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.

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

![Welcome](image1.png)

Figure 2.1.1 Welcome

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

![Ready to install](image2.png)

Figure 2.1.2 Ready to install program
2.2 Install ezVSP application

- Installing ezVSP
  - The setup program install the ezVSP.

  ![Image of Installing ezVSP](image1)
  Figure 2.3.1 Installing ezVSP

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

  ![Image of Installation Complete](image2)
  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.

  ![Image of Registration](image3)
  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**
  - Check the box if you want to connect automatically when ezVSP is started.

- **Status**
  - 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 whether 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.

- **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 address 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

License

6.1 License for use and distribution

- This software is shareware. This means:
  - All copyrights to THIS SOFTWARE are exclusively owned by the Sollae Systems.
  - Only certified user can use this software. The period of use is not restricted.
  - Once registered, the user is granted a non-exclusive license to use software on one computer, for any legal purpose, at a time. The registered software may not be rented or leased, but may be permanently transferred, if the person receiving it agrees to terms of this license. If the software is an update, the transfer must include the update and all previous versions.
  - THIS SOFTWARE IS DISTRIBUTED "AS IS". NO WARRANTY OF ANY KIND IS EXPRESSED OR IMPLIED. YOU USE AT YOUR OWN RISK. THE AUTHOR WILL NOT BE LIABLE FOR DATA LOSS, DAMAGES, LOSS OF PROFITS OR ANY OTHER KIND OF LOSS WHILE USING OR MISUSING THIS SOFTWARE.
  - You may not use, copy, emulate, clone, rent, lease, sell, modify, decompile, disassemble, otherwise reverse engineer, or transfer the licensed program, or any subset of the licensed program, except as provided for in this agreement. Any such unauthorized use shall result in immediate and automatic termination of this license and may result in criminal and/or civil prosecution. All rights not expressly granted here are reserved by Sollae Systems.
  - Installing and using THIS SOFTWARE signifies acceptance of these terms and conditions of the license.
  - If you do not agree with the terms of this license you must remove files of THIS SOFTWARE from your storage devices and cease to use the product.