ezVSP User's Manual

(Version 2.1d)



sollae Systems Co., Ltd.

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Overview

1.1 Introduction

- ezVSP, which is a program playing the same role as ezTCP/LAN in PC, provides data communication between serial port and Ethernet (TCP/IP). With the help of ezVSP you can exchange data between Ethernet and your serial port without modifying standard communication programs on your PC.
- With ezVSP you can create as many virtual serial ports as needed.
- The ezVSP program is provided for user who uses ezTCP/LAN and you should enter the key value when you run the ezVSP program for the first time. You can get a key from Sollae Systems homepage at http://www.eztcp.com/en/Support/req reg.php.
- In order to get a key, you have to register your ezTCP/LAN product. If you have many ezTCP/LAN, it is enough to register only one.
- ezVSP is designed for Windows 2000/XP.
- ezVSP program is subject to change without prior notice. You can always check for the last ezVSP version at http://www.eztcp.com/en/Support/support.php.

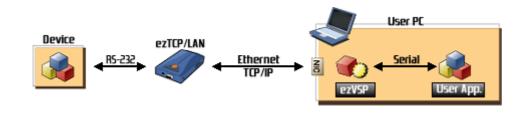


Figure 1.1 System Overview

1.2 Key Features

- Function
 - ezVSP is started automatically at Windows 2000/XP startup.
 - ezVSP supports TCP server, TCP client and UDP.
 - ezVSP supports SSL v3.0 and TLS v1.0 (in case of TCP Server and TCP Client).
 - ezVSP can create several virtual serial ports.
- H/W and S/W Requirement
 - Windows 2000/XP
 - At least 20Mbytes of disk space

Installation

2.1 Ready to install ezVSP

Welcome

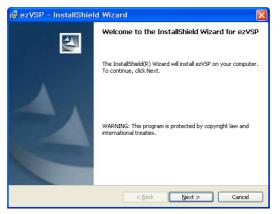


Figure 2.1.1 InstallShield Wizard. Welcome Screen

- License Agreement
 - To install ezVSP you must accept the terms of the license agreement.



Figure 2.1.2 InstallShield Wizard.License Agreement

Customer Information

Please enter your information.		
User Name:		
hjkim		
Organization:		
sollae		
Install this application for:	(all users)	

Figure 2.1.3 InstallShield Wizard. Customer Information

• Setup Type

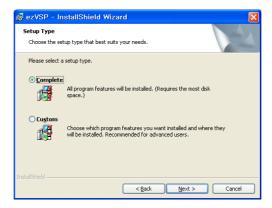


Figure 2.1.4 InstallShield Wizard. Setup Type

- Ready to install
 - Click Install to begin ezVSP installation.

🔂 ezVSP - InstallShield Wizard
Ready to Install the Program The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back Install Cancel

Figure 2.1.5 InstallShield Wizard. Ready to install

2.2 Install ezVSP application

- Installing ezVSP
 - Setup installs ezVSP.

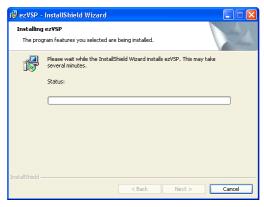


Figure 2.2.1 Installing ezVSP

- Installation completed
 - ezVSP Setup creates "C:\Program Files\SollaeSystems\ezVSP" folder and Go to ezVSP shortcut in Windows Start menu.



Figure 2.2.2 InstallShield Wizard. Installation Complete

- Registration
 - When you start ezVSP for the first time, you must supply the registration key.
 - You can get the key from Sollae Systems homepage. To get a key you must register a MAC address of any of your ezTCP/LAN products.
 - You can use the same MAC address and key value for ezVSP running on several PCs.

 Click Link in the registration window or visit our homepage support page http://www.eztcp.com/en/Support/req_reg.php

lf you ar site by r Please j	istrant can use this a e ezTCP user, you ca egister your ezTCP. ust click below link. 1	an get the key from our web
MAC :	C address and key—	ОК
KEY:		Cancel

Figure 2.2.3. Registration

Settings

3.1 Virtual Serial Port Control Center

Port	Port Comments	Port State	Port Config	MODE	Network State	PEER	LOC	
COM4 TCP Client		INIT	-	TCP Client	Not Connected	10.1.0.152:	-	
СОМ2	TCP Server	INIT	-	TCP Ser	Not Connected	-	1470	
COM6	UDP	INIT	-	UDP	Not Connected	10.1.0.152:	1472	
souae 👝	zVSP	CREATE VSP	START	ALL CHECKED	VSP F	Reset Virtual Seria	l Bus	
	ered By Sollae Systems	CONFIGURE VSP	STOP	LL CHECKED	VSP	EXIT		

The Application

Figure 3.1.1. Main Window

- 3.1.1 CREATE Virtual Serial Port.
 - Create environment variables to run virtual serial ports.
 - Set up window
 - When you click **CREATE VSP**, the following dialog box appears:

₩ ezVSP	X
Virtual Serial Port Configuration COM Port COMS -	
☐ Auto start when application is started ☐ Use SSL	
Network Mode	
Network Configuration Peer IP 0 . 0 . 0 . 0 Peer Port 1470	-
Local Port 1470	
Etc. Comments	
OK Cancel	

Figure 3.1.2. Set up Window

• COM Port

```
COM Port COM5 -
```

- Choose a COM port to be used as virtual serial port.
- Option

Auto start when application is started

- When you select this option, virtual serial port is automatically created and enabled when ezVSP starts.
- 🗆 Use SSL
- When you select this option, SSL (Secure Server Layer) will be used for the specified virtual serial port for data communication over Ethernet (TCP/IP).
- SSL v3.0 and TLS v1.0 are supported.
- Network Mode

```
© TCP Client © TCP Server © UDP
```

- Select Ethernet data communication mode. Available options include TCP Client, TCP Server, and UDP.
- SSL (Secure Server Layer) is available only in TCP mode.
- TCP Server mode does not support multiple connections.
- Network Configuration

Network	Config	urat	tion						
Peer IP	0	·	0	•	0	•	0	Peer Port 1470	
								Local Port 1470	

- In case Network Mode is set to TCP Client, supply IP address (Peer IP)and the port number (Peer Port) of the server to be connected to ezVSP.

Network	Confi	igu	rat	ion-					
Peer IP	0		÷	0	•	0	•	0	Peer Port 1470
									Local Port 1470

- In case Network Mode is set to TCP Server, supply the port number (Local Port) for ezVSP to listen.

Network	Config	urat	tion					
Peer IP	0	•	0	•	0	•	0	Peer Port 1470
								Local Port 1470

- In case Network Mode is set to UDP, supply the IP address (Peer IP) and port number (Peer Port) of the host to which ezVSP transmits UDP packets and the port number (Local Port) for ezVSP to bind.
- Etc.

Etc.	
Comments	

- You can provide an optional comment for each virtual serial port.

Window

to start all selected ports.

3.1.2 START Virtual Serial Port.

 Start virtual serial ports with environment variables you have created (See 3.1.1. CREATE Virtual Serial Port).

Po		Port Comments	Port State	Port Config	MODE	Network State	PEER	LOCAL
Po V V V	M4	TCP Client	INIT	-		Not Connected	10.1.0.152:	-
Ľ٩	M5 TCP Server M6 UDP		INIT	-	TCP Ser UDP	Not Connected Not Connected	- 10.1.0.152:	1470
	MO	UUP		-	UDP	NUTCUIMECIED	10.1.0.152	1412
SOL	e	zVSP	CREATE VSP	START A	LL CHECKED	VSP	Reset Virtual Seria	al Bus
_		ered By Sollae Systems	CONFIGURE VSP	STOP A	LL CHECKED	VSP	EXIT	
			DELETE VSP	DELETE	ALL CHECKED	VSP		
Τ	0	start a por	t, select the	e check	box 1	next to	it in t	he M

3.1.3 Status of Virtual Serial Port

and click

Port	Port Comments	Port State	Port Config	MODE	Network State	PEER	LOCAL
COM4	TCP Client	INIT	-	TCP Client	Not Connected	10.1.0.152:	-
COM5	TCP Server	INIT	-	TCP Ser	Not Connected	-	1470
ICOM6	UDP	INIT	-	UDP	Not Connected	10.1.0.152:	1472
🤐 e	zVSP	CREATE VSP	START	ALL CHECKED	VSP F	leset Virtual Seria	l Bus
Powe	ered By Sollae Systems	CONFIGURE VSP	STOP /	LL CHECKED	VSP	EXIT	
		DELETE VSP		ALL CHECKED			

- You can check the status of each virtual serial port in the Main Window.
- The meaning of each item is explained below:

Port

- The name of the COM port of virtual serial port.

Port Comments

- Optional comment for this port.

Port State

- The state of virtual serial port.

INIT	Initialized status before starting virtual serial port
CREATED	Virtual serial port is started
OPEN	Virtual serial port is started and being used by a serial communication program
CLOSE	Virtual serial port was started, but a serial communication program has stopped using it.
CREATE ERROR	An error was detected when starting virtual serial port.
ERROR	Virtual serial port was started and an error was detected when used by a serial communication program.

Port Config

- Port settings of serial communication program which uses this virtual serial port.
- In OPEN state, a virtual serial port configured as 19200bps, No parity, 8bits data, 1 stop bit is displayed as follows:

Port	Port Comments	Port State	Port Config	MODE	Network State	PEER	LOCAL
COM4	TCP Server	OPEN	19200-8-None-1	TCP Ser	Listen	-	1470

MODE

- Network Mode used for this virtual serial port.

Network State

- TCP/IP network state.

Not Connected	TCP/IP network is not connected.
Connected	TCP/IP network is connected.
Error	An error was detected during TCP/IP connection or data communication.
Connecting	TCP/IP network is being connected. (Only TCP Client mode).
SSL Connecting	TCP/IP network is being connected using SSL. (Only TCP Client mode with enabled SSL)
Listen	Waiting for TCP/IP connection. (Only TCP Server mode)
Bind	Normal bind state (Only UDP mode).

PEER

- IP address and port number of the connected server (TCP Client mode).

LOCAL

- Local port number for Listen or Bind (TCP Server or UDP mode).

3.1.4 Data Statistic

• You can check the statistics of data exchanged through virtual serial port.

ł	ezVSP 2.0	h (13/May/2005)						
	Сом4	TCP Client	INIT	-	TCP Client	Not Connected	10.1.0.152:	-
	Сомб		INIT	2)]	UDP 0 byte 0 byte		10.1.0.152:	1472
		EVSP ed By Sollae Systeme	CREATE VSP CONFIGURE VSP DELETE VSP	STOP ALL	L CHECKED	/SP	Reset Virtual Seri EXIT	al Bus

 Double-click the virtual serial port for which you want to check statistics. The dialog box shown in the figure above is displayed.

RX (Serial -> VSP)	The amount of data sent from RS-232 communication program to ezVSP through the selected virtual serial port.
TX (LAN -> VSP)	The amount of data sent from TCP/IP communication program or equipment to ezVSP through the selected virtual serial port.

3.1.5 Stop Virtual Serial Port

- This function is used to stop an opened virtual serial port.
- You cannot change settings of an opened virtual serial port.
- If you want to change settings of a virtual serial port, you should stop it first.
- If an RS-232 communication program is using the selected virtual serial port, you should close the virtual serial port before stopping.

		Port Comments	Port State	Port Config	MODE	Network State	PEER	LOCAL
1	0M4	TCP Client	INIT	—	TCP Client	Not Connected	10.1.0.152:	-
222	DM5	TCP Server	INIT	-	TCP Ser	Not Connected	-	1470
1	DM6	UDP	INIT	-	UDP	Not Connected	10.1.0.152:	1472
SOL	• e	zVSP	CREATE VSP				Reset Virtual Seria	al Bus
		red By Sollae Systems	CONFIGURE VSP	STOP 4	ALL CHECKED	VSP	EXIT	
			DELETE VSP		ALL CHECKLE			

 Select the check box next to virtual serial ports you want to stop in the Main Window and click **STOP ALL CHECKED VSP** to stop all the selected ports.

3.1.6 Configure Virtual Serial Port

- This function is used to change settings for a virtual serial port.
- You cannot change settings for an opened virtual serial port .

Port	Port Comments	Port State	Port Config	MODE	Network State	PEER	LOCAL
COM4	TCP Client	INIT	-	TCP Client	Not Connected	10.1.0.152:	-
COM5	TCP Server	INIT	-	TCP Ser	Not Connected	-	1470
COM6	UDP	INIT	-	UDP	Not Connected	10.1.0.152:	1472
			1		1		
	zVSP		START /	ALL CHECKED	VSP	Reset Virtual Seria	al Bus
Powe	red By Sollae Systems	CONFIGURE VSP	STOP A	LL CHECKED	VSP	EXIT	
		DELETE VSP	DELETE	ALL CHECKED	Ven		

 Select a virtual serial port for which you want to change settings in the main window and click **CONFIGURE VSP**. The following dialog box is displayed:

🔐 ezVSP 🛛 🗙
Virtual Serial Port Configuration COM Port COM4 💌
Option
☐ Auto start when application is started ☐ Use SSL
Network Mode
C TCP Client C TCP Server C UDP
Network Configuration
Peer IP 0 . 0 . 0 . 0 Peer Port 1470
Local Port 1470
Etc. Comments TCP Server
OK Cancel

- For explanation of items see 3.1.1. CREATE Virtual Serial Port.
- 3.1.7 Delete Virtual Serial Port
- This function is used to delete a virtual serial port.
- You cannot delete an opened virtual serial port.

COM4	TCP Client	Port State	Port Config	TCP Client	Network State Not Connected	PEER 10.1.0.152:	
COM5	TCP Server	INIT	-	TCP Ser	Not Connected	-	1470
COMB						10.1.0.152	
	zVSP	CREATE VSP	START A	ALL CHECKED	VSP	Reset Virtual Seria	al Bus
	rred By Sollae Systems	DELETE VSP		LL CHECKED		EXIT	
Sele	ect a virtual	serial port	you wa	nt to c	lelete in	the Ma	ain Window

Port	Port Comments	Port State	Port Config	MODE	Network State	PEER	LOCAL
COM4	TCP Client	INIT	-	TCP Client	Not Connected	10.1.0.152:	—
COM2	TCP Server	INIT	-	TCP Ser	Not Connected	-	1470
COM6	UDP	INIT	-	UDP	Not Connected	10.1.0.152:	1472
	1/00				Von		- I
sollae 😑	zVSP	CREATE VSP	STARTA	L CHECKED	V 2P	EXI	1
Paw	ered By Sollae Systems	CONFIGURE VSP					
		DELETE VSP	DELETE A	LL CHECKED	VSP		

the Main Window and click **DELETE ALL CHECKED VSP** the selected ports.

to delete all

3.1.8 Reset Virtual Serial Bus

 The CREATE ERROR occurred when start virtual serial ports then the Reset Virtual Serial Bus program can solve that problem.

Port	Port Comments	Port State	Port Config	MODE	Network State	PEER	LOCAL
✓ COM4	TCP Client	INIT	-	TCP Client		10.1.0.152:	-
COM2	TCP Server	INIT	-	TCP Ser		-	1470
COM6	UDP	INIT	-	UDP	Not Connected	10.1.0.152:	1472
souae 👝	zVSP	CREATE VSP	START #	LL CHECKED		Reset Virtual Seria	al Bus
	red By Sollae Systems	CONFIGURE VSP	STOP A	LL CHECKED	VSP	EAH	
		DELETE VSP	DELETE	ALL CHECKEI	DVSP		



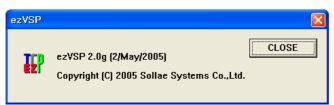
- Click Reset Virtual Serial Bus Now!
 then it will remove all virtual serial ports present int system.
- 3.1.8 Pop up menu
- Right-click a virtual serial port you want in the Main Window to display popup menu.
- With popup menu commands you can control the selected virtual serial port.

СОМ2	TCP Client TCP Server UDP	INIT	_				
		INUT		TOD Oliost	Not Connected	10.1.0.152:	-
⊡ сом6	LIDP	INIT	-	Start	Not Connected	-	1470
	001	INIT	-	Stop	Not Connected	10.1.0.152:	1472
				Delete			
				Configure			
_			1				
	VSP	CREATE VSP	START	ALL CHECKED	VSP	EXI	1
	ed By Sollae Systems						
		CONFIGURE VSP	STOP A	LL CHECKED	VSP		
		DELETE VSP		ALL CHECKED			

• Popup menu commands are described above.

3.2 About

About



- You can check the current ezVSP version.
- ezVSP program is subject to change without prior notice due to reasons of function update, bug revision, etc.
- You can download the latest ezVSP version from http://www.eztcp.com/en/Support/support.php

Messages

4.1 Note

- 4.1.1 Using Virtual Serial Port
 - To use virtual serial port, you have to create and start a specific COM port first (See 3.1.1 and 3.1.2.).
- 4.1.2 Start network connection
 - If network mode is set to to TCP Server or UDP, Listen or Bind beings after virtual serial port has started.
 - If network mode is set to TCP Client, TCP/IP connection with the peer host is established after virtual serial port has started.

4.1.3 TCP Server

• TCP server provided by ezVSP does not support multiple connections.

4.2 Error Messages



- When you install and run ezVSP for the first time, you should supply MAC address and a key for your ezTCP/LAN (See 2.2).
- If you supply an invalid MAC address, the above message is displayed.
- Supply a correct MAC address for your ezTCP/LAN.



- When you install and run ezVSP for the first time, you should supply MAC address and a key for your ezTCP/LAN (See 2.2).
- If you supply an invalid key, the above message is displayed.
- Supply a correct key value for your ezTCP/LAN.



- The above message is displayed when you try to terminate ezVSP while there is an active virtual serial port registered in the Main Window.
- You should stop all registered virtual serial ports in the Main Window before you quit ezVSP.

ezVSP	
⚠	Virtual Serial Port COM4 is used by other application
	[폭인

- This message is displayed when you try to stop virtual serial port being used by RS-232 communication program.
- You should stop using the port by RS-232 communication program before you stop virtual serial port.



- This message is displayed when you try to delete an active virtual serial port.
- You should stop the virtual serial port before you delete it.



- This message is displayed when you try to configure an active virtual serial port.
- You should stop the virtual serial port before configuring.

Example

5.1 Application with ezTCP/LAN

- Abstract
 - Install ezTCP/LAN between a PC and serial device through LAN for data communication as shown in the figure below.



Figure 5.1.1 Application Abstract

- Configure PC IP address
 - Default ezTCP settings are as follows:

Local IP Address	10.1.0.1
Subnet Mask	255.0.0.0
Gateway IP Address	0.0.0.0
Local Port	1470

- Change the IP address of your PC to match the subnet of your ezTCP/LAN.
- If you want to use the IP address of your PC, change the network configuration of your ezTCP/LAN to match the PC subnet.

ezTCP/LAN Settings

ezConfig v3.0d (8//	(pr/2005)			
MAC Address 00 30 /9 00 00 01 Search List 00:30:f9:00:00:01 00:30:f9:00:00:04 00:30:f9:00:00:05	Read Local IP Address 10 1 Subnet Mask 255 0 Gateway IP Address 0 0 Peer IP Address 0 0 Reserved	ezTCP Mode T2S(0) V Local Port 1479 Timeout 0 Conn. Byte 0 Peer Port 0 Password	Serial Type RS-232 Baudrate 19200 Parity NONE Data Bits 8 Stop Bit 1 bit Flow Control NONE VONE	WLAN Mode AD-HOC(0) V Target SSID Ad-hoc Master SSID Channel 0 V WEP No WEP(0) V WEP Key
Options DHCP ARP Comment	PPPoE ezCF(Multi Conn. V Telne		Power Down Secure	Start Option
Search ezTCP	Write PPPo	E ID Change Pv	VD Status	Exit

- Check that your network is configured for the same subnet as your PC.
- Set local TCP listening port number for ezTCP/LAN.
- ezVSP Settings

ezVSP 2.0)h (13/May/2005))			2
Port	Port Comments	iii ezVSP	ate	PEER	LOCAL
	1				LL
COM4	TCP Client	Virtual Serial Port Configuration	cted	10.1.0.152:	-
COM5	TCP Server		cted	-	1470
COM6	UDP	COM Port COM4	cted	10.1.0.152:	1472
		Option			
-					
		Auto start when application is started			
		Use SSL			
		Network Mode			
		TCP Client C TCP Server C UDP			
		- Network Configuration			
		Peer IP 10 . 1 . 0 . 1 Peer Port 1470			
		Local Port 1470			
		Etc.		1 marca	1
souae @	ZVSP	Comments TCP Client		EXI	r
	red By Sollae Systems				
1 0004	rea by bonae bysterits				
		OK Cancel			

- Supply local IP address and local port number configured for ezTCP to create virtual serial port.
- Start the created virtual serial port than TCP/IP connection is established.
- Use an RS-232 communication program to open it for a test.

ort							
]СОМ4	Port Comments TCP Client	Port State CREATED	Port Config -	MODE TCP Client	Network State Not Connected	PEER 10.1.0.1:1470	LOCAL _
iollae Powe	zVSP red By Solitae Systeme	CREATE VSP		L CHECKED		EXI	r
		DELETE VSP					
		DELETE ¥3P		LL CHECKEE	VaP		
	Term - COM4 VT						\mathbf{X}
e <u>E</u> dit	t <u>S</u> etup C <u>o</u> ntrol <u>(</u>	<u>W</u> indow <u>H</u> elp					
	Tera Term: S	erial port setup		Σ			
		dineering tere		2			_
	<u>P</u> ort:	COM4		ок			
	<u>B</u> aud rate:	19200	•				
	<u>D</u> ata:	8 bit		ancel			
	P <u>a</u> rity:	none	•				
	<u>S</u> top:	1 bit		<u>l</u> elp			
	<u>S</u> top: <u>F</u> low contro			<u>l</u> elp			
	<u>F</u> low contro	ol: none		<u>i</u> elp			
	Elow contro	ol: none					
	<u>F</u> low contro	ol: none					
	Elow contro	ol: none					
	Elow contro	ol: none					
	Elow contro	ol: none					
	Elow contro	ol: none					
zVSP 2.0	Elow contro	ol: none					
ort	Flow contro Transmi 0 h (13/May/2005) Port Comments	l: none t delay msec <u>/c</u> har 0 Port State	Port Config	MODE	Network State	PEER	LOCAL
	Flow contro Transmi 0	l: none t delay msec/ <u>c</u> har 0	▼ 上	MODE	Network State Connected	PEER 10.1.0.1:1470	LOCAL
ort	Flow contro Transmi 0 h (13/May/2005) Port Comments	l: none t delay msec <u>/c</u> har 0 Port State	Port Config	MODE			LOCAL
ort	Flow contro Transmi 0 h (13/May/2005) Port Comments	l: none t delay msec <u>/c</u> har 0 Port State	Port Config	MODE			LOCAL
ort	Flow contro Transmi 0 h (13/May/2005) Port Comments	l: none t delay msec <u>/c</u> har 0 Port State	Port Config	MODE			LOCAL
ort	Flow contro Transmi 0 h (13/May/2005) Port Comments	l: none t delay msec <u>/c</u> har 0 Port State	Port Config	MODE			LOCAL
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ort	Flow contro Transmi 0 h (13/May/2005) Port Comments	l: none t delay msec <u>/c</u> har 0 Port State	Port Config	MODE			LOCAL
ort COM4	Elow contro Transmi D h (13/May/2005) Port Comments TCP Client	l: none t delay msec <u>/c</u> har 0 Port State	Port Config 19200-8-None-1	MODE TCP Client	Connected		LOCAL -
ort COM4	Flow contro Transmi 0 h (13/May/2005) Port Comments	I: none t delay msec/ <u>c</u> har 0	Port Config 19200-8-None-1	MODE	VSP	10.1.0.1:1470	LOCAL -

- When TCP/IP connection is completed, you can start data communication through your virtual serial port.

License

6.1 License for use and distribution

- This software is shareware. This means:
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