

**Intermec**



User's Guide

**EasyLAN Network  
Setup**

Intermec Printer AB

Idrottsvägen 10

P.O. Box 123

S-431 22 Mölndal

Sweden

Service support: +46 31 869500

The information contained herein is proprietary and is provided solely for the purpose of allowing customers to operate and/or service Intermec manufactured equipment and is not to be released, reproduced, or used for any other purpose without written permission of Intermec.

Information and specifications in this manual are subject to change without notice.

© 2003 by Intermec Printer AB

All Rights Reserved

EasyCoder, EasyLAN, and Fingerprint are registered trademarks of Intermec Technologies Corp. The word Intermec and the Intermec logo are trademarks of Intermec Technologies Corp.

Microsoft is a registered trademark of Microsoft Corporation.

Windows is a trademark of Microsoft Corporation.

Wise Installation Wizard is a registered trademark of Wise Solutions, Inc.

Throughout this manual, trademarked names may be used. Rather than put a trademark (™) symbol in every occurrence of a trademarked name, we state that we are using the names only in an editorial fashion, and to the benefit of the trademark owner, with no intention of infringement.

# Contents

Introduction .....	iv
Supported Platforms	
Printer Firmware and Hardware .....	iv

## 1 Installation

Introduction.....	2
Step-by-Step Instructions .....	2

## 2 Running EasyLAN Network Setup

Starting the Wizard .....	8
Establish a Serial Communication .....	9
Log In .....	11
Use Configuration on CompactFlash .....	12
Set SSID and WEP Keys.....	12
Set Country/Region .....	14
Set IP Parameters .....	16
Review Settings .....	17
Upload Configuration to Printer .....	18
Finish the Configuration .....	19
Saving Configuration to CompactFlash.....	20

## **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.



# **1** Installation

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

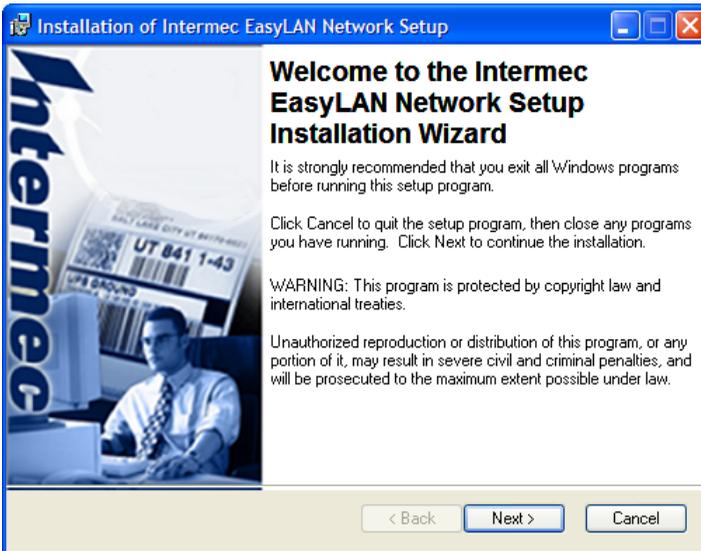
## Introduction

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.

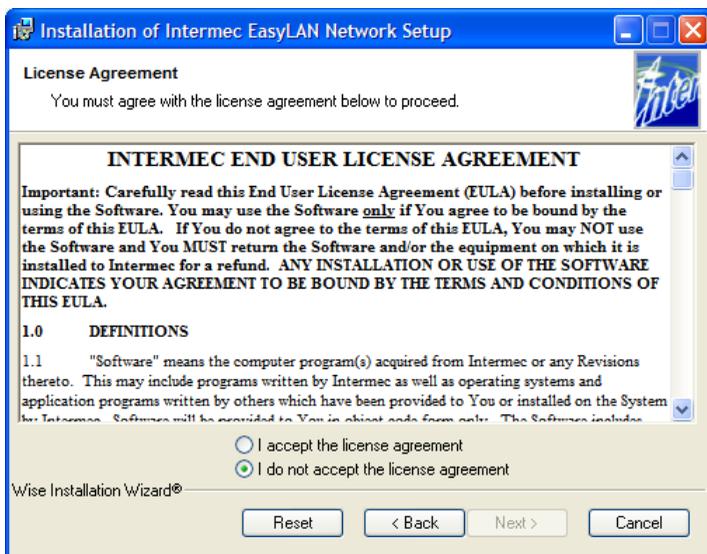
## Step-by-Step Instructions

- 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.

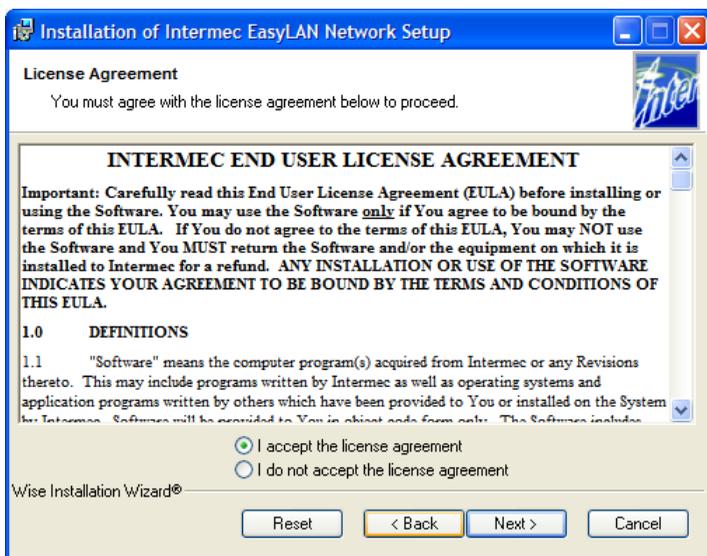


- Click **Next>** to continue.

- A License Agreement is shown. Read it carefully.



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

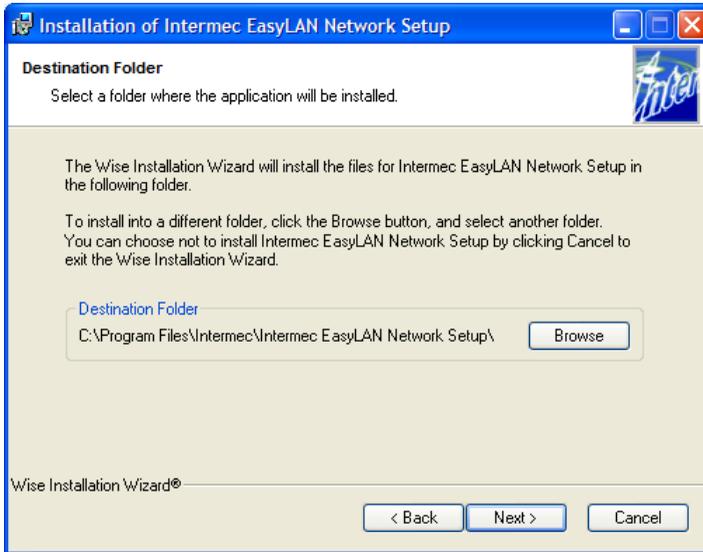


- Click **Next>** to proceed.

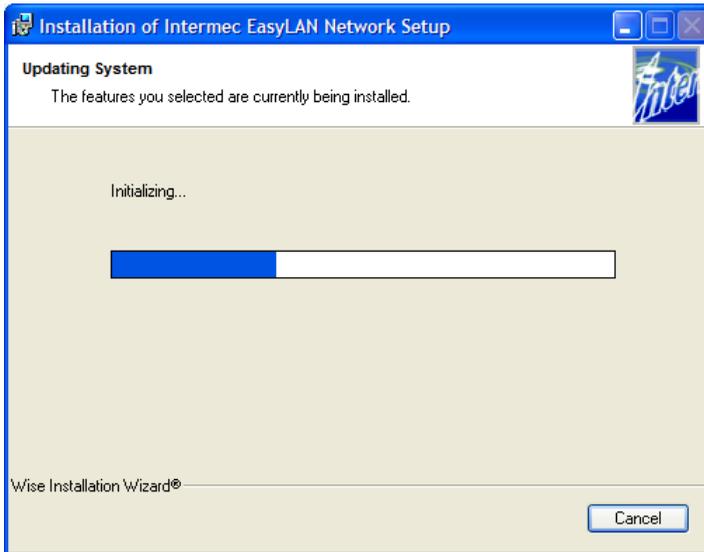
## Chapter 1—Installation

- 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.



- 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**.

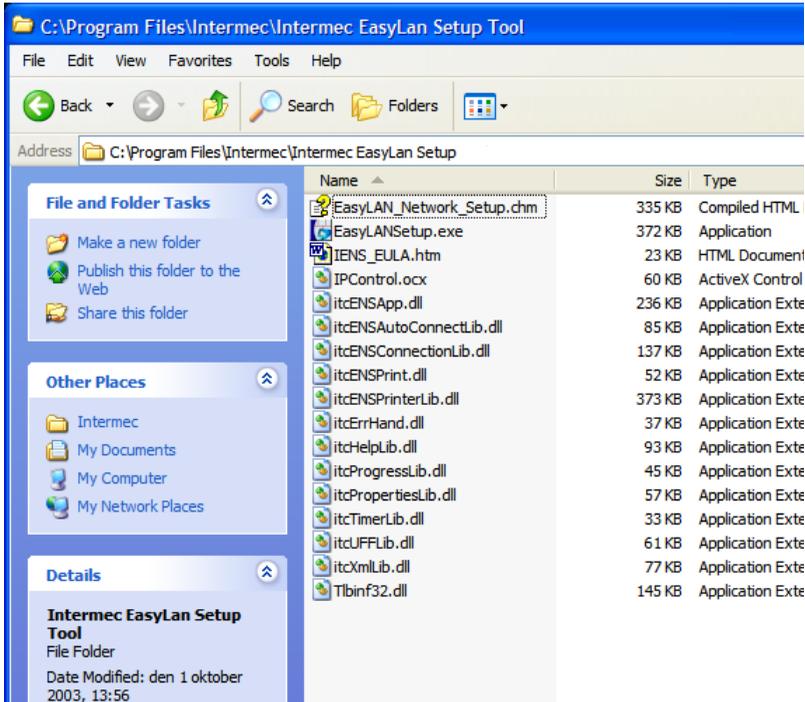


- This screen confirms that the application has been installed.



## 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.



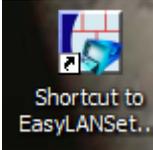


## **2 Running the EasyLAN Network Setup wizard**

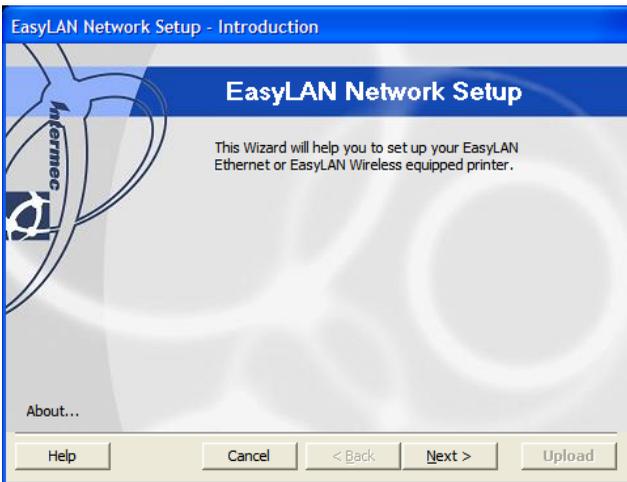
This chapter explains how to use the EasyLAN Network Setup wizard to configure the network parameters in an EasyCoder printer fitted with either an EasyLAN Ethernet interface or an EasyLAN Wireless interface.

## 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.



- 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:

Port:

Baudrate:   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>i</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:

Port:

Baudrate:   Advanced

Databits:

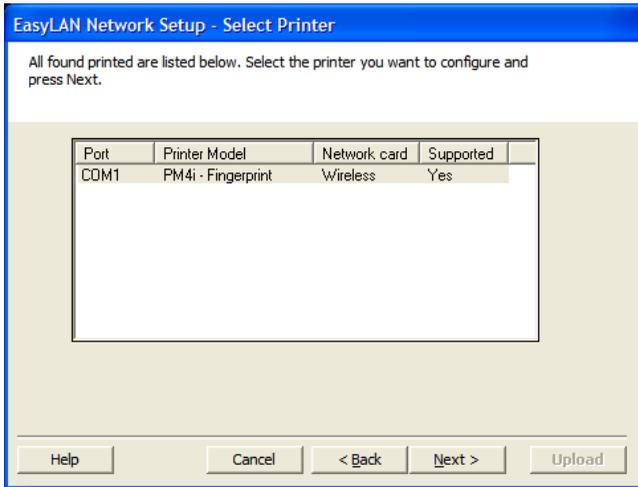
Stopbits:

Parity:

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.



- Click **Next>** to continue.

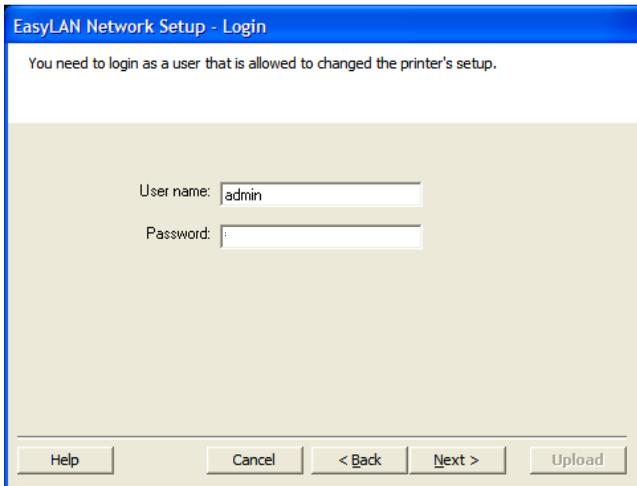
The serial communication settings of the printer are automatically changed to baud rate 115200, character length 8, and software and hardware handshaking are enabled. The communication parameters will be restored when the printer has been updated or if the wizard is closed before the update is completed.

## 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: “Set IP Parameters” (see page 16)
- EasyLAN Wireless: “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:

Password:

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>**.

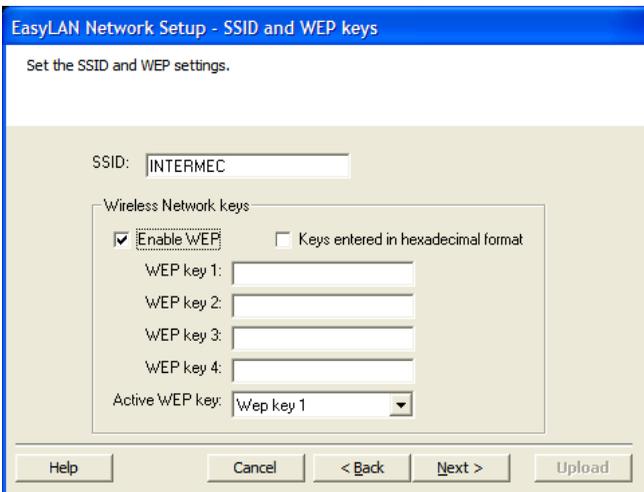
## Use Configuration on CompactFlash

- 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).

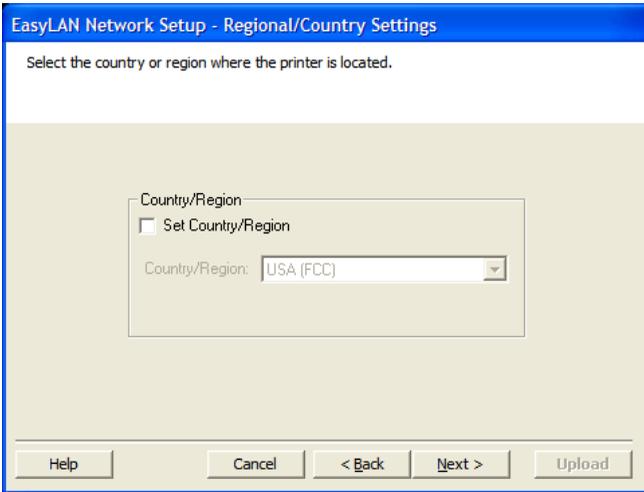


The following parameters and options are available:

- 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

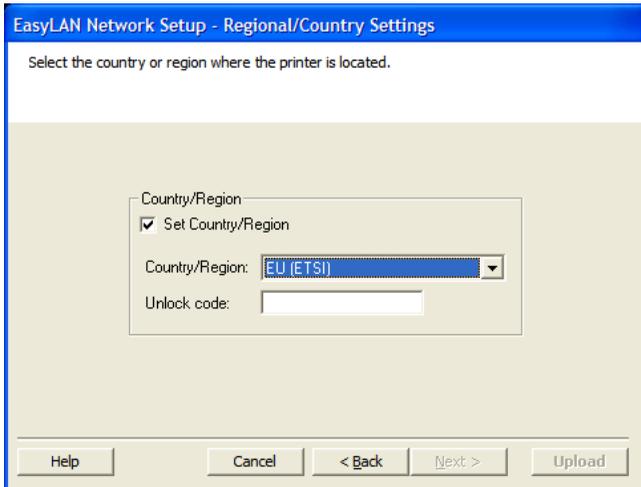


- The presently set Country/Region is shown. Click **Next>** to acknowledge and go on.

- 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.**



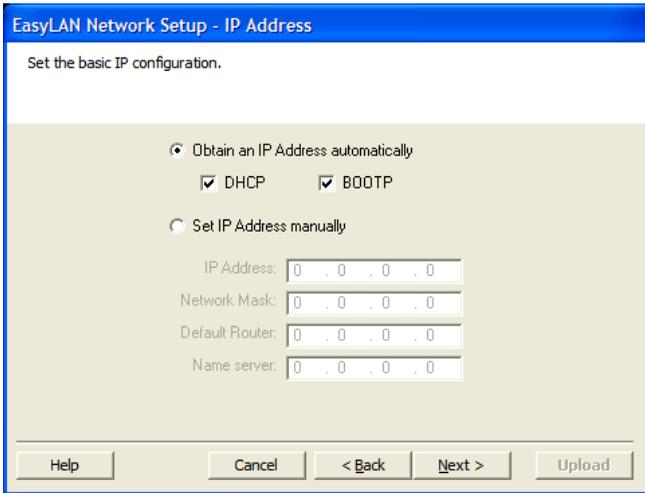
The screenshot shows a dialog box titled "EasyLAN Network Setup - Regional/Country Settings". The main text inside the dialog reads "Select the country or region where the printer is located." Below this text is a form with the following elements:

- A label "Country/Region" above a checkbox labeled "Set Country/Region", which is checked.
- A label "Country/Region:" followed by a drop-down menu currently displaying "EU (ETSI)".
- A label "Unlock code:" followed by an empty text input field.

At the bottom of the dialog, there are five buttons: "Help", "Cancel", "< Back", "Next >", and "Upload".

## Set IP Parameters

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

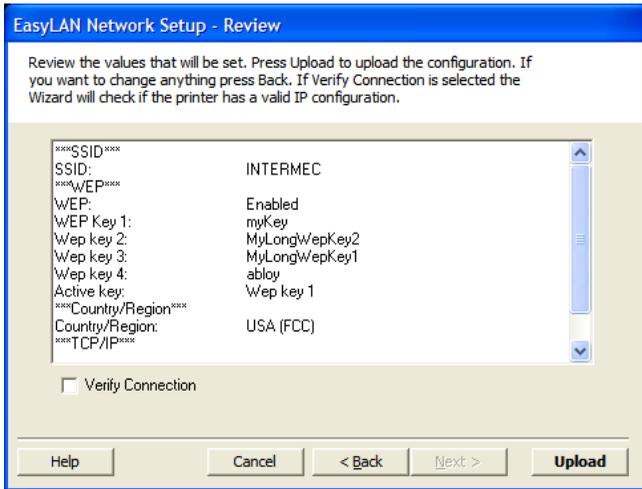


The screenshot shows a window titled "EasyLAN Network Setup - IP Address". The main text says "Set the basic IP configuration." There are two radio button options: "Obtain an IP Address automatically" (which is selected) and "Set IP Address manually". Under the automatic option, there are two checked checkboxes: "DHCP" and "BOOTP". Under the manual option, there are four input fields: "IP Address:", "Network Mask:", "Default Router:", and "Name server:", each with a text box containing "0 . 0 . 0 . 0". At the bottom, there are five buttons: "Help", "Cancel", "< Back", "Next >", and "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.



- 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.

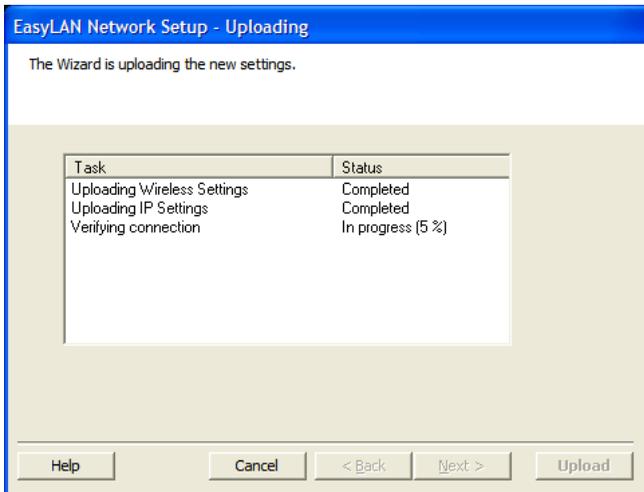
By clicking the Verify Connection box, you can make the wizard check if the printer has a valid IP configuration.

## 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.

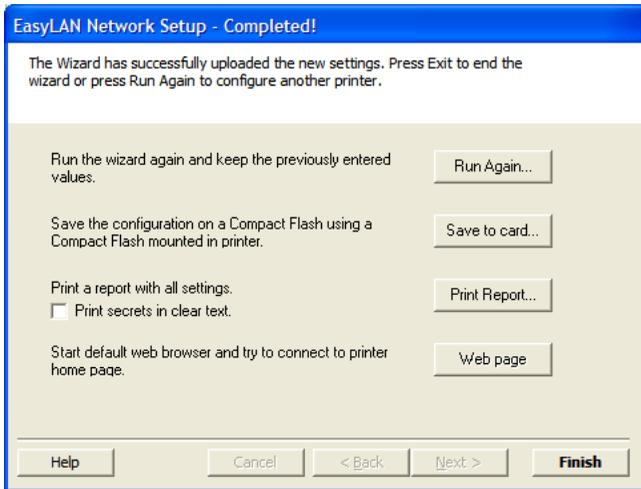
If a task fails, the uploading stops and the error is reported. In this case you can either use the **<Back** button to return to the appropriate screen and make corrections or use the **Cancel** button to exit.

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



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

## Finish the Configuration



- 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 screens are shown consecutively when a configuration is saved on a CompactFlash memory 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!





**Intermec Printer AB**

Idrottsvägen 10, P.O. Box 123  
S-431 22 Mölndal, Sweden

**tel** +46 31 869500

**fax** +46 31 869595

[www.intermec.com](http://www.intermec.com)

EasyLAN Network Setup, User's Guide



\*1-960611-00\*