IP Address Assignment Using Primary Setup Tool (PST)

Electrical Lean Switch

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http://support.automation.siemens.com/WW/view/en/50114419

Question

How do you assign the IP address to an Electrical Lean Switch using the Primary Setup Tool (PST)?

Answer

The instructions and notes listed in this document provide a detailed answer to this question.

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1 Introduction

This manual helps you install the Primary Setup Tool (PST) and assign the IP address for an ELS (Electrical Lean Switch).

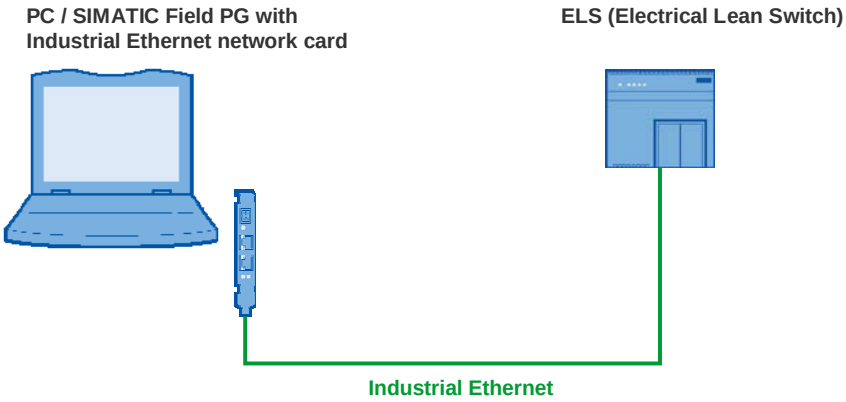
This document contains

- An overview of the plant configuration.
- Information about installing and configuring an ELS.

2 Overview of the Sample Program

Plant Configuration

Figure 2-1



In this example the PC is connected to an ELS via a network card (CP1613, for example) and an Industrial Ethernet cable.

3 Plant Configuration

This chapter gives you an overview of the configuration and the hardware and software components used to create the sample program.

3.1 Overview

Table 3-1 gives an overview of the configuration used to create the sample program.

Table 3-1

Bus system	Industrial Ethernet
Communication protocol	DCL protocol
Communication partners	PC station, ELS
Communications processor	CP1613

In this example the DLC protocol is used to assign an IP address to the ELS from the PC via Industrial Ethernet.

3.2 Hardware and Software Components Used

Hardware components

The following modules were used to create the sample program.

Table 3-2

Communication partners	Module	Order number
PC	CP1613	6GK1161-3AA00
Network component	ELS TP 40M	6GK1102-6AB00
Miscellaneous	Industrial Ethernet cable or crossed Industrial Ethernet cable	

Notes

The sample project has been created with a specific hardware configuration. This must be maintained to ensure proper functioning.

If you use another network card instead of the CP1613 for the sample program, you do not need to make any changes.

Software requirements

You need the software below to make the example work.

- Microsoft Windows XP Professional SP1 or higher as operating system
- Primary Setup Tool
  http://support.automation.siemens.com/WW/view/en/19440762
- Internet browser IE 6 or higher

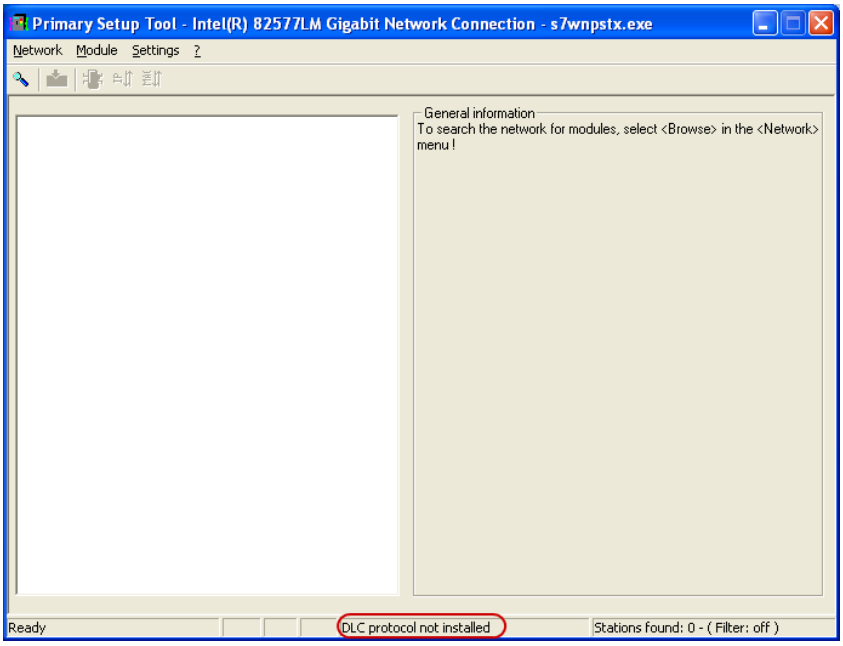
4 Installation and Configuration

This chapter describes how to install the Primary Setup Tool and how to assign the IP address for an ELS TP 40M.

You need an Industrial Ethernet cable and the Primary Setup Tool to assign the IP address for an ELS.

Follow the instructions below to install the Primary Setup Tool (PST) and assign an IP address to the ELS.

Table 4-1

Step	Description
1.	Connect the PC to the same network as the ELS TP40M with an Industrial Ethernet cable.
2.	The Primary Setup Tool is available for downloading as ZIP file at this link: http://support.automation.siemens.com/WW/view/en/19440762
3.	Unpack the ZIP file and double-click the "Setup.exe" file to start installing the Primary Setup Tool.
4.	Once the Primary Setup Tool has been successfully installed, start the program in Windows via the menu "Start → SIMATIC → Primary Setup Tool".
5.	The first time you start the Primary Setup Tool you are queried about the current language setting. Select your language.
6.	The Primary Setup Tool uses the DCP (Discovery Control Protocol) and DLC (Data Link Control) protocols for communication with the modules. If the "DLC protocol not installed" message is displayed, double-click the message and follow the instructions to install the DLC protocol.  **Note** More information about installing and operating the SIMATIC NET Primary Setup Tool and about installing the DLC protocol is available in the "PH_Primary-Setup-Tool_0.pdf" specifications.
7.	Via the "Settings → Network Card" menu you select the network card via which the PC is connected to the network and to the ELS.
8.	Select the "Network → Browse" menu.

Step	Description
9.	All the INCs (Intelligent Network Components) found are displayed in the tree view of the Primary Setup Tool.
10.	In the tree view you select the MAC address of the ELS. **Note** The MAC address of the ELS is given on a sticker on the module.
11.	Select the Detail View of the Primary Setup Tool enter a valid IP address for the ELS.
12.	The IP address is assigned to the ELS via the "Module → Download" menu.
13.	Now select the "Network → Browse" menu once again to update the display.