Windows-based PC

- 1 On your PC, choose: **Start > Program > Accessories > Command Prompt**. The command prompt appears.
- 2 Type the following command (and then press **Enter**):
`arp -a`
- 3 Verify that there are ARP entries in the table. Go to Step 5 if there are no entries.
- 4 Ping a device in your network by typing:

```
ping nnn.nnn.nnn.nnn
```

where *nnn.nnn.nnn.nnn* is the IP address of any network device (your own PC, for example). This command puts an ARP entry in the table.

- 5 Type the following command:

```
arp -s nnn.nnn.nnn.nnn nn-nn-nn-nn-nn-nn
```

```
ping nnn.nnn.nnn.nnn
```

```
arp -d nnn.nnn.nnn.nnn
```

where *nnn.nnn.nnn.nnn* is the IP address of the Adapter, and *nn-nn-nn-nn-nn-nn* is the MAC address of the Adapter.

Example:

```
arp -s 192.168.3.191 00-40-8c-10-00-86
```

```
ping 192.168.3.191
```

```
arp -d 192.168.3.191
```

The host returns either Reply from 192.168.3.191... or a similar message. This reply indicates that the address has been set and communications established.

To get the IP address from a UNIX host machine

These steps also work with Microsoft Windows.

- Type the following command:

```
arp -s host_name nn:nn:nn:nn:nn:nn temp  
ping host_name
```

where:

host_name is the name mapped to the Adapter's IP address. The default name is INTERMEC_#####, where ##### is the last six digits of the MAC address.

nn:nn:nn:nn:nn:nn is the MAC address for the Adapter.

Example:

```
arp -s INTERMEC_0B766F 00:40:8c:10:00:86 temp  
ping INTERMEC_0B766F
```

The host returns either INTERMEC_0B766F is alive or a similar message. This message indicates that the address has been set and communications established.

When you execute the PING command for the first time, you may experience a longer than usual response time.

The ARP command can vary between different UNIX systems. Berkeley System Distribution (BSD) type systems expect the host name and node address in reverse order. Furthermore, IBM AIX systems require the additional argument *ether*. For example:

```
arp -s ether host_name 00:40:8c:10:00:86 temp
```

Setting Up to Print

After you have connected the Adapter to your network and established an IP address, you are ready to set up your printer for printing. This section explains:

- how to print using file transfer protocol (FTP).
- how to set up printing on a Windows NT 4 PC or Windows 2000/XP PC.

Chapter 1 — Installing the Adapter

- how to install and use the Intermecc print monitor on a Windows 95/98 PC.

To set up your printer to print from a UNIX system, see “Configuring for UNIX” on page 34.

Print Using FTP

After installing and connecting the Adapter in your network, you have several options for sending print requests. This section explains how to print using FTP.

To print using an FTP session

- 1 From an MS DOS prompt, log in to the Adapter using the command `ftp ipaddress`, where *ipaddress* is the IP address or name assigned to the adapter. The default name is `INTERMEC_#####`, where *#####* is the last six digits of the MAC address.

- 2 Press **Enter**. You do not need to enter a specific user id and password.

- 3 Enter the following command to print the test label:

```
put c:\path\file_name p1
```

where:

c: the drive with the file you want to print.

path is file directory.

file_name is name of the file you want to print.

p1 is name of the port you want to print to.

- 4 Log out using the command `quit`, `bye`, or `exit`, depending on your FTP version.

Printing From a Windows NT 4 PC or Windows 2000/XP PC

This section explains how to set up printing from a Windows NT 4 PC or Windows 2000/XP PC.

Setting Up for a Windows NT 4 PC

To print from a Windows NT 4 PC, prepare the Windows NT 4 PC for LPR/LPD printing over the TCP/IP network, and then install the printer.

To prepare for LPR/LPD printing

- 1 From the **Start** menu, select **Settings > Control Panel**. The Control Panel dialog box opens.
- 2 Double-click the **Network icon**. The Network dialog box opens.
- 3 Select **Protocols**.
- 4 Add **TCP/IP Protocol**, select **Services**, and add **MS TCP/IP Printing**.

To install a printer

- 1 Install the InterDriver for your printer. For help, see the Software page for your printer on the PrinterCompanion CD.
- 2 From the Start menu, select **Settings > Control Panel**. The Control Panel dialog box opens.
- 3 Double-click the **Printers** folder.
- 4 Click **Add Printer**.
- 5 Select **My Computer** and click **Next**.
- 6 Select **Add Port**.
- 7 In Printer Ports, select **LPR Port** and click **New Port**.
- 8 When asked to Add LPR compatible printer, enter the **IP address** or **name of the Adapter** as the server providing LPD. The default name is INTERMEC_#####, where ##### is the last six digits of the MAC address.
- 9 Enter *prn* as the name of the printer or print queue on the server, where *n* is a number from 1 to 8.
- 10 Choose the printer driver for your printer and click **Next**.
- 11 Enter a printer name and click **Next**.
- 12 Select **Shared** to share the printer across your network (optional).
- 13 Enter a share name, click **Next**, and then click **Finish**.

You can now print from your Windows NT PC to your printer.

Setting Up for a Windows 2000/XP PC

Before you install the printer on a Windows 2000/XP PC, you need to install the printer driver, InterDriver. See your printer's Software page on the PrinterCompanion CD for help.

To install the printer, use the Add Printer wizard to add your printer using the following settings when prompted:

- Choose **Local Printer**.
- Choose **Create a new port** and then **Standard TCP/IP Port**.
- Choose the **InterDriver** for your printer.

You can print after you install the printer as a TCP/IP port.

Setting up for Windows Vista

Windows Vista uses the installation wizard to manage the InterDriver set up. Use the Add Printer wizard to add your printer using the following settings when prompted:

- Choose **Local Printer**.
- Choose **Create a new port** and then **Standard TCP/IP Port**.
- Choose the **InterDriver** for your printer.

You can print after you install the printer as a TCP/IP port.

Setting Up for a Windows 95/98 System

If you use a Windows 95/98 system, you must install the Intermec Print Monitor to print over an Ethernet network.

The Intermec Print Monitor is available on the *PrinterCompanion CD* that ships with your printer. Print Monitor creates a network port for the Ethernet link on a Windows 95/98 system. Consequently, the port acts transparently with any printer driver for Intermec printers and any application program. Because it uses TCP/IP, Print Monitor can be used with IP routers and other IP-based equipment.

To install Intermec Print Monitor

- 1 Place the PrinterCompanion CD in your PC's CD drive. The PrinterCompanion page appears.



- 2 In the left frame, click the button for your printer, such as the PC4. The welcome page for that printer appears.



- 3 In the left menu, click **Software**. The Software Page appears.
- 4 Scroll down the middle of the window and then click the link **Network Software Tools**. The Network Software Tools page appears.

- Click the link **Install Intermec Print Monitor**.



- Follow the instructions for installing Intermec Print Monitor.



Note: Print Monitor returns a message and aborts installation if you have anything other than Windows 95/98 as your operating system. More recent versions of Windows do not require this software.

- When the installation is complete, close the PrinterCompanion screen.

You are now ready to install the printer to TCP/IP ports.

Printer Installation

Once you have successfully installed the PrinterCompanion software from the CD, install the printer using Windows 95/98.

To install the printer

- From the **Start** menu, select **Settings > Printers**. The Printers dialog box appears.
- Double-click **Add Printer** to open the Add Printer Wizard.
- Add the printer that uses the Adapter by selecting the **Local printer** radio button and the printer driver that came with your printer. After you click **Finish** in the last dialog box, the printer appears in the Printers dialog box.

- 4** Right-click the printer in the Printers dialog box, and select **Properties** from the menu. The Properties dialog box appears.
- 5** Click the **Details** tab.
- 6** Click **Add Port**. The Add Port dialog box appears.
- 7** Select the **Other** radio button, select **Intermec Print Monitor**, and then click **OK**. The Port Name dialog box appears.
- 8** In the **Printer Name or IP Address** field, enter the Adapter's IP address.
- 9** In the **Port Name** field, enter the TCP printer port for the Adapter.
- 10** In the **Port Number** field, enter the port number that you want to use. The default is 9100.
- 11** Click **OK**. The new TCP/IP port appears in the Print to the following port drop-down list.
- 12** Select the new port and click **Apply**. The new TCP/IP port is ready.

You are now ready to print to your printer as a TCP/IP port from your Windows 95/98 system.



2 Configuring the Adapter

This chapter explains how to configure the EasyLAN 100e Ethernet Adapter for advanced and network-specific settings, and includes these topics:

- Opening the Web browser *interface*
- Configuring for NetWare
- Configuring for NetBIOS
- Configuring the DLC parameters
- Configuring for UNIX

For information on using console commands to configure the Adapter, see Appendix A, “Console Commands.”

Opening the Web Browser Interface

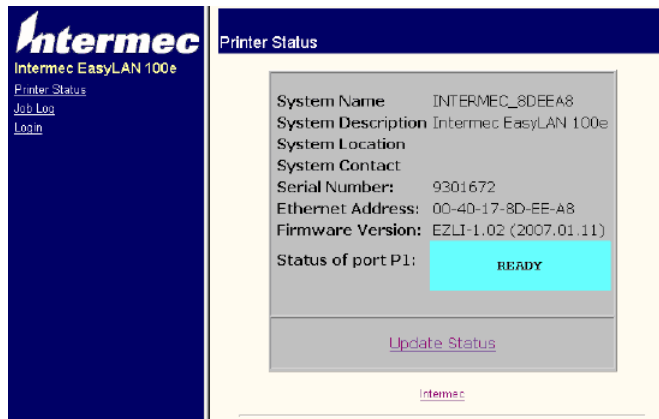
You can use a standard web browser interface to configure the Adapter.

To configure the Adapter

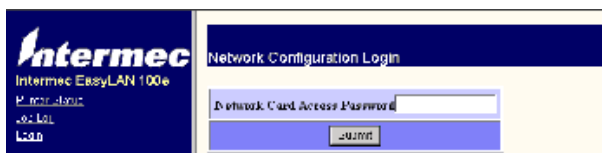
- 1 Start your web browser.
- 2 In the browser's address line, enter the IP address for the Adapter and press **Enter**. Refer to the Test label for the current IP address; if you have not printed a Test label, see “Printing a Test Label” on page 5.

The Printer Status window appears, displaying the main menu selections and the printer's current status information, including:

- System Name
- System Description
- Adapter's Serial Number
- Adapter's Ethernet (MAC) Address
- Firmware Version
- Status of your previously named port



- 3 Click **Login**. The Network Configuration Login screen appears.



- 4 In the **Network Card Access Password** field, enter your password.

The default password is `intermec`.



Note: The Network Card Access Password protects the Adapter from unauthorized changes, limiting access to the main menu page in the web browser interface.

- 5 Click **Submit**. The Printer Status page appears.

You are now ready to configure the Adapter.

Configuring the TCP/IP Parameters

Use the web browser interface to configure advanced parameters or update the Adapter's configuration.



Note: If you are using a DHCP server to assign TCP/IP settings, the Adapter may not need any further configuration.

If your DHCP server allows the adapter to keep its IP address permanently, using DHCP may work well.

In most cases, however, use a static IP address so that you will not have to search for the new IP address when you configure the Adapter and printer port via a web browser interface.

To manually configure TCP/IP parameters

- 1 Open the Adapter's web browser interface. For help, see the earlier section "Opening the Web Browser Interface" on page 16.
- 2 Click **TCP/IP** in the left pane. The Configure TCP/IP page appears.

- Configure the TCP/IP parameters, entering at least the IP address or verifying the IP address assigned by the DHCP server. For help, see the next table.



Note: If the page shows the **Network Card Update Password** field, enter the current Update password. The default is `intermec`.

Intermec		Configure TCP/IP	
Intermec EasyLAN 100e		TCP/IP <input checked="" type="checkbox"/> Enable <input type="checkbox"/> Disable	
Printer Status Job Log Server Settings Printer Port Print Settings NetWare TCP/IP NetBIOS/NetBEUI/DLC PrintNet Alerts and Traps Avalanche Admin Logout		Enabled Services PR1 ?	
		IP Address <input type="text" value="10.10.135.3"/> ? Subnet Mask <input type="text" value="255.255.0.0"/> Gateway <input type="text" value="10.10.0.1"/> ? Boot Method <input type="text" value="AUTO"/> Boot Tries <input type="text" value="3"/>	
		RARP Boot Settings ? <input type="checkbox"/> No Subnet Mask <input type="checkbox"/> No Gateway <input checked="" type="checkbox"/> Set address with ARP/Ping	
		Applications Enabled ? <input checked="" type="checkbox"/> LPD <input checked="" type="checkbox"/> TCP port <input checked="" type="checkbox"/> IPP <input checked="" type="checkbox"/> FTP <input checked="" type="checkbox"/> Telnet <input type="checkbox"/> S-TELNET <input checked="" type="checkbox"/> HTTP <input checked="" type="checkbox"/> HTTPS <input checked="" type="checkbox"/> POP3 <input checked="" type="checkbox"/> SMTP <input checked="" type="checkbox"/> SNMP <input checked="" type="checkbox"/> NETBIOS <input checked="" type="checkbox"/> TFTP	

- Click **Submit** (scroll to the bottom of the page if not visible). The message returned, “Data updated successfully,” indicates the changes were accepted.

Configuration has been modified. The unit must be reset for new values to take effect.

Data updated successfully



Note: If you have entered incorrect or improperly formatted information, the message returned is specific to the task.

- Click another link on the left to make additional changes, or click **Logout** to close the web browser window.

TCP/IP Parameters Defined

Parameter	Definition
TCP/IP	Enable or disable TCP/IP communications. Default = enabled.
Enabled services	Configure the services for the port you are using. For help, see “Configuring Port Services” on page 24.
IP address	Enter the IP address for the Adapter, <i>n.n.n.n</i> where <i>n</i> is from 0 to 255. Default = 0.0.0.0 If you have changed the IP address, after you click Submit , you will have to enter the new IP address in the Address/Go to line to return to web browser control of the print server.
IP address	Enter the IP address for the Adapter, <i>n.n.n.n</i> where <i>n</i> is from 0 to 255. Default = 192.0.0.192 If you have changed the IP address, after you click Submit , you will have to enter the new IP address in the Address/Go to line to return to web browser control of the print server.
Subnet mask	Enter the subnet mask (if setting a static IP address), <i>n.n.n.n</i> where <i>n</i> is from 0 to 255. Default = 0.0.0.0
Gateway	Enter the IP address (<i>n.n.n.n</i> where <i>n</i> is from 0 to 255) for the gateway or router if setting a static IP) address. Default = 0.0.0.0
Boot method	Select the method for finding the Adapter IP address, subnet mask, and gateway address when the printer turns on or the Adapter is reset. Auto sets the Adapter to request an IP address using DHCP, BOOTP, and RARP. If unable to get an IP address using these methods, Auto changes to Static. Default = Auto. DHCP sets the Adapter to obtain an IP address from a DHCP server. BOOTP sets the Adapter to use the boot protocol to get an IP address. RARP sets the Adapter to use the reverse address resolution protocol to get an IP address. Static sets the Adapter to use the IP address set in the IP Address field whenever it boots.

TCP/IP Parameters Defined (continued)

Parameter	Definition
Boot tries	Enter the number of times the boot method tries to set the IP address, subnet mask, and gateway address before using the available values. The default is 3; enter any value from 0 to 255. The boot method must be set to Auto, DHCP, BOOTP, or RARP.
RARP boot settings	Select with check mark whether RARP sets the subnet mask based on the Adapter's IP address and sets the gateway IP address. Default = not checked. To use these settings, set the boot method to RARP or Auto.
TCP window	Enter the maximum TCP window for TCP communications. This value is normally set automatically by the network (1,500 to 65,535), but you may want to change it to optimize network performance.
TCP timeout	Enter the maximum TCP window for TCP communications. This value (10240) is normally set automatically by the network (1,500 to 65,535), but you may want to change it to optimize network performance.
LPD banner	Set the Adapter, using a check mark, to print the banner page in an LPD control file. Default = not checked.
LPD retry	Set the Adapter, using a check mark, to wait for an LPD job that has been terminated before it was completed to be resent. Default = not checked. If the LPD job is resent, the Adapter continues printing the job where it had stopped.
Keepalive timer	Enter how often in minutes (0 to 255) the Adapter sends an IP ping packet to the router to keep the router aware of the Adapter. Default = 5 minutes; enter 0 to disable this feature.

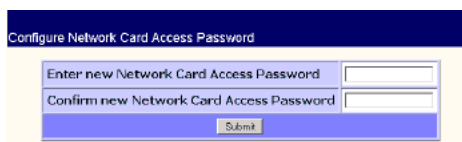
Configuring the Access and Update Passwords

Use the web browser interface to configure the access and update passwords. For help, see “Opening the Web Browser Interface” on page 16.

- The access password protects the Adapter from unauthorized changes, limiting access to the main menu page in the web browser interface.
- The update password allows you to reload the firmware.
- The default password is `intermec`.

To configure the access and update passwords

- 1 Log in to the Adapter's web page.
- 2 Select **Admin** from the menu on the left.
- 3 Click **Configure Network Card Access Password**, and the Configure Network Card Access Password page appears.



- 4 Enter the access password in both fields.
- 5 Click **Submit**, which returns the message “Data updated successfully” to indicate the changes were accepted.
- 6 Update your password when necessary by repeating Steps 1 through 4.
- 7 Click any other command on the left to continue working, or click **Logout** to return to the main access window and then close your browser.

Configuring the Server Settings

The Adapter acts as a print server to control access to the configuration parameters and manage printer resources.

To configure the server settings

- 1 Log in to the Adapter's Admin page if you are not already there.
- 2 From the main menu page, click **Server Settings**.
- 3 In the Server Settings pane, enter a unique name for the Adapter print server. You may additionally:
 - enter a system name and description.

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- enter a contact name and location.
- reset the server.
- restore the factory defaults.

Server Settings	
System Name	<input type="text" value="LABELTAGGER_0346"/>
System Description	<input type="text" value="Intermec EasyLAN 100e"/>
System Contact	<input type="text" value="Jane Austen"/>
System Location	<input type="text" value="2nd Floor, Seattle HQ"/>
SNMP Get Community Name	<input type="text"/>
Confirm SNMP Get Community Name	<input type="text"/>
SNMP Set Community Name	<input type="text"/>
Confirm SNMP Set Community Name	<input type="text"/>
Restart the network interface.	Reset Server
Restore configuration	Restore Defaults
<input type="button" value="Submit"/>	

- 4 Once you have completed any changes, click **Submit**, which returns the message “Data updated successfully” to indicate the changes were accepted.
- 5 Click another command on the left to continue working, or click **Logout** to close the web browser window.

Configuring the Parallel Port

The Adapter communicates with the printer through its parallel port. You can use the web browser interface to change the default settings for the parallel port (also called the printer port).



Note: Change the parallel port settings only if you are directed to do so by Intermec Technical Support.

Configure the parallel port using the web browser interface if you do not want to use the default settings.

To configure the parallel port

- 1 Log in to the Adapter’s web page. For help, see “Opening the Web Browser Interface” on page 16.

- From the main menu page, click **Printer Port**. The Print Port Settings page appears.

Print Port Settings	
Port Name	P1
Job Queue	No jobs active
Status	Parallel Printer READY IPC=SELECT
Port Type	Parallel
Output Mode	[0] Auto
Bi-Directional	<input checked="" type="checkbox"/>
ECP	<input type="checkbox"/>
Software I/O	<input type="checkbox"/>
Output Buffering	<input type="checkbox"/>
PJL Status enable	<input type="checkbox"/>
No input while busy	<input type="checkbox"/>
Input poll delay	<input type="checkbox"/>
Input poll period	1000 msec
Start of job delay	100 msec
Cancel Print Job	Cancel Print Job
Job Log	Job Log
<input type="button" value="Submit"/>	

The first four rows display information about the parallel port including:

- any existing jobs in the port.
 - port status.
 - port name.
 - the port type.
- Configure the necessary parameters. For help, see the next table.

From this window, you may also:

- click the [Cancel Print Job](#) link to cancel existing print jobs.
- click the [Job Log](#) link to view the job log.

- 4 Click **Submit**, which returns the message “Data updated successfully” to indicate the changes were accepted.
- 5 Click another command on the left to continue working, or click **Logout** to close the web browser window.

Parallel Port Parameters Defined

Parameter	Definition	Values
Output mode	Select the mode for data output.	Auto, High Speed, Compatible Default = Auto
Bi-directional communication	Select whether the port supports two-way communications.	Checked, not checked Default = checked
ECP	Enable or disable the Enhanced Capabilities Port (ECP).	Checked, not checked Default = not checked
Software I/O	Enable or disable input/output communication.	Checked, not checked Default = not checked
Output buffering	Enable or disable setting aside a portion of memory for buffering output data.	Checked, not checked Default = not checked
PJL status	Enable or disable printer job language (PJJ) status.	Checked, not checked Default = not checked

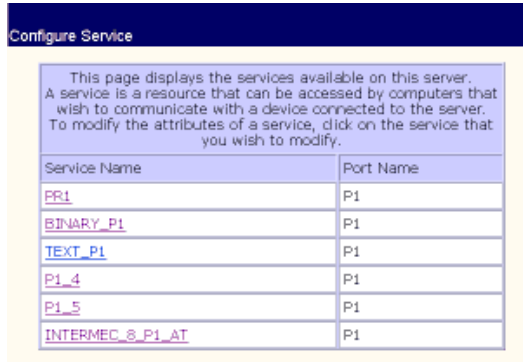
Configuring Port Services

Port services are programs or routines that provide virtual hardware-level support to other programs. Use the web browser interface to change the default settings for the port services.

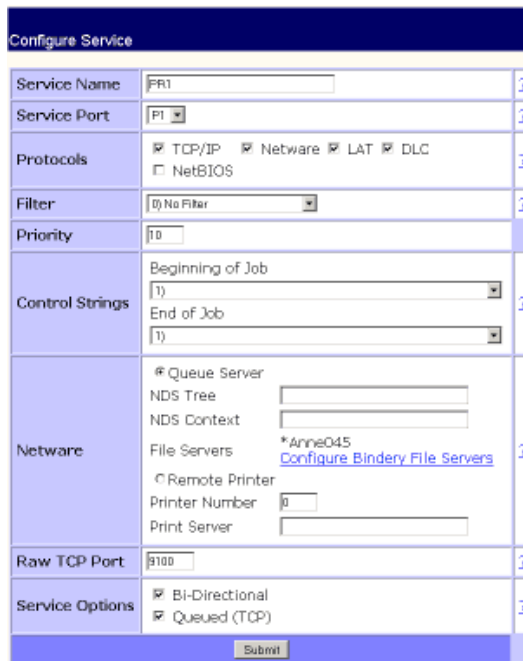
If you selected a service name, such as NetWare, in a network parameter page, begin with **Step 3** in the next procedure.

To configure the port services

- 1 Log in to the Adapter’s web page with your browser. For help, see “Opening the Web Browser Interface” on page 16.
- 2 Click **Print Services** to view the Configure Service page.



- 3 Click the service name for the service you want to configure. For example, click **PR1** to open the following Configure Service window.



- 4 Make any needed changes to the configurable parameters. For help, see the next table.
- 5 Click **Submit**, which returns the message “Data updated successfully” to let you know that the changes were accepted. These changes take effect the next time you reset the Adapter.
- 6 Click another command on the left to continue working, or click **Logout** and close your browser window.

Port Service Parameters

Parameter	Definition
Service name	Enter the name of the service, using any ASCII characters and the MAC address. Default = INTERMECnnnnnn_P1, where <i>nnnnnn</i> is the last six digits of the MAC address.
Service Port	Select the port (P1) that the service runs on.
Protocols	Choose the protocols the service uses to communicate. TCP/IP, NetWare, DLC, NetBIOs, Default = TCP/IP, Netware, DLC.
Filter	Select the data filter the service uses (default = 0): <ul style="list-style-type: none">• 0, no filter: data passes unmodified• 1, text substitution: default is CRLF for line feed (LF)• 2, not used• 3, converts normal text to PostScript• 4, converts output data to PostScript Tagged Binary
Priority	Enter the priority (0 to 255): a small number equals a high priority. Default = 10
Control strings	Select the data strings (predefined) for the beginning of a job and end of a job. Default = No string

Port Service Parameters (continued)

Parameter	Definition
Queue server	Use check mark to configure the Adapter to fetch print jobs directly from the NetWare print queues. Default = No string.
NDS tree	Enter the name of the organizational tree (with any ASCII character) and enter the context for your NetWare network. Default = blank. To configure the Adapter for NetWare Directory Services, choose the Queue Server radio button and enter an NDS tree name and context for the Adapter. To disable NDS support, leave the NDS Tree field and the NDS Context field blank.
NDS context	Enter the organizational unit(s) that you configured for the Adapter using NWAdmin or PCONSOLE using any ASCII character. Default = blank. To disable NDS support, leave the NDS Tree field and the NDS Context field blank.
Bindery File Servers or Service Bindery File Server	Click either Configure Bindery File Servers or Configure Service Bindery File Servers . For help, see “To configure bindery and service bindery file servers” on page 30.
Remote printer	Check this button if you have a NetWare print server loaded on the file server or workstation. Default = not checked.
Printer number	Enter the NPrinter number (from 0 to 255) on your NetWare server. Default = 0.
Print server	Enter the name of the NetWare print server using any ASCII character. Default = blank
Raw TCP port	Enter a number (from 1024 to 65,535) for the TCP port to be used with this service. Default = 9100.
Bi-directional communication	Configure the service to send data back from the printer to the network (checked, not checked). Default = checked. Normally you should not need to change this.
Queued (TCP) communication	Configure the Adapter to queue jobs sent to the raw TCP port (checked, not checked). Default = checked. If not configured, the Adapter rejects jobs if the Adapter is currently busy with another job.

Configuring for NetWare

The Adapter automatically makes itself known on a NetWare network. The default NetWare Print Server name is PR1. Use this NetWare Print Server name for either NDS or bindery mode configuration.

Use your web browser to configure NetWare parameters. Configure additional queues using the Novell NWAdmin utility.



Note: Intermecc recommends you use the Novell 32-bit client on your Windows PC instead of the Microsoft NetWare client. The Novell client allows direct configuration of print queues without the need for a Novell utility like NWAdmin or PCONSOLE.

If you are configuring the first port using the web browser interface, the NDS Printer Name for this port is automatically assigned as INTERMEC`nnnnnn`_P1, where `nnnnnn` is the last six digits of the MAC address.

You may assign any unique name for the printer if you are using an alternate configuration method like NWAdmin. For help configuring the first printer port, see “Configuring the Parallel Port” on page 22.

You use the Print Server and Printer names extensively while configuring NetWare services. These names are actually the names of the Adapter’s NetWare services. You can change the default names using the web browser interface. For help, see “Configuring Port Services” on page 24.

Configuring the NetWare Parameters

While the Adapter makes itself known automatically on a NetWare network, you can optionally configure the NetWare parameters using the web browser interface.

To configure the NetWare parameters

- 1 Log in to the Adapter using the web browser interface. For help opening this page, see “Opening the Web Browser Interface” on page 16.
- 2 Click **NetWare**. The Configure Netware page appears.

Configure Netware	
Network	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Enabled Services	PR1
Active Servers and Queues	ANNE045: Unable to find file server Configure Bindery File Servers
Frame Type	(0) AUTO
Netware Password	Enter new password <input type="text"/> Confirm new password <input type="text"/>
<input type="button" value="Submit"/>	

- 3 Select **Enable** to activate NetWare communications. Read the information in the Active Servers and Queues to determine the enabled servers and queues.
- 4 Configure the parameters. For help, see the next table.
- 5 To configure services for the port shown in the Enabled Services row, click the link for that port. For help, see “Configuring Port Services” on page 24.

Read the information in the Active Servers and Queues row to find out what servers and queues are enabled.
- 6 To configure bindery file servers, click **Configure Bindery File Servers**. For help, see “To configure bindery and service bindery file servers” on page 30.
- 7 Configure other NetWare parameters (for help, see “NetWare Parameters Defined” in the table that follows).
- 8 If the page displays the **Network Card Update Password** field, enter the current **Update password** (the default is *intermec*).
- 9 Click **Submit**, which returns the message “Data updated successfully” to indicate that your changes were accepted.
- 10 Click another command on the left to continue working, or click **Logout** and close the web browser window.

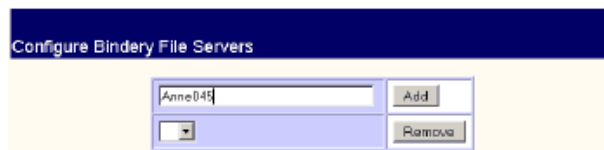
Netware Parameters Defined

Parameter	Definition
NetWare	Enable or disable NetWare communications. Default = Enable.
Enabled services	Configure the services on the port you are using (enable, disable). For help, “Configuring Port Services” on page 24.
Bindery file servers	Click either Configure Bindery File Servers or Configure Service Bindery File Servers . For help, see the next procedure “To configure bindery and service bindery file servers.”
Frame type	Select the frame type: Auto, 802.3, Ethernet II, 802.2, SNAP. Default = Auto.
NetWare password	Enter the password the Adapter uses to communicate with the file server (any ASCII characters) in the Enter new password field and Confirm new password field. Default = blank. To disable the password, enter a single space.

To configure bindery and service bindery file servers

- 1 In the Active Servers and Queues row of the Configure NetWare page or the NetWare row of the Configure Service page, click **Configure Bindery File Servers** or click **Configure Service Bindery File Servers**.

Based on your selection, either the Configure Bindery File Servers page or Configure Service Bindery File Servers page appears.



- 2 To add a server, enter a server number in the box and click **Add**.

To remove a server, select a server from the drop-down list and click **Remove**.

- 3 Click **Submit**, and the status pane displays the message, “Configuration has been modified. The unit must be reset for new values to take effect. Data updated successfully.”
- 4 Click another command on the left to continue working, or click **Logout** to return to the main browser login window.

Configuring Additional Queues

Additional queues must be configured using the Novell NWAdmin utility. This program is usually found in the Public directory on the NetWare file server.

To configure additional queues and ports

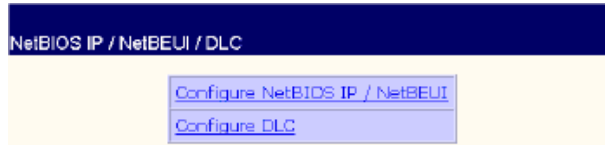
- 1 Start the NWAdmin utility.
- 2 Make sure you are in the right context (that is, login profile).
If not, select **Tools > NDS Browser** then browse for the needed context.
- 3 Select the container where you want the print queue to reside.
- 4 From the Tools menu, select **Print Services Quick Setup**.
- 5 Browse for the NetWare Print Server by clicking on the button next to the **Print Server Name** window.
- 6 Enter the name of the NDS Printer for the preferred port in the **Name** box (for example, INTERMEC04ECBA_P1).
- 7 Leave the **Type** box at the default Parallel setting.
- 8 Select the preferred banner type.
- 9 Enter any name for the print queue. If necessary, browse for the volume.
- 10 Click **Create** to create the print queue. You are now ready to use the queue from a NetWare workstation.

Configuring for NetBIOS

NetBIOS provides application programs with a uniform set of commands for requesting lower-level network services. Nodes on a network require those services to conduct sessions and transmit and receive information. Use your web browser to configure the NetBIOS parameters if you do not want to use the default settings.

To configure for NetBIOS

- 1 Log in to the Adapter using the web browser interface. For help opening this page, see “Opening the Web Browser Interface” on page 16.
- 2 Click **NetBIOS/NetBEUI/DLC**. The Configure NetBIOS/NetBEUI/DLC page appears.



- 3 Click **Configure NetBIOS/NetBEUI** to display the Configure NetBIOS/NetBEUI page.
- 4 Configure the parameters. For help, see the next table.
- 5 In the **Enabled Services** row, click the displayed port to configure the services for that port. For help, see “Configuring Port Services” on page 24.
- 6 Verify that the **Computer Name** row displays the name you assigned to the Adapter.
- 7 If the page displays the **Network Card Update Password** field, enter the current **Update password** (the default is `intermec`).
- 8 Click **Submit**, which returns the message “Data updated successfully.” The changes take effect following the next Adapter reset.
- 9 Click another command on the left to continue working, or click **Logout** and close the web browser window.

NetBIOS Parameters

Parameter	Definition
NetBEUI protocol	Enable or disable communication over the NetBEUI protocol. Default = enable.
NetBIOS/IP	Enable or disable communication over the Internet protocol. Default = enable.

NetBIOS Parameters (continued)

Parameter	Definition
Enabled services	Configure the services on the port you are using. For help, see “Configuring Port Services” on page 24.
Domain name	Enter the name of the domain that contains the PCs that will print to this printer. Any ASCII characters. Default = INTERMEC.
WINS server method	Select the server method: <ul style="list-style-type: none"> • Set to Auto to use DHCP to set primary and secondary WINS server IP addresses. To use DHCP, you must set the boot method in the Configure TCP/IP page to either Auto or DHCP. • Set to Static (<i>n.n.n.n</i> where <i>n</i> is from 0 to 255) to fix the values in the Primary and Secondary WINS Server IP Address rows. This disables WINS registration. Default = 0.0.0.0
Primary WINS server IP address	Enter the IP address for the primary WINS server (<i>n.n.n.n</i> where <i>n</i> is from 0 to 255). Default = 0.0.0.0
Secondary WINS server IP address	Enter the IP address for the optional secondary WINS server <i>n.n.n.n</i> where <i>n</i> is from 0 to 255). Default = 0.0.0.0

Configuring the DLC Parameters

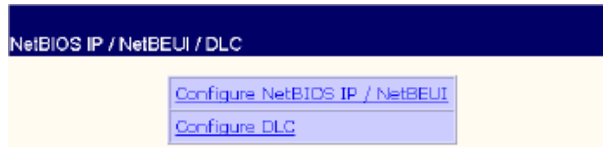
Data link control (DLC) error-correction protocol in the Systems Network Architecture (SNA) manages data transmission between two nodes over a physical link.

Use the web browser interface to configure the DLC parameters if you do not want to use the default settings.

To configure the DLC parameters

- 1 Log in to the Adapter using the web browser interface. For help opening this page, see “Opening the Web Browser Interface” on page 16.

- 2 Click **NetBIOS/NetBEUI/DLC**. The Configure NetBIOS/NetBEUI/DLC page appears.



- 3 Click **Configure DLC** to display the Configure DLC page.



- 4 In the DLC row, select **Enable** or **Disable**.
- 5 In the **Enabled Services** row, click the **port** for which you are configuring services. For help, see “Configuring Port Services” on page 24.
- 6 Click **Submit**, which returns the message “Data updated successfully” to let you know that the changes were accepted. Your changes take effect following the next Adapter reset.
- 7 Click another command on the left to continue working, or click **Logout** and close the web browser window.

Configuring for UNIX

The Adapter appears to the network as a UNIX host computer with a unique IP address running the line printer daemon (lpd) protocol. As a result, any host computer that supports the Berkeley remote-LPR command can spool jobs to the Adapter without the need for any special software on the host computer.



Note: Before you configure a UNIX print queue, the Adapter must have a valid IP address. See “Configuring the TCP/IP Parameters” on page 17 for help.

Configuring for Berkeley UNIX

Berkeley UNIX host computers include Linux, Digital Equipment Corporation Digital UNIX, OSF/1, and ULTRIX; Compaq Tru64 UNIX; SunOS (not Solaris), SCO UNIX; and many others. Sun Solaris, HP-UX, and IBM AIX users should skip to the appropriate sections later in this chapter.



Note: Do not use the Linux X-Windows graphical user interface printer configuration utility, which does not work with the Adapter. Instead, Linux users should follow the configuration steps listed in this section.



Note: SCO UNIX users should use the **ripconf** command to create a printer and automatically configure the `/etc/printcap` file (you still need to edit the `/etc/hosts` file).

Enter the Adapter's service name (`INTERMEC_#####_P1` where `#####` is the last six digits of the MAC address) as the name of the printer (refer to the Adapter's test label for the exact name of this service), and enter the name of the Adapter that you assigned in the `etc/hosts` file as the remote host name. Because this name must be unique for each printer, we recommend using the `INTERMEC_#####_P1` service instead of the generic `BINARY_P1` service.

To configure as a Berkeley UNIX host

- 1 Edit the `/etc/hosts` file (or equivalent local host table). For example:

```
192.189.207.33 imcprinter
```

- 2 Edit the `printcap` file. For example:

```
LabelPrinter:\
:lp=\
:rm=IMCD:\
:rp=BINARY_P1:\
:sd=/usr/spool/LabelPrinter:
```

where:

LabelPrinter is the queue name.

IMC matches the name in the `hosts` file.

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BINARY_P1 is the Adapter's service name. Use *TEXT_P1* instead of *BINARY_P1* for text files.

sd is the spool directory.

- 3 Create the spool directory. The lpd spool directory is usually located in the */usr/spool* directory. To create a new spool directory, use the *mkdir* command. For example:

```
mkdir /usr/spool/lpd/LabelPrinter
```

- 4 Print using the standard *lpr* command:

```
lpr -PLabelPrinter filename
```

For AT&T based UNIX systems, such as SCO, use the standard *lp* command:

```
lp -dLabelPrinter filename
```

Configuring for Sun Solaris

To use the Adapter with Sun Solaris, first add both the Adapter's IP address and name to the */etc/hosts* file using the Admintool utility Host Manager.

To use Host Manager to add the IP address

- 1 Open **Host Manager** in the Admintool utility. For help, see the documentation for your Sun Solaris system.
- 2 Click **None – Use /etc files on host**.
- 3 Click **Apply**.
- 4 Click **Edit** and then click **Add Host**.
- 5 Enter the Adapter's name as the **Host Name** (this name is anything you want it to be, although the underscore [*_*] character is not permitted).
- 6 Enter the **IP address** and **MAC address** of the Adapter (the MAC address uses the format *aa:bb:cc:dd:ee:ff*).
- 7 Click **Add**.
- 8 Close the Host Manager windows. You are now ready to use the Printer Manager in the Admintool utility.

To use the Printer Manager

- 1 Open the **Printer Manager** under Open Windows in the Admintool utility. For help, see the documentation for your Sun Solaris system.
- 2 Select **Edit**.
- 3 Select **Add**.
- 4 Select **Add Access to Remote Printer**.
- 5 At the **Printer Name** prompt, type a name for the print queue.
- 6 At the **Printer Server** prompt, type:

name\!*servicename*

where:

name matches the Adapter's name as entered in the hosts table.

servicename is the print service name. For binary graphics files, use the service BINARY_P1; for text files, use the service TEXT P1.

- 7 Make sure that the printer server OS is set to **BSD** (this is the default setting).
- 8 Select **Add**.
- 9 To print, use the standard lp command.

```
lp -dLabelPrinter filename.
```



Note: We recommend using the `/etc/hosts` file for the printer name rather than NIS or other name services.



Due to a bug in the Sun `lpd` implementation on Solaris 2.4 and earlier releases, you may encounter printing problems on very long print jobs. Configure the Adapter as an HP JetDirect card using the HP JetAdmin for UNIX software for a bug work-around.

Solaris print queues can also be configured from the UNIX shell using the `lpadmin` command.

Configuring for HP-UX

Use the Adapter with an HP-UX host with the following configuration changes.

To configure as an HP-UX host:

- 1 Open the **sam** program in GUI mode.
 - 2 Double-click **Printers and Plotters**.
 - 3 Double-click **HP Distributed Printer Services**.
 - 4 Double-click **Physical Printer**.
 - 5 Select **Actions**, and then select **Add Physical Printer with Network Interface**.
 - 6 Enter any name in the **Supervisor** field (for example, `print`).
 - 7 If you have not already created the printer name, which is the name of the print queue, you must perform these steps:
 - a Open a different terminal or console.
 - b Open the HOSTS file (found in `/etc/hosts`).
 - c Type the IP address for the Adapter, followed by a space and the printer name.
 - d Save the HOSTS file.
 - e Close the terminal or console.
 - 8 Enter the IP address of the Adapter as the Remote System Name.
 - 9 Enter the preferred Adapter's service name (`BINARY_P1` for binary files or `TEXT_P1` for text files) as the Remote Printer Name.

Check that the box next to Remote Printer is on **BSD System**.
- You may also choose to accept the default values for the remaining items.
- 10 Click **OK** to configure the printer.

Print using the `lp -d` command with the Adapter's name.



Note: The configuration for HP Distributed Print Services and for earlier version of HP-US is slightly different.

You can also configure the Adapter as a JetDirect card using HP-UX. To do this, you need the UP UNIX Host Printing Software (part of HP's JetAdmin for UNIX).

Configuring for IBM AIX

Use the AIX (System Management Interface Tool) SMIT program, following these steps.

To configure as an IBM AIX host

- 1 Enter `smit` and select **Devices**.
- 2 Select **Printer/Plotter**.
- 3 Select **Manage remote printer subsystem**.
- 4 Select **Client services**.
- 5 Select **Remote printer queues**.
- 6 Select **Add a remote queue**.
- 7 Enter the following remote queue settings:
 - a Name of queue to add (user selectable)
 - b Activate the queue (Yes)
 - c Destination host (Adapter's IP address; or if you have configured the `/etc/hosts` file, use the Adapter name you specified in that file)
 - d Remote printer queue name (BINARY_P1 for binary files or TEXT_P1 for text files)
 - e Name of device to add (user selectable; for example, `lp0`)
- 8 Print using the `lp -d` command.



Note: The configuration for earlier versions of AIX is slightly different.

You can also configure the Adapter as a JetDirect card using AIX. To do this, refer to your AIX documentation.

Configuring for Other Systems

You can use the Adapter with any computer system that supports either the lpr/lpd protocol or the HP JetDirect card. The Adapter's parallel port uses port 9100 by default. Refer to your system's documentation for information on configuring lpr/lpd or JetDirect print queues.



3 Troubleshooting and Managing the Adapter

This chapter explains troubleshooting and managing the EasyLAN 100e Ethernet adapter and covers these topics:

- Troubleshooting Printing Problems
- Troubleshooting Network Configuration Problems
- Managing the Adapter
- Printing Test Label
- Reloading Firmware
- Using the Web Browser Interface

Troubleshooting Printing Problems

First, make sure the printer has power. Check the printer connection to your computer. Verify the printer has both media and ribbon.

If the printer appears to be functioning, test the connection between the printer and the Adapter by pushing the **Test** button on the back of the printer for no more than 5 seconds.



Note: If a test label does not print, the printer may still be able to print through the Adapter. Set up the printer as you normally would and try printing from an application.

If the test label does not print, try resetting the Adapter to factory defaults by pressing and holding the recessed **Test** button for more than 5 seconds.

Troubleshooting Network Configuration Problems

If you are using TCP/IP, make sure that your computer and the Adapter are on the same IP segment or can reach each other with a PING command from the host.

The IP address you assign to the Adapter must be on the same logical network as your host computers (for example, if your computer has an IP address of 192.189.207.3, the Adapter should have an IP address of 192.189.207.*n* where *n* is an integer between 1 and 254), or you must properly configure your router address to work with the Adapter.

As long as your Adapter is set to Auto or DHCP for obtaining an IP address, the Adapter's IP address can change. Either configure your DHCP server to give the Adapter a permanent address lease or configure the Adapter to be on a static address outside the scope of DHCP addresses. For more help configuring static IP addresses, consult your network administrator.

Managing the Adapter

This section explains how to:

- reboot the Adapter.
- set the Adapter to factory defaults.
- print a test label.

- reload firmware.

Rebooting the Adapter

You can reboot (restart) the Adapter using your web browser. For help opening the Adapter's Admin page, see "Opening the Web Browser Interface" on page 16.



Note: Only the Adapter reboots, not the entire printer. For troubleshooting printer issues, refer to the instruction manual for your printer.

To reboot the Adapter

- 1 Click **Server Settings** from the left menu. In the Server Settings page, click **Reset Server**. The ResetServer page displays the following warning.



- 2 Click **Submit**. A page appears confirming that the Adapter has been reset.
- 3 Click another command on the left to continue working, or click **Logout** and close the web browser window.

Resetting the Adapter to Factory Defaults

Use the **Test** button or the web browser interface to set the Adapter to factory defaults.



Note: This guide covers only the Adapter factory defaults, and resetting affects only the Adapter, not the printer itself.

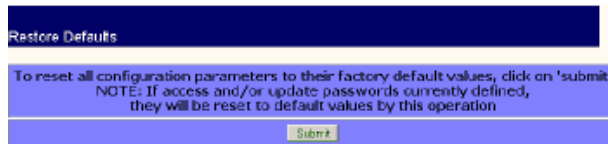
If your network uses DHCP, the Adapter may receive a new IP address after being set to factory defaults. Print a test label to view the assigned IP address. For help, see "Printing a Test Label" on page 44. If you do not have a DHCP server, you need to set a static IP address after setting the Adapter to defaults.

To reset using the Test button

- Press and hold the **Test** button for more than 5 seconds.

To reset using the web browser interface

- 1 From the Server Settings page, click **Restore Defaults**. For help opening the Server Settings page, see “Opening the Web Browser Interface” on page 16.
- 2 Click **Submit**. The Restore Defaults page and warning appears.



- 3 Click **Submit**. A page appears telling you that the Adapter is set to factory defaults.



Note: The access and update passwords are set to the factory default intermec. For more information on what the passwords control, see “Configuring the Access and Update Passwords” on page 20.

- 4 Click another command on the left to continue working, or click **Logout** and close the web browser window.

Printing a Test Label

Use the web browser interface or the **Test** button to print a test label. This section explains how to use the web browser interface. For help using the **Test** button, see “Printing a Test Label” on page 5.

To print a test label using the browser

- 1 From the main menu, while viewing any page, click **Print Test Label**. For help using the web browser, see “Opening the Web Browser Interface” on page 16.

A page appears telling you that the test label has been sent to the printer.

- 2 Click another command on the left to continue working, or click **Logout** and close the web browser window.

Reloading Firmware

You can load firmware on the Adapter using trivial file transfer protocol (TFTP) on Windows NT/2000/XP or the web browser interface.

To use TFTP to reload firmware

- Use the TFTP PUT command:

```
tftp -i ipaddress put pathname password
```

where:

ipaddress is the IP address of the Adapter

pathname is the path and file name for the firmware

password is the password for the Adapter (default password is *intermec*)

Example:

```
tftp -i 10.20.111.35 put c:\ppimc104.bin Intermec
```

Using the Web Browser Interface



Note: Before you can load the firmware onto the Adapter, you need to load the firmware into the /TFTP directory on your TFTP server or into the /LOGIN directory on your NetWare server.

- 1 From the Admin Configuration page, click **Update Firmware**. The Reload Firmware page appears. For help opening the Admin Configuration page, see “Opening the Web Browser Interface” on page 16.



- 2 In the **Firmware file name field**, enter the file name for the firmware. If the new firmware is not in the /TFTP directory (TFTP server) or the /LOGIN directory (NetWare server), enter the path for the firmware before the file name.



Note: If you are using the SolarWinds TFTP server on a Windows 95/98 PC, you need to enter ./ before the file name for the firmware.

- 3 If the new firmware is on your TFTP server, enter the **IP address** for the TFTP server in the form *n.n.n.n*, where *n* is a number from 0 to 255.

If the new firmware is on your NetWare server, enter the name of the Netware server.

Chapter 3 — Troubleshooting and Managing the Adapter

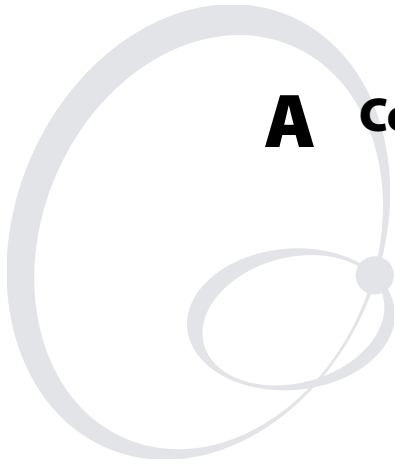
- 4 Click **Submit**. If you enabled reload on submit, the firmware is sent to the Adapter, and a message page appears letting you know the reload was successful.
- 5 Click any other command from the menu on the left to continue, or select **Logout** to leave the Adapter configuration.

Latest Firmware

To obtain the most current firmware, visit the Intermec website, www.intermec.com.

To download latest firmware

- 1 Visit the Intermec web site at www.intermec.com.
- 2 Click **Service & Support > Downloads**.
- 3 In the **Select a Product** field, choose the product whose firmware you want to download.



A Console Commands

This appendix explains how to send the console commands and provides a list of the commands.

Sending the Console Commands

You can send console commands to the Adapter by using either Telnet or the web browser interface.



Note: Using console commands to configure the Adapter can interfere with your connection through the web browser. You can minimize the disruption to your printer connection by configuring with the web browser.

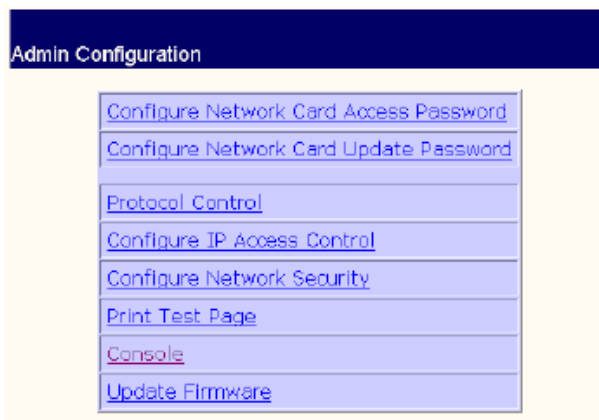
The following procedure explains how to use the web browser interface. For help using Telnet, see your Telnet documentation.

When using the web browser interface console mode to send commands, you should only use commands that show information, such as `sh port`, which shows the port parameters, or commands that do not have an equivalent web page.

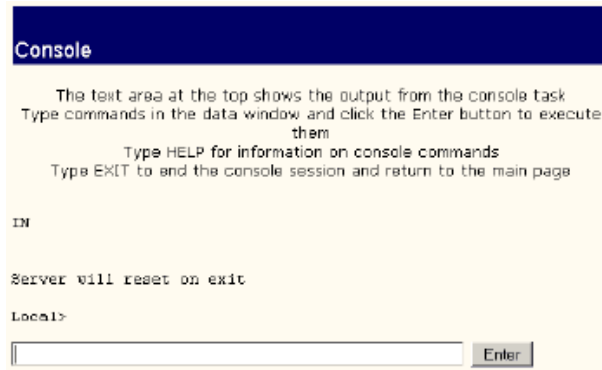
Most of the parameters that you can configure using console commands can also be configured through the web browser interface.

To send the console commands

- 1 From the menu, select **Admin** to open the Admin Configuration page. For help opening the main web page, see “Opening the Web Browser Interface” on page 16.



- 2 Click **Console**. The Console page appears.



- 3 Enter the commands you want to send and click **Enter**. For a list of commands, see the next section.
- 4 Click any of the menu items on the left side to return to Admin or to select other functions.

General Commands

The following table lists general console commands for configuring and managing the Adapter.

General Console Commands

Command	Description
<code>cl serve st <i>stringnumber</i></code>	Removes the specified string number.
<code>cl fa</code>	Deletes the fatal error log.
<code>cl po pl job</code>	Clears the current entry in the Adapter's internal queue for the parallel port.
<code>exit/^d</code>	Exits console.
<code>he</code>	Provides information on available commands.
<code>in</code>	Resets the Adapter.
<code>set default</code>	Sets the Adapter's parameters to factory default settings.
<code>set load dis</code>	Disables the firmware reload after exit.

General Console Commands (continued)

Command	Description
set load en	Enables the firmware reload after exit.
set load ho <i>name</i>	Sets the node name of the boot host for NetWare firmware load. Load the firmware into the /LOGIN directory.
set load ip <i>n.n.n.n</i>	Sets the IP address of the load host (TCP/IP firmware load). Load the firmware into the /TFTP directory.
set load so <i>filename</i>	Sets the host filename of the firmware to load.
set pa <i>password</i>	Sets the console password. The default password is intermec.
set port p1 ackh <i>status</i>	Enables or disables pACKH on parallel port (for older printers), where <i>status</i> equals en for enabled or dis for disabled.
set port p1 bid <i>status</i>	Enables or disables Bi-directional mode on the parallel port, where <i>status</i> equals en for enabled or dis for disabled.
set port p1 dvid <i>status</i>	Enables or disables 1284 device ID queries on the parallel port, where <i>status</i> equals en for enabled or dis for disabled.
set port p1 ecp <i>status</i>	Enables or disables 1284 ECP mode on the parallel port, where <i>status</i> equals en for enabled or dis for disabled.
set port p1 fstb <i>status</i>	Enables or disables Fast Strobe mode on the parallel port., where <i>status</i> equals en for enabled or dis for disabled.

General Console Commands (continued)

Command	Description
<code>set port p1 nbuf status</code>	Enables or disables no buffering on parallel port, where <i>status</i> equals <code>en</code> for enabled or <code>dis</code> for disabled.
<code>set pro password</code>	Sets the console protection password to prevent access to set commands. (Use the <code>unprotect</code> command to access set commands.)
<code>set serve de</code>	Sets the node description string displayed with the <code>show server</code> command.
<code>set serve str n "..."</code>	Defines the Adapter's BOT/EOT string.
<code>set servi servicename protocol status</code>	Enables or disables specified protocol on the specified service. Where <i>servicename</i> is the name of the service you are modifying, <i>protocol</i> is the protocol to enable or disable, and <i>status</i> equals <code>en</code> for enabled or <code>dis</code> for disabled.
<code>set servi servicename bot nn</code>	Sets the service BOT string, where <i>servicename</i> is the name of the service you are modifying and <i>nn</i> is the BOT string.
<code>set servi servicename eot nn</code>	Sets the service EOT string to <i>nn</i> , here <i>servicename</i> is the name of the service you are modifying and <i>nn</i> is the EOT string.
<code>set servi servicename fi nn</code>	Sets the service filter to <i>nn</i> , where <i>servicename</i> is the name of the service you are modifying and <i>nn</i> is the service filter.
<code>set servi servicename fms matchnumber</code>	Sets the service with the specified match string number, where <i>servicename</i> is the name of the service you are modifying and <i>matchnumber</i> is the match string number.

General Console Commands (continued)

Command	Description
<code>set servi <i>servicename</i> frs <i>replacenumber</i></code>	Sets the service with the specified replacement string number, where <i>servicename</i> is the name of the service you are modifying and <i>replacenumber</i> is the replacement string number.
<code>set servi ip <i>servicename</i> <i>status</i></code>	Enables or disables IP service jobs, where <i>servicename</i> equals the name of the service and <i>status</i> equals <code>en</code> for enabled or <code>dis</code> for disabled.
<code>set servi <i>servicename</i> na <i>newname</i></code>	Changes the service name, where <i>servicename</i> is the name of the service you are modifying and <i>newname</i> is the new name for the service.
<code>set servi <i>servicename</i> rec <i>status</i></code>	Enables or disables Receive Only mode on the specified service, where <i>servicename</i> equals the name of the service and <i>status</i> equals <code>en</code> for enabled or <code>dis</code> for disabled.
<code>sh fat</code>	Displays the fatal error log.
<code>sh free</code>	Displays the memory available.
<code>sh loa</code>	Displays the firmware update parameters.
<code>sh port</code>	Displays the port parameters.
<code>sh snmp <i>argument</i></code>	Displays the SNMP variables for the indicated SNMP item, where <i>argument</i> is the SNMP item.
<code>sh port p1 sta</code>	Displays the current port status.
<code>sh serve co</code>	Displays the Adapter's statistics.
<code>sh servi</code>	Displays the service parameters.
<code>sh te</code>	Prints the test label.
<code>sh ve</code>	Displays the Adapter's firmware version.

General Console Commands (continued)

Command	Description
<code>unpro</code>	Allows the system manager to temporarily access set commands when the remote console is in protected mode. The set default command can be used to permanently disable the protected mode.
<code>ze</code>	Zeroes statistical counts.

TCP/IP Commands

Use these console commands to configure and manage TCP/IP parameters.

TCP/IP Console Commands

Command	Description
<code>set ip ac <i>status</i> <i>n.n.n.n</i></code>	Enables or disables a specified IP address from accessing the Adapter, where <i>status</i> equals <code>en</code> for enabled, <code>dis</code> for disabled, or <code>all</code> for enabling all IP addresses, and <i>n.n.n.n</i> equals the specific IP address.
<code>set ip ad <i>n.n.n.n</i></code>	Sets the IP address of the Adapter, where <i>n.n.n.n</i> equals the IP address.
<code>set ip bo <i>n</i></code>	Sets the number of BOOTP/RARP tries, where <i>n</i> is the number of BOOTP/RARP tries.
<code>set ip <i>status</i></code>	Enables or disables IP processing, where <i>status</i> equals <code>en</code> for enabled or <code>dis</code> for disabled.
<code>set ip meth stat</code>	Sets the IP address to a static address so that the Adapter will not look for a DHCP address.

TCP/IP Console Commands (continued)

Command	Description
set ip ra <i>nn</i>	Sets the procedure used by the Adapter when obtaining its IP address. By default, this sets the IP address along with a default subnet mask and a router address that is the same as the address of the load host. By setting <i>nn</i> to 1, the subnet mask is not set. If <i>nn</i> is set to 2, the router address is not set. If <i>nn</i> is set to 3, neither the subnet mask nor the router address is set.
set ip ro <i>n.n.n.n</i>	Sets the default router address, where <i>n.n.n.n</i> equals the router (gateway) IP address.
set ip su <i>n.n.n.n</i>	Sets the subnet mask, where <i>n.n.n.n</i> equals the subnet mask.
set ip ti <i>n</i>	Sets the inactivity time-out in minutes. Where <i>n</i> is the number of minutes.
set servi <i>servicename</i> ip <i>status</i>	Enables or disables TCP/IP jobs on the specified Adapter, where <i>servicename</i> equals the name of the service and <i>status</i> equals en for enabled or dis for disabled.
set servi <i>servicename</i> tcp <i>nn</i>	Sets the TCP port number (>1023) on the specified service, where <i>servicename</i> is the service you are modifying and <i>nn</i> is the TCP port number.
sh ip	Shows LPD/TCP/Telnet parameters.
sh ip ac	Shows IP addresses that are allowed to access the Adapter.

NetWare Commands

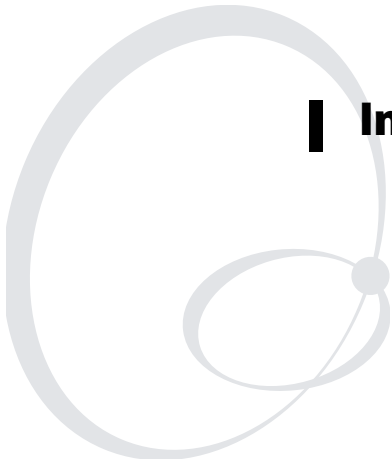
Use these console commands to configure and manage NetWare parameters.

NetWare Console Commands

Command	Description
<code>cl netw se server</code>	Removes the specified NetWare file server from the Adapter's access list, where <i>server</i> is the NetWare file server.
<code>set netw ad n</code>	Sets the advertising frequency of the Adapter, where <i>n</i> is the advertising frequency.
<code>set netw status</code>	Enables or disables the NetWare protocol on the Adapter, where <i>status</i> equals <code>en</code> for enabled or <code>dis</code> for disabled.
<code>set netw fr type</code>	Sets the NetWare frame type, where <i>type</i> equals <code>eth</code> for Ethernet II, <code>al</code> for all, <code>au</code> for auto, or <code>sna</code> for SNAP.
<code>set netw ne n</code>	Sets the NetWare internal network number, where <i>n</i> is the NetWare internal network number.
<code>set netw np pserver n on service</code>	Sets NPrinter mode on the specified service, where <i>pserver</i> is the NetWare print server, <i>n</i> is the NPrinter mode, and <i>service</i> is the service you are modifying.
<code>set netw pa password</code>	Sets the Adapter's login password for the file server, where <i>password</i> is the login password.
<code>set netw po n</code>	Sets the queue polling time in seconds, where <i>n</i> is the number of seconds.
<code>set netw qs fileserv on service</code>	Sets Queue Server mode on the specified service, where <i>fileserv</i> is the NetWare file server and <i>service</i> is the service you are modifying.
<code>set netw re</code>	Rescans the file servers for new queues.
<code>set netw name se status</code>	Enables or disables the file server, where <i>name</i> equals the name of the file server and <i>status</i> equals <code>en</code> for enabled or <code>dis</code> for disabled.

NetWare Console Commands (continued)

Command	Description
<code>set servi servicename net status</code>	Enables or disables NetWare jobs on the specified service, where <i>servicename</i> is the service you are modifying and <i>status</i> equals <code>en</code> for enabled or <code>dis</code> for disabled.
<code>sh netw</code>	Shows the NetWare parameters.
<code>set servi servicename con string</code>	Sets NDS context. Where <i>servicename</i> is the service you are modifying and <i>string</i> is the NDS context.
<code>set servi servicename tree string</code>	Sets NDS tree. Where <i>servicename</i> is the service you are modifying and <i>string</i> is the NDS tree.



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