

# Chapter 1

## Overview

### 1.1 Introduction

ezVSP is the Windows application support virtual serial port which converts a data on Serial port to Ethernet without modification of software using Serial port. ezVSP also support to make 127 virtual serial port on the same time and reliable communication between Serial port and the Ethernet. ezVSP properly works with registration and works on Windows 2000/XP.

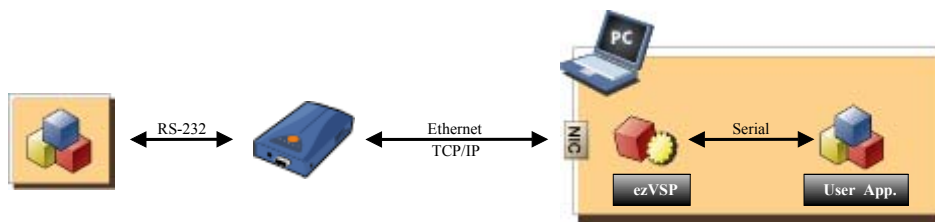


Figure 1.1 System Overview

### 1.2 Key Features

These are the key core features.

- Function
  - Support reliable data exchange by flow control.
  - Count the quantity of required and transported data.
  - Auto start when the Windows is started.
  - Auto connection when the TCP connection is disconnected.
  - Enable/disable auto connection.
- H/W and S/W Requirement
  - One network interface card.
  - Windows 2000/XP operating system.
  - 20Mbytes free HDD space.

# Chapter 2

## Installation

### 2.1 Ready to install ezVSP

- Welcome

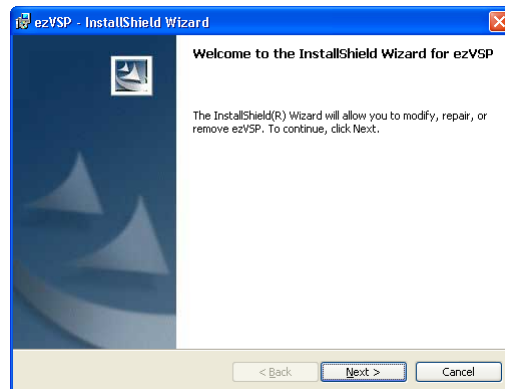


Figure 2.1.1 Welcome

- Ready to install
  - Click install button to install the program.

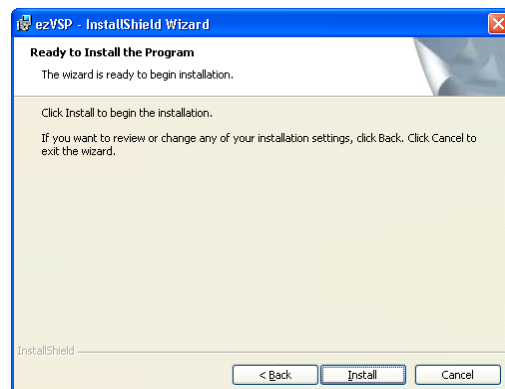


Figure 2.1.2 Ready to install program

## 2.2 Install ezVSP application

- Installing ezVSP
  - The setup program install the ezVSP.

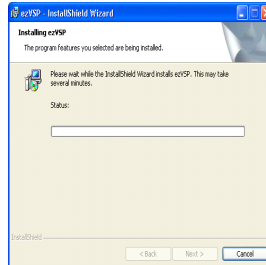


Figure 2.3.1 Installing ezVSP

- Installation completed
  - The setup program create the shortcut to ezVSP application in startup folder and sollae systems folder.

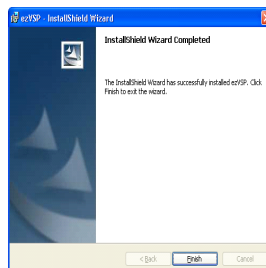


Figure 2.3.2 Installation Complete

- Registration
  - Only registrant can use ezVSP. ezVSP need right MAC address of the one of user's ezTCPs and key number based on specified MAC address. The key number is published by local distributor when the user registers ezTCP.
  - Contact local distributor to register MAC address and key number.

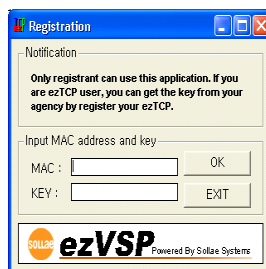


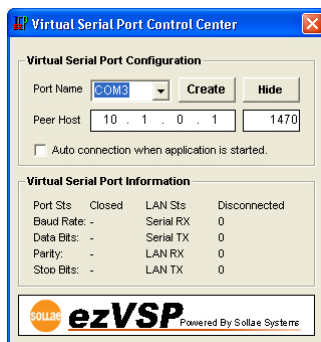
Figure 2.3.3. Registration

# Chapter 3

## Settings

### 3.1 Virtual Serial Port Control Center

- The Application



- Support the creation of port, connection to host and display status.

- Port Name



- Select the virtual port name.

- Create



- Create the specified port.

- Hide



- Hide the application. The ezVSP is running on task bar.

- Peer Host



- Input the peer IP address and TCP port that is set on ezTCP.

- Auto connect

Auto connection when application is started.

- Check the box if you want to connect automatically when ezVSP is started.

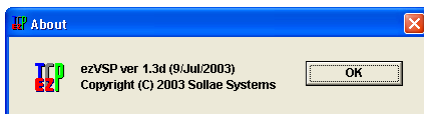
- Status

Virtual Serial Port Information			
Port Sts	Opened	LAN Sts	Connected
Baud Rate:	19200	Serial RX	65536
Data Bits:	8	Serial TX	32768
Parity:	None	LAN RX	32768
Stop Bits:	1	LAN TX	65536

- Port Sts : Display the serial port status.(Created, Opened, Closed, Deleted)
- Baud Rate : Display the opened serial baud rate (1200 ~ 115200)
- Data Bits : Display the opened serial data bits.
- Parity : Display the opened serial parity setting.
- Stop Bits : Display the opened serial stop bits.
- LAN Sts : Display the TCP connection status. (Disconnected, Connected)
- Serial RX : Display the quantity of received data from opened serial port.
- Serial TX : Display the quantity of transferred data to opened serial port.
- LAN RX : Display the quantity of received data from connected host.
- LAN TX : Display the quantity of transferred data to connected host.

## 3.2 About

- About



- The ezVSP recent version is 1.4a released on 17 October 2003.

# Chapter 4

## Messages

### 4.1 Note

- Create the virtual serial port first and then open the port.
  - If the specified port(especially COM1 and COM2) is opened when the ezVSP try to create, ezVSP have no way to know wether the port is opened or not. In this case, the ezVSP dose not work properly.
- Input valid peer IP address and port.
  - When the user try to input invalid IP address, the IP address is set as a default value.
  - The peer port must be set between 1 to 65535.

### 4.2 Error Messages

- Create fail



- If the specified port is created, ezVSP cannot create the port. This error is occurred when the user try to create the same virtual serial port using a several ezVSP application.
- Delete fail



- This error occurred if the specified port is opened when the user try to delete the port. If the user want to delete the port, the port must be disconnected before try to delete.

# Chapter 5

## Example

### 5.1 Application with EZL-200

- Abstract
  - Making that a device can communicate with PC application that use a common serial port via LAN attached to EZL-200.

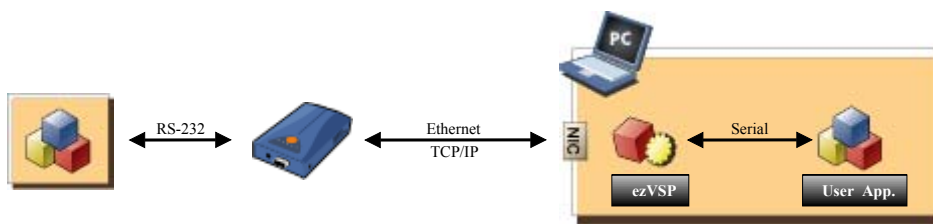
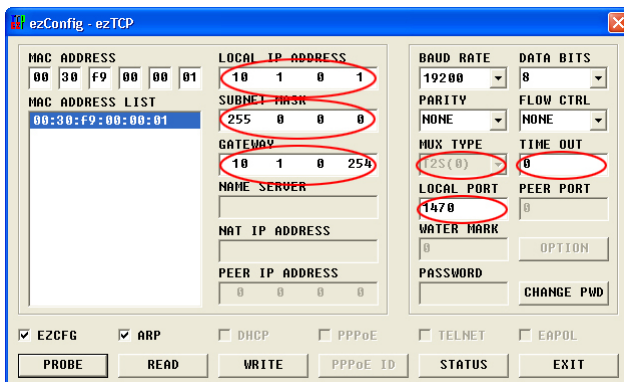


Figure 5.1.1 Application Abstract

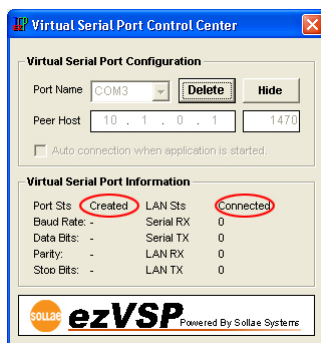
- Configure PC IP address
  - Configure the IP address of PC to same subnet with EZL-200.
  - If the user wants to use current IP address of PC, the user must configure the settings of EZL-200.

- Settings on EZL-200



- Make sure the local IP address, subnet mask and gateway address are set as a subnet of PC.
- The ezTCP must be run as TCP server mode. The MUX type should be T2S.
- Configure the local TCP listening port.
- Configure the time-out value. ("0" is recommended)

■ Settings on ezVSP



- Input the IP addresss and TCP port number of EZL-200.
- Clicks the "CREATE" button.
- Port create message and LAN connected message are display.
- If the serial application opens the specified port, the port information is display on "Virtual Serial Port Information".
- ezVSP is ready to transport data.

# Chapter 6

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