

Application Note

Fatek PLC and WinProLadder



This document guides you through the setup of proprietary vendor specific software installed on your PC. Your supervisor may provide you with additional or alternative instructions.

The document consists of standard instructions that may not fit your particular solution. Please visit our support website for latest revisions of documentation and firmware:

<http://www.secomea.com>

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Prerequisites for This Guide

The following guide will assist you to setup a remote and online connection to the Fatek equipment placed on the customer site using your WinProLadder programming software.

This guide concentrates on the Fatek FBS 10MAu PLC with Ethernet, but may also work with other Ethernet enabled Fatek PLCs.

Prerequisites for this guide are:

- You have an operational LinkManager installed on your PC with a LinkManager certificate that allows you to connect to the SiteManager agents.
- You have the Fatek PLC and the WinProLadder software installed.
- You have the Fatek / Ethernet device agent installed and configured on the SiteManager at the remote site, and there is access between the SiteManager and the PLC.

If this is not the case, we kindly ask you to contact the person / department responsible within your own company or at the company responsible hereof.

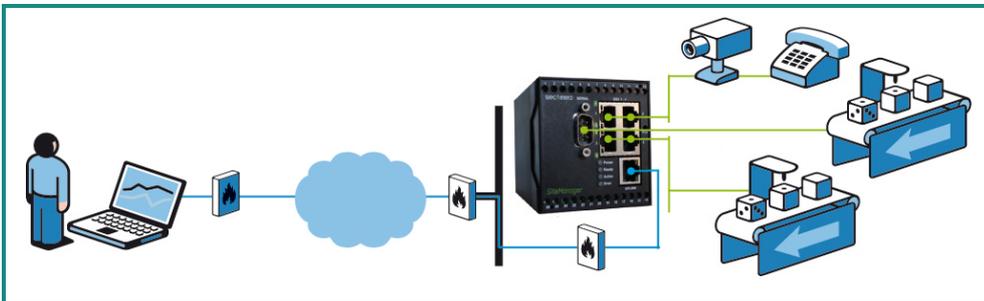
System Overview

The communication path is as follows:

WinProLadder → **LinkManager** → GateManager → SiteManager → PLC.

This guide will elaborate on the components marked with **bold**.

The following system overview depicts a SiteManager 3134 at the customer location.

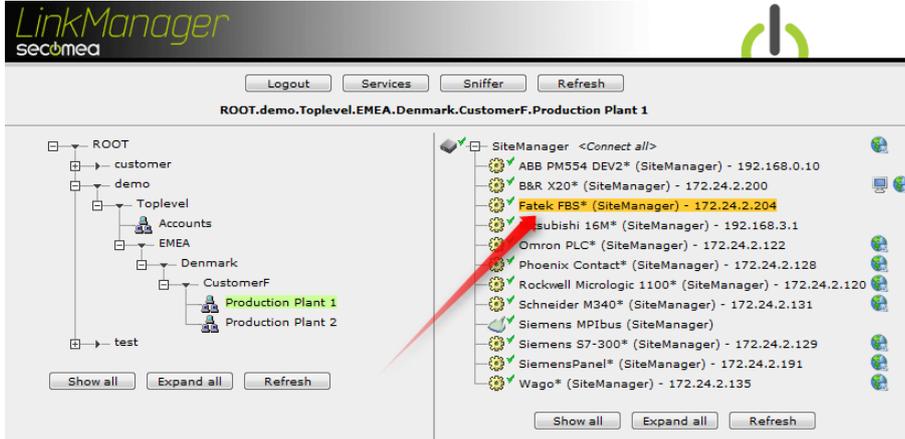


The procedures in the following apply to any SiteManager model.

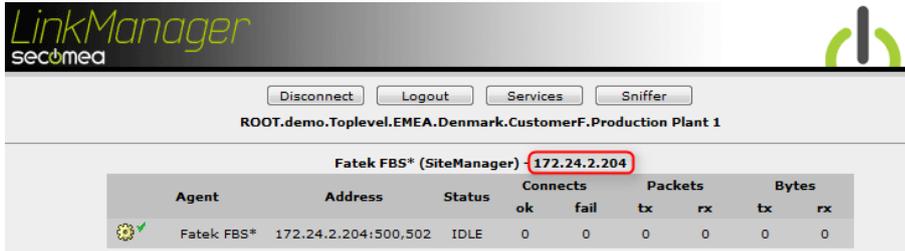
1. Ethernet Connection

The following describes how to connect with WinProLadder to a Fatek PLC equipped with an Ethernet module that is attached to a SiteManager via Ethernet (directly or via an Ethernet switch).

1. Login with your LinkManager and locate the agent that represents your TCPI/IP attached PLC. Click the text (that turns orange at mouse over) to connect to the PLC.



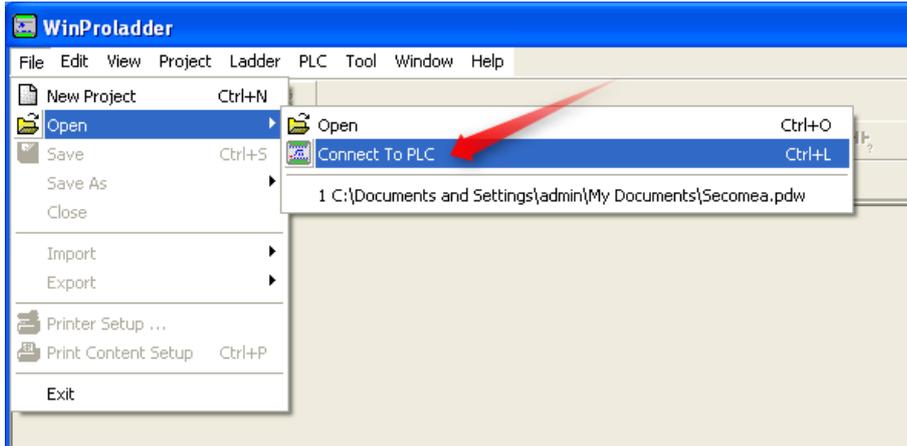
2. You will not see any activity on it yet. This only starts when you connect to the PLC via your project (Make a note of the IP address of the PLC):



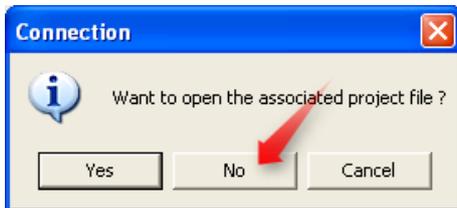
Hint: You are in principle now connected to the PLC, and you could make a ping to the PLC IP address.

3. Start WinProLadder and communicate on the IP address as you would normally have done if you were sitting in the local network with the PLC. The following illustrates how to upload the project from the PLC:

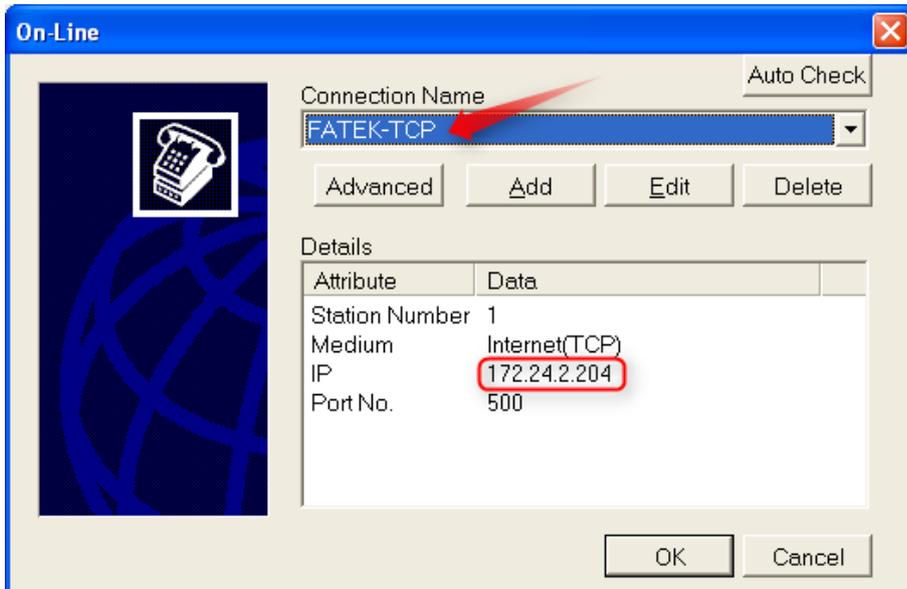
4. Select File → Open → Connect To PLC



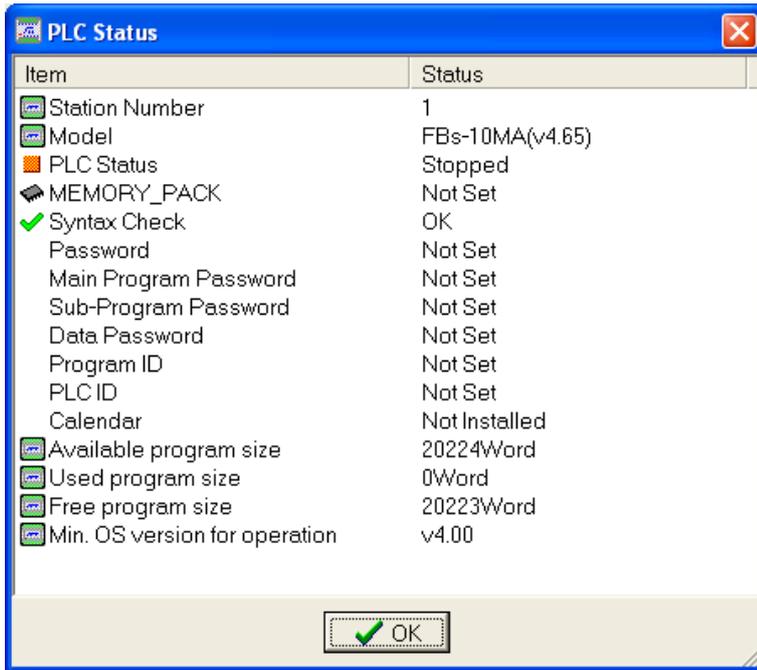
5. Answer NO, to open associated project file.



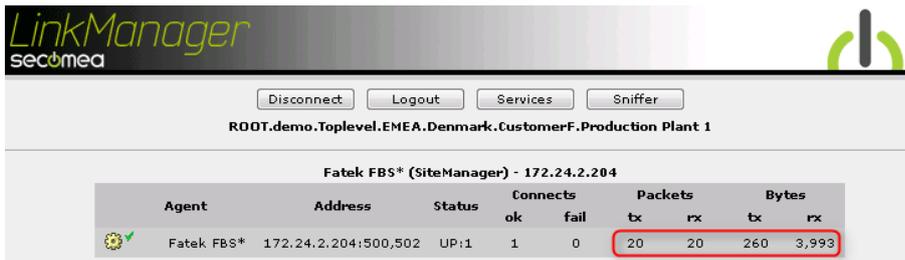
6. Set you On-Line settings to TCP and the IP address to match the one shown in the LinkManager.



- The project successfully uploaded from the PLC if you see the following screen:



- You can now also observe data traffic in the LinkManager:



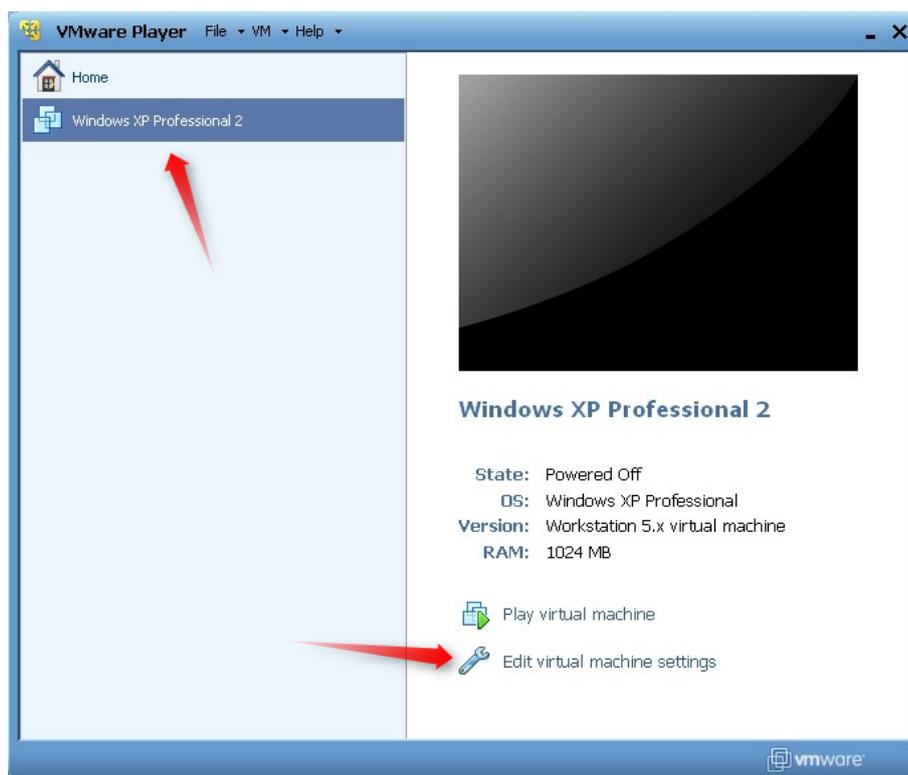
2. Ethernet connection via WindowsXP under VMWare

You can run the WinProLadder software inside a VMWare engine, to a Fatek PLC that is Ethernet attached to a SiteManager.

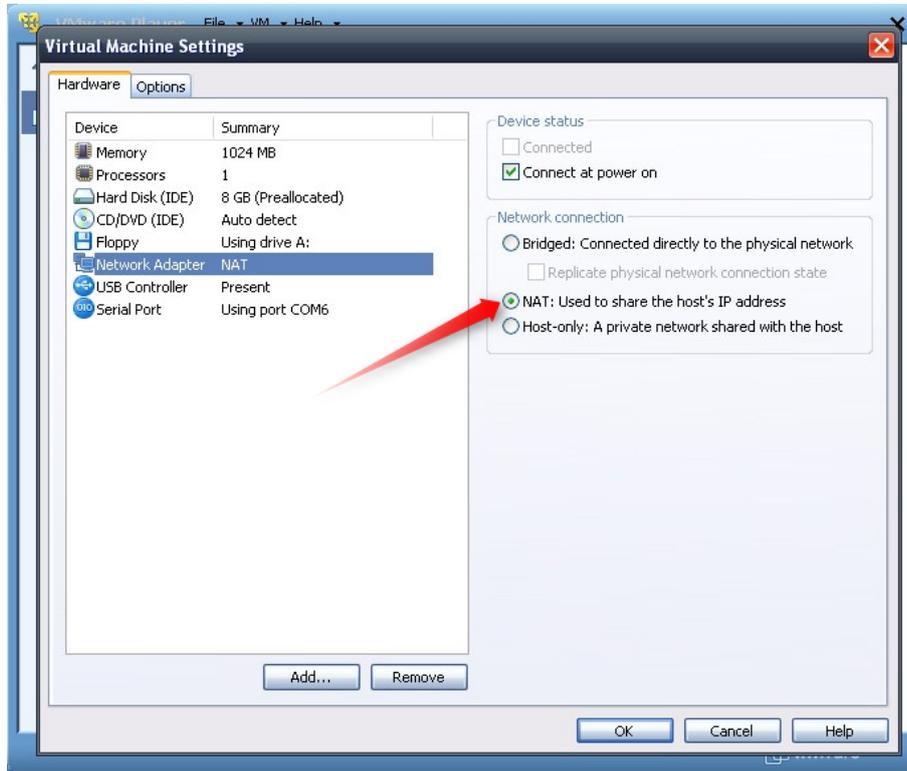
Note: LinkManager must be installed on the hosting machine, and NOT inside the VMWare Windows XP image. LinkManager cannot run inside a VMWare virtual machine.

The following illustrates VMWare Player, which can be downloaded from <http://www.vmware.com/support/product-support/player/>

1. Locate your WindowsXP that has WinProLadder installed, and enter **Edit virtual machine settings**.



2. Make sure the Network Adapter settings is set to **NAT**:



3. Start the VMWare engine and on the host PC start LinkManager.
4. Follow the procedure of section 1. **TCP Ethernet Access** to get access to the PLC via LinkManager

Appendix B, About the Fatek Ethernet Adaptor Configuration utility

The Fatek Ethernet Adaptor Configuration utility uses UDP broad cast to discover Fatek PLCs in the local network, when configured to “Intranet” as Configuration Channel. LinkManager does not support UDP broad casts, and the utility will therefore not be able to discover Fatek PLCs via the LinkManager.

You will, however, be able to use “Internet” as Configuration Channel, provided that you have made an agent in the SiteManager that defines UDP port 111

The agent in the SiteManager should be of type **Custom / Device** and state `udp=111` as service:

IDLE	<input type="checkbox"/>	#74	Fatek 111	Custom	Device	172.24.2.204 udp=111		
UP:1	<input type="checkbox"/>	#73	Fatek FBS*	Fatek Automation	Ethernet	172.24.2.204		

Connect with LinkManager to the agent:

The screenshot shows the LinkManager interface with the following details:

- Buttons: Disconnect, Logout, Services, Sniffer
- Location: ROOT.demo.Toplevel.EMEA.Denmark.CustomerF.Production Plant 1
- Agent: Fatek 111 (SiteManager) - 172.24.2.204
- Table:

Agent	Address	Status	Connects		Packets		Bytes		
			ok	fail	tx	rx	tx	rx	
	Fatek 111	172.24.2.204:111 (udp)	IDLE	0	0	0	0	0	0

You can now start locate the PLC via LinkManager using the Ethernet Adaptor Configuration utility, and click on the PLC to configure the properties:

The screenshot shows the Ethernet adaptor Configuration utility interface with the following details:

- Configuration Channel: Intranet Internet RS232
- Remote IP: 172.24.2.204
- Table:

IP Address/Name	Ethernet Address	OP Mode	Comment	Seq.
172.24.2.204 <FatekWall>	4c:49:0:0:23:de	Server	Fatek Unit in Secomea	1

Buttons: Properties..., Get Map, Exit

NOTE: UDP port 111 will be included in a future release of the standard Fatek agent (newer than version 4.4.0.11122) and subsequently you will not have to define a Custom agent for UDP 111.

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Secomea A/S
Denmark

CVR No. DK 31 36 60 38

E-mail: sales@secomea.com
www.secomea.com