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#### Preface

## Introduction

The EasyLAN Network Setup is a PC configuration wizard that facilitates the connection of an EasyCoder printer to a wired or wireless network. In simple terms, what you can do is this:

- Connect a printer to the PC via a serial communication channel.
- Start the wizard.
- Select or find out which type of firmware the printer is using (Fingerprint or IPL).
- Establish the communication (port, baud rate, data bits, stop bits, and parity).
- Log in.
- Set up parameters for wireless communication.
- Set up the printer's IP parameters (applies to both Ethernet and wireless communication).
- Review the settings.
- Upload the settings to the printer and, optionally, save the configuration on a CompactFlash memory card inserted in the printer.

## **Supported Platforms**

The EasyLAN Network Setup wizard supports these platforms:

- Microsoft Windows 2003 Server
- Microsoft Windows XP
- Microsoft Windows 2000
- Microsoft Windows NT 4
- Microsoft Windows Me
- Microsoft Windows 98

Microsoft Internet Explorer 5.01 (or higher) is required

## **Printer Firmware and Hardware**

The printer must either be running Intermec Fingerprint v8.10 (or later) or IPL v2.10 (or later). An EasyLAN Ethernet or EasyLAN Wireless interface must be installed.



This chapter describes how to install the EasyLAN Network Setup wizard in a PC.

## Introduction

The installation file for the EasyLAN Network Setup wizard is stored on the CD-ROM included in the EasyLAN Wireless Interface Kit and is called Setup.exe. Installation uses a common installation wizard from Wise Solutions, Inc.

To install the EasyLAN Network Setup wizard, click the installation file and follow the steps listed below.

## **Step-by-Step Instructions**

• After the installation wizard has started, the first screen welcomes you to the wizard and recommends you to exit all Windows programs before starting the installation.



• Click **Next>** to continue.

• A License Agreement is shown. Read it carefully.

🖟 Installation of Intermec EasyLAN Network Setup					
License Agreement You must agree with the license agreement below to proceed.	Falter				
INTERMEC END USER LICENSE AGREEMENT Important: Carefully read this End User License Agreement (EULA) before installing or using the Software. You may use the Software <u>only</u> if You agree to be bound by the terms of this EULA. If You do not agree to the terms of this EULA, You may NOT use the Software and You MUST return the Software and/or the equipment on which it is installed to Intermee for a refund. ANY INSTALLATION OR USE OF THE SOFTWARE INDICATES YOUR AGREEMENT TO BE BOUND BY THE TERMS AND CONDITIONS OF THIS EULA.					
1.0 DEFINITIONS					
1.1 "Software" means the computer program(s) acquired from Intermec or any Revisions thereto. This may include programs written by Intermec as well as operating systems and application programs written by others which have been provided to You or installed on the System					
O I accept the license agreement	Cancel				

• To be able to proceed, you must accept the license agreement by clicking the corresponding radio button.

😼 Installation of Intermec E	asyLAN Network Setup					
License Agreement You must agree with the licens	e agreement below to proceed.	Falter				
INTERMEC END USER LICENSE AGREEMENT Important: Carefully read this End User License Agreement (EULA) before installing or using the Software. You may use the Software <u>only</u> if You agree to be bound by the terms of this EULA. If You do not agree to the terms of this EULA, You may NOT use the Software and You MUST return the Software and/or the equipment on which it is installed to Intermee for a refund. ANY INSTALLATION OR USE OF THE SOFTWARE INDICATES YOUR AGREEMENT TO BE BOUND BY THE TERMS AND CONDITIONS OF THIS EULA.						
1.0 DEFINITIONS						
1.1 "Software" means the con- thereto. This may include programs application programs written by oth	nputer program(s) acquired from Intermec or any Revi s written by Intermec as well as operating systems and ters which have been provided to You or installed on th dod to You in chiest and form only. The Software in	isions he System 💉				
♥ Wise Installation Wizard®	I accept the license agreement I do not accept the license agreement Reset < Back Next >	Cancel				

• Click **Next>** to proceed.

Intermec EasyLAN Network Setup—User's Guide

#### Chapter 1—Installation

• This screen allows you to select a folder where the EasyLAN Network Setup application and its related files will be installed.

By default, the destination folder will be "C:\Program Files\Intermec\ EasyLAN Network Setup." To select another location, click the **Browse** button.

🙀 Installation of Intermec EasyLAN Network Setup	
Destination Folder Select a folder where the application will be installed.	t dear
The Wise Installation Wizard will install the files for Intermec EasyLAN Network Setup in the following folder. To install into a different folder, click the Browse button, and select another folder. You can choose not to install Intermec EasyLAN Network Setup by clicking Cancel to exit the Wise Installation Wizard.	
Destination Folder C:\Program Files\Intermec\Intermec EasyLAN Network Setup\ Browse	
Wise Installation Wizard® < Back Next > Canc	el

- When you have selected a destination, click the Next> button.
- This screen shows the progress of the installation. If you want to interrupt the installation, press **Cancel**.

🔂 Installation of Intermec EasyLAN Network Setup	
Updating System The features you selected are currently being installed.	Falter
Initializing	
Wise Installation Wizard®	
	Cancel

• This screen confirms that the application has been installed.



#### Chapter 1—Installation

- Press the **Finish** button to exit.
- This screenshot shows an example of the files installed. If you are going to use the EasyLAN Network Setup wizard frequently, it may be useful to create a shortcut and place it on your desktop.

C:\Program Files\Intermec\Intermec EasyLan Setup Tool						
File E	lit View	Favorites	Tools	Help		
G Ba	* • E	) - 🍺	) se	earch 😥 Folders 🛄 🗸		
Address	🚞 C: \Pro	gram Files\In	termec\I	ntermec EasyLan Setup		
-				Name 🔺	Size	Туре
File	and Folde	r Tasks	۲	EasyLAN_Network_Setup.chm	335 KB	Compiled HTML
~	Maka a naw	folder		EasyLANSetup.exe	372 KB	Application
	Make a new	rolder	_	IENS_EULA.htm	23 KB	HTML Document
S 2	Publish this Meb	folder to the		S IPControl.ocx	60 KB	ActiveX Control
	Chare this f	folder	_	🔊 itcENSApp.dll	236 KB	Application Exte
		oluci	_	🔊 itcENSAutoConnectLib.dll	85 KB	Application Exte
				SitcENSConnectionLib.dll	137 KB	Application Exte
Othe	r Places			🔊 itcENSPrint.dll	52 KB	Application Exte
				🔊 itcENSPrinterLib.dll	373 KB	Application Exte
	intermec		_	itcErrHand.dll	37 KB	Application Exte
	My Docume	ints	_	🔊 itcHelpLib.dll	93 KB	Application Exte
	My Comput	er	_	🔊 itcProgressLib.dll	45 KB	Application Exte
- š	v Network	Places	_	jitcPropertiesLib.dⅡ	57 KB	Application Exte
3	,,			itcTimerLib.dⅡ	33 KB	Application Exte
				itcUFFLib.dll	61 KB	Application Exte
Deta	ils		۲	itcXmlLib.dll	77 KB	Application Exte
			-	No. 10 Tibinf32.dll	145 KB	Application Exte
Inte Tool File F	rmec Eas older	yLan Setup				

2003, 13:56

## **2** Running the EasyLAN Network Setup wizard

This chapter explains how to use the EasyLAN Network Setup wizard to configure the network parameters in an EasyCoder printer fitted with either an EasyLAN Ethernet interface or an EasyLAN Wireless interface.

## **Starting the Wizard**

- Connect the PC and the printer with a serial communication cable (not USB).
- Start the EasyLAN Network Setup wizard (EasyLANSetup.exe), for example by clicking the EasyLAN Network Setup shortcut icon.



• The start screen appears.

EasyLAN Network Setup - Introduction						
	EasyLAN Network Setup					
formec	This Wizard will help you to set up your EasyLAN Ethernet or EasyLAN Wireless equipped printer.					
About						
Help	Cancel < Back Next > Upload					

• Click the **Next>** button.

### **Establish a Serial Communication**

EasyLAN Network Setup - Communication Settings					
Select values that match your printer. The more you can specify the faster a printer will be found.					
Printer Language: Fingerprint  Port: COM1:  Baudrate: Don't know  Advanced					
Help         Cancel         < Back         Next >         Upload					

- Select the type of firmware (IPL or Fingerprint), port, and baud rate in the drop-down list boxes. If you do not know the baud rate in Fingerprint, select "Don't know" and the wizard will check it automatically.
- If you have selected IPL, or if you have selected Fingerprint and checked the **Advanced** box, you must enter the exact parameters. To read the communication setup, press the <i> key on the printer's keyboard, also see the *User's Guide* of the printer.

EasyLAN Network Setup - Communication Settings						
Select values that match your printer. The more you can specify the faster a printer will be found.						
Printer Language: Fingerprint						
Help         Cancel         < Back         Next >         Upload						

#### Chapter 2—Running the EasyLAN Network Setup

• The printer, that has been found based on the settings in the previous step, is listed together with some additional information. A progress bar is shown as long as the search goes on.

EasyLAN Network Setup - Select Printer								
All found printed are listed below. Select the printer you want to configure and press Next.								
	Deat	Distantia dal	[ Mahurah and	Currented	1			
	COM1	PM4i - Fingerprint	Wireless	Yes				
					]			
Hel	lp 🛛	Cancel	< <u>B</u> ack	<u>N</u> ext >	Upload			

• Click **Next>** to continue.

The serial communication settings of the printer are automatically changed to baud rate 115200, character length 8, and software and hardware handshaking are enabled. The communication parameters will be restored when the printer has been updated or if the wizard is closed before the update is completed.

## Log In

• Next, the "Login" screen is shown.

If the printer accepts the credentials entered by the user, which screen will be shown next depends on the type of EasyLAN:

- EasyLAN Ethernet:
- EasyLAN Wireless:
- "Set IP Parameters" (see page 16) "Use Configuration on CompactFlash" or "Set SSID and WEP Keys" (see page 12) depending on configuration

EasyLAN Network Setup - Login	
You need to login as a user that is allowed to changed the printer's setup.	
User name:	admin
Password:	P
Help	Cancel < Back Next > Upload

• Place the cursor in the appropriate text boxes and type your User name (default admin) and your Password (by default pass), then click Next>.

## **Use Configuration on CompactFlash**

• The EasyLAN Network Setup wizard allows configuration files to be stored on CompactFlash memory cards, see later in this chapter. If such a card is detected in the printer, it is possible to load the file and reuse the settings.



## Set SSID and WEP Keys

• This screen is used for configuration of parameters related to wireless communication (IEEE 802.11b).

EasyLAN Network Setup - SSID and WEP keys	
Set the SSID and WEP settings.	
SSIE	): [INTERMEC
	ireless Network keys
R	Enable WEP     Keys entered in hexadecimal format
	WEP key 1:
	WEP key 2:
	WEP key 3:
	WEP key 4:
A	uctive WEP key: Wep key 1
Help	Cancel < Back Next > Upload

The following parameters and options are available:

- SSID (Service Set Identifier):

A 32-character unique identifier that differentiates one wireless LAN from another when they overlap in regard of frequency and coverage area. Default is **INTERMEC**.

- Enable WEP (Wired Equivalent Privacy): If checked, the "WEP key 1-4", the "Active key", and the option "Keys entered in hexadecimal format" are enabled.

- Keys entered in hexadecimal format: Specifies if "WEP keys 1-4" are to be entered in hexadecimal format instead of alphanumeric.
- WEP key 1-4:

WEP (Wired Equivalent Privacy) is a data encryption method used to protect the transmission between IEEE 802.11b wireless stations and access points. Here you can configure four different encryption keys. Both WEP 64 and WEP 128 are supported.

- Active key:

Select which WEP key that is going to be used in transmissions. By default, WEP is disabled and no keys are configured.

• Click **Next>** to continue.

## **Set Country/Region**

EasyLAN Network Setup - Regional/Country Settings	
Select the country or region where the printer is located.	
Country/Region Set Country/Region Country/Region: USA (FCC)	
Help         Cancel         < Back         Next >         Upload	

• The presently set Country/Region is shown. Click Next> to acknowledge and go on.

• To change the country or region so it corresponds to where the printer is located, check the Set Country/Region box and select the desired Country/Region in the drop-down list box. Enter the secret unlock code (authorized personnel only) and click **Next>**.



The EasyLAN Wireless radio module is country/region specific and must be set for the correct country/region. Use in any other region may violate applicable law.

EasyLAN Network Setup - Regional/Country Settings	
Select the country or region where the printer is located.	
Country/Region ✓ Set Country/Region Country/Region: <u>EU (ETSI)</u> Unlock code:	
Help         Cancel         < Back         Next >         Upload	

### **Set IP Parameters**

• Next screen helps you to set the IP parameters for the printer.

EasyLAN Network Setup - IP Addr	ess
Set the basic IP configuration.	
<ul> <li>Obtain an IP A</li> </ul>	ddress automatically
C. Cat ID Address	es anu allu
C Secie Address	manualiy
IP Address:	0.0.0.0
Network Mask:	0.0.0.0
Default Router:	0.0.0.0
Name server:	0.0.0.0
Help Cancel	< Back Next > Upload

• You can either obtain an IP address automatically, provided the server supports DHCP (Dynamic Host Configuration Protocol) and/or BOOTP (Bootstrap Protocol), or you can specify the IP Address, Network Mask, Default Router, and Name Server manually. Then click the **Next>** button.

### **Review Settings**

• Now, all settings are shown so they can be reviewed before starting the upload.

EasyLAN Network Setup - I	Review	
Review the values that will be s you want to change anything p Wizard will check if the printer h	set. Press Upload to upload the configuration. If ress Back. If Verify Connection is selected the nas a valid IP configuration.	
****SSID**** SSID: ***/WEP*** WEP: Wep key 1: Wep key 2: Wep key 3: Wep key 4: Active key: ***Country/Region*** Country/Region: ***TCP/IP***	INTERMEC Enabled myKey MyLongWepKey2 MyLongWepKey1 abloy Wep key 1 USA (FCC)	
Verify Connection		
Help	Cancel < Back Mext >	Upload

• If you are satisfied, click the **Upload** button to start the uploading to the printer. If not, use the **<Back** button to return to the appropriate screen where you can do the desired changes. Then click the **Next>** button until this screen appears, check the settings again, and click the **Upload** button to start the uploading.

By clicking the Verify Connection box, you can make the wizard check if the printer has a valid IP configuration.

## **Upload Configuration to Printer**

• A screen shows the progress up the upload. Each task is uploaded separately. When a task has been successfully completed, the wizard continues with next task.

If a task fails, the uploading stops and the error is reported. In this case you can either use the **<Back** button to return to the appropriate screen and make corrections or use the **Cancel** button to exit.

The "Verifying Connection" is only performed if the **Verify Connection** box in the previous screen is checked.

EasyL	EasyLAN Network Setup - Uploading				
The V	The Wizard is uploading the new settings.				
	Task	Status			
	Uploading Wireless Settings Uploading IP Settings Verifying connection	Completed Completed In progress (5 %)			
н	elp Cancel	< <u>B</u> ack <u>N</u> ext >	Upload		

• When all tasks have been successfully completed, the wizard automatically shows the screen illustrated on the next page.

### **Finish the Configuration**

The Wizard has successfully uploaded the new settings. Press Exit to end the wizard or press Run Again to configure another printer.
Run the wizard again and keep the previously entered
values.
Save the configuration on a Compact Flash using a Save to card
Print a report with all settings. Print Report
Start default web browser and try to connect to printer Web page
Help     Cancel     < Back     Next >     Finish

- Before you finish, you have the opportunity to:
  - Run the wizard again with previously entered values,
  - Save the configuration on a CompactFlash memory card in the printer. This option is disabled if the "Set IP Address manually" option is selected. Saving on the PC or saving of multiple configuration files on the same CompactFlash card is not possible.

The CompactFlash card must be inserted in the printer and the printer should be rebooted before you run this tool. Else, the printer will reboot automatically.

During saving, two screens are shown consecutively (see next page).

- Print a report will all settings, optionally with secret information, such as WEP keys, in clear text.
- Start the default web browser and try to connect to the printer's home page.
- Finally exit and close the EasyLAN Network Setup wizard by clicking the **Finish** button.

## **Saving Configuration to CompactFlash**

• These two screen are shown consecutively when a configuration is saved on a CompactFlash memory card.

Saving configuration to card
WARNINGI The configuration saved on the card may contain sensitive information. Keep the card in a safe place.
Current action
Saving configuration to card
Cancel
Configuration saved to card
WARNINGI The configuration saved on the card may contain sensitive information. Keep the card in a safe place.
Current action
Configuration successfully saved to card

• Click on the **Closed** button, switch off the printer, and remove the card.

You can use the configuration CompactFlash card to configure or reconfigure other printers this way:

- Make sure the printer is switched off and insert the card.
- After initialization, the EasyLAN interface in the printer is automatically configured according to the settings saved on the card while the text "Configuring from Flash Card" is shown in the display window.
- Switch off the printer and remove the card.
- You can now repeat the procedure with next printer, and so on.



# Caution. The configuration on the card may contain sensitive information. Keep the card in a safe place!



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