ezTCP Utility

ezVSP3 User's Manual

Version 1.5

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Sollae Systems Co., Ltd.

http://www.sollae.co.kr

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1 Overview

• This document explains how to use ezVSP version 3.x.

1.1 What is ezVSP?

- ezVSP is a program playing the same role as ezTCP in your computer. You can use TCP/IP protocol conversion function with it. So, your serial communication program can communicate through the Ethernet with this program without any modifications.
- A serial port which is created by ezVSP is not a physical port. It is virtually created in your computer. But, you can see this port in the device manager.



Fig 1-1 Overview of ezVSP

• ezVSP version can be changed without prior notice for removing bugs or adding new features. You can download the latest version from our website.

1.2 Key features

1.2.1 Operating system compatibility

Operating system	32-bit platform	64-bit platform
Microsoft Windows Server 2000	0	0
Microsoft Windows Server 2003	0	0
Microsoft Windows Server 2008	0	0
Microsoft Windows XP	0	0
Microsoft Windows Vista	0	0
Microsoft Windows7	0	0

1.2.2 Features

- ezVSP is started automatically at Windows startup.
- ezVSP supports TCP server, TCP client and UDP communication.
- The TCP server provided by ezVSP can make only one(1) TCP/IP connection.
- ezVSP supports SSL v3.0 and TLS v1.0 when used as TCP server or TCP client.
- ezVSP supports RFC2217 (Telnet COM Port Control Option) when used as TCP server or TCP client.
- SSL secure communication and RFC2217 (Telnet COM Port Control Option) can't be used at the same time.

1.2.3 Version compatibility

- Are you using ezVSP version 2.x?
 - You don't have to remove old version for using new version (ezVSP version 3.x or higher). You can use two versions but can't run both of them at the same time.
 - 2. The information about virtual ports which is used in the old version is automatically migrated to the new version. The migration will be done when you run the new version for the first time. If you want to remove the old version, please do it after the migration has finished.
- Is it the first time to use ezVSP?
 - 1. Please, install ezVSP version 3.x or higher and refer to the *3. How to use ezVSP*



Installation 2

- 1. You can find the latest version on our website.
- 2. http://www.eztcp.com/en/Support/utilities.php

2.1 Installation procedure



Fig. 2-1 Ready to setup

1	🖁 ezVSP - InstallShield Wizard 🛛 🛛 🔀
	License Agreement Please read the following license agreement carefully.
	License for use and distribution
	This software is shareware. This means:
	1. 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. Not registered version do not have any limits.
	3. 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
	I accept the terms in the license agreement
	\bigcirc I $\underline{\mathrm{d}}\mathrm{o}$ not accept the terms in the license agreement
Ir	nstallShield
	< <u>B</u> ack <u>N</u> ext > Cancel

Fig. 2-2 Confirm the license agreement

🛃 ezVSP - InstallShield Wizard 🛛 🛛 🔀				
Ready to Install the Program The wizard is ready to begin installation.				
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard. Current Settings:				
Setup Type: Typical				
Destination Folder: C:₩Program Files₩SollaeSystems₩ezVSP3₩				
User Information: Name: hikim Company: Sollae Systems Co.,Ltd.				
InstallShield <u>Sack Install</u> Cancel				

Fig. 2-3 Setup information

ezVSP is installed in C:₩Program Files₩SollaeSystems₩ezVSP3. 3.

4. Click Install button for next step.

🔂 ezVSP	🛃 ezVSP - InstallShield Wizard					
Installing The prog	ez¥SP gram features you selected are being installed.					
15	Please wait while the InstallShield Wizard installs ezVSP. This may take several minutes.					
	Status:					
InstallShield –						
	< <u>B</u> ack <u>N</u> ext > <u>Cancel</u>					

Fig. 2-4 Installing(1)



Fig. 2-5 Installing(2)

5. A device driver for virtual com ports is installed to user's computer during installation procedures. It may take several minutes depending on your system.





Fig. 2-6 Installing(3)

6. After installing the device driver, a DLL for virtual com ports is installed to user's computer.



Fig. 2-7 Installing(4)

7. Click OK button for next step.



Fig. 2-8 Installation completed



3 How to use ezVSP

3.1 Registration

- 8. ezVSP is provided for users who use ezTCP
- 9. You should enter the MAC address of ezTCP and the KEY when you run ezVSP for the first time.

📴 ezVSP		×				
Information	Information					
Only registrant can use thi	s application.					
If you are ezTCP user, you	I can get the KEY from Sollae Systems homepage.					
The MAC address for the K	EY is printed in the label on ezTCP.					
Just click below link to visit	us.					
Registration : Sollae Systems(KOREAN) Registration : Sollae Systems(ENGLISH) Registration : Sollae Systems(CHINESE)						
Enter key and ezTCP's MAC	address					
MAC Address (exclude :)						
Key (include -)						
OK Cancel						

Fig. 3-1 Enter KEY

- 10. If you don't have any KEY, then you should get a KEY from our website. In order to get a KEY, you have to register the MAC address of your ezTCP.
- 11. When you want to get a KEY, just click [Registration link] on the dialog. It leads you to our website.
- 12. If you are using ezVSP version 2.x, then the dialog box doesn't show up.



Sollae Systems - ezVSP Re	egistration 🖄 ▼ 🗟 ▼ 프 🖶 ▼ 페이지(2) ▼ 안전(5) ▼ 도구(2) ▼ 🔞 ▼
source Sollae System	NS KOREAN CHINESE CONTACT US
HOME ABOUT US	PRODUCTS APPLICATION SUPPORT DOWNLOAD WHERE TO BUY
	Support
Support	
Technical Support	ezVSP registration
FAQ (FRO)	Your information is protected by SSL
Q&A	Dedictration form
Firmware History	
Latest Firmware revision	III MAC ADDRESS 00 30 F9
ezVSP	:: Company
ezVSP Registration	: Name
RSS	Country COUNTRY
RSS	E-MAIL
Survey	: Tel
Customer	II FAX
Satisfaction Survey	II OS OS 💌
	ezTCP Model name MODEL
	Purchase date 2011 1 9 1
	Request Registration
	* You can see the key right after pressing this button !!
Sollae Systems Co.,Ltd.	607 INCHEON IT TOWER 592-5 DOHWA1-DONG NAM-GU INCHEON 402-711 KOREA(REPUBLIC OF) Copyright © 1998-2010 SOLLAE SYSTEMS Co., Ltd. PH +82.32.245,2323 FX +82.32.245,2327 MAIL TO sales@eztcp.com All Rights Reserved.

Fig. 3-2 Registration(1)

- 13. Please fill all the fields. And then click Request Registration button.
- 14. The KEY will be sent to your email address. So, please make sure that email address is available.
- 15. The KEY is generated by using the MAC address. So, please remember the pair of the MAC address and the KEY.





Fig. 3-3 Registration(2)



3.2 Start and Exit the program

3.2.1 Start the program

16. ezVSP is started automatically at Windows startup and then it is minimized to system tray.



Fig. 3-4 Tray icon

3.2.2 Popup menus

17. You can see popup menus when you click the right button on the tray icon.



Fig. 3-5 Popup menus

Table 3-1 Popup menus

Menu	Function	
Onen	This menu shows the main window on your screen.	
Open	(You can also double-click the tray icon.)	
Exit	This menu exits the program.	
ezVSP (A)About	This menu shows the version information.	

🦉 ez¥5P 4.0D					<u>_ ×</u>
File Option					
Virtual Port	Comment	Virtual Port Setup	Network State	Create Edit	
				Virtual Port COM3 Use Physical Port Comment Network Configuration C TCP Client C TCP Server C UDP Host IP address or name Host Port 1470 Local Port 1470	
				Create Advanced	
•					

Fig. 3-6 Main window

3.2.3 Exit the program

18. The only way to terminate ezVSP is using Exit in the popup menus.

3.3 Create virtual ports

3.3.1 Basic settings

Create Edit	Сомз	Use Physical Port
Comment		
Network Co	onfiguration	
💿 TCP Cli	ent	
O TCP Se	rver	
OUDP		
Host IP add	fress or name	Host Port
		1470
		Local Port
		1470
Crea	te Adv	vanced

Fig. 3-7 Basic settings

19. Whenever you want to create a new virtual port, first you have to select Create tab and then fill basic settings.



Field	Comment	
Virtual Port	Select a port number.	
Use Physical Port	Use a physical COM port name on your PC.	
Comment	Brief explanation for the virtual port.	
Network Configuration	Select one among TCP Client, TCP Server or UDP.	
	- This field is only valid when the Network Configuration is	
Host IP address or name	TCP Client or UDP.	
	- It is remote host's IP address or domain name.	
	- This field is only valid when the Network Configuration is	
Host Port	TCP Client or UDP.	
	- It is remote host's port number of TCP or UDP.	
	- This field is only valid when the Network Configuration is	
Local Port	TCP Server or UDP.	
	- It is the virtual port's port number of TCP or UDP.	

Table 3-1 Basic settings

3.3.2 Advanced settings

Create Edit
Emulation of Baudrate SSL Telnet COM Port Control(RFC2217) Synchronization (Virtual port TCP connection statu
2
Basic Advanced
Create Advanced
1

Fig 3-8 Advanced settings

20. First click Advanced checkbox and then select Advanced tab then you can see the above window.

Field	Comment
Emulation of Baud rate	- It enables or disables emulation of data transfer speed, according to current virtual port Baud rate value.
SSL	 This field is only valid when the Network Configuration is TCP Client or TCP Server. You can't use this field with Telnet COM Port Control. It allows ezVSP to use SSL encryption algorithm for sending or receiving data through TCP/IP.
Telnet COM Port Control(RFC2217)	 This field is only valid when the Network Configuration is TCP Client or TCP Server. You can't use this field with SSL. It allows ezVSP to send or receive COM port's settings (Baud rate, data bit, stop bit, and parity) and states (RTS, CTS, DTR, DSR). Please refer the below document for more detail information about this field. http://www.eztcp.com/Support/an/an-eztcp-telcom-en-v13.pdf
Synchronization (Virtual port TCP connection status)	 When a virtual port is opened, it starts to make a TCP/IP connection. When a virtual port is closed, it starts to close a TCP/IP connection.

Table 3-2 Advanced settings

3.3.3 Create virtual ports

- 21. You can create a new virtual port by clicking Create button.
- 22. The below example is showing how to make a virtual port as a TCP Server.

Option					
Vistual Port	Comment	Virtual Port Setup	Network State	1	Create Edit
					Create Advanced

Fig. 3-9 Example of creating a virtual port(1)

ual Port	Lomment	Virtual Port Setup	Network State	reate Edit
📃 сомз			💻 [Listening] 1470	
				Virtual Port COM4 Virtual Port
				Comment
				Network Configuration
				TCP Client
				TCP Server
				OUDP
				Host IP address or name Host Port
				14/0
				Local Port
				1470
				Create

Fig. 3-10 Example of creating a virtual port(2)

23. The virtual port is available right after it is created. Also, it starts network communication.

3.4 Change virtual port setting

24. If you want to change virtual port settings then click one of virtual ports you want to change in ezVSP main windows then you can see the Edit tab automatically.

ezVSP 3.2A					
	Commern	vituar rott seup	Listening) 1470	1	Create Edit 2
<					Edt Advanced

Fig. 3-11 Change virtual port setting

25. You can change all the fields except for the Virtual Port field. After you are finished, click the Edit button.

3.5 Additional functions

3.5.1 Data bypass

Overview



Fig. 3-12 Data bypass overview

- 26. Two remote serial devices are communicating with each other by using virtual port's TCP/IP function.
- 27. This function is very useful when a remote device is using DHCP and doesn't support DNS and DDNS functions.

28. A virtual port which is using for data bypass function can't receive a data from user's serial communication program.

Make data bypass



Manage Data Bypass	Virtual Port Setup	Network State	Create Edit
Emulation of Baudrate		Listening] 1470 Listening] 1471	Vistual Port COM5 Configuration Network Configuration TCP Client O TCP Client UDP Host IP address or name Host Port 1470 Local Port 1471
			Create





Fig. 3-14 Manage data bypass(2)

	Manage Data Bypass
rtual Port	
COM4	
2	
Ŭ	
3	
ake	Delete
	rtual Port COM4 (2) (3) ake

Fig. 3-15 Manage data bypass(3)

29. Select a virtual port on the left side to make a data bypass and then click Make button.

Manage Data Bypass	×
Make Data Bypass	Manage Data Bypass
Select Virtual Port	COM3<>COM4
Make	Delete

Fig. 3-16 Manage data bypass(4)

Option			
ritual Port Comment	Virtual Port Setup	Network State	Create Edit Virtual Port COM5 Configuration Network Configuration TCP Client TCP Client TCP Server UDP Host IP address or name Host Port Local Port 1470 1471
			Create

Fig. 3-17 Manage data bypass(5)

Delete data bypass

Manage Data Bypass	
Make Data Bypass	Manage Data Bypass
Select Virtual Port	COM3<>COM4
	1
	2
Make	Delete

- Fig. 3-18 Manage data bypass(6)
- 30. Select a data bypass on the right side to delete and then click Delete button.

Manage Data Bypass	
Make Data Bypass	Manage Data Bypass
Select Virtual Port	
COM3 COM4	
Make	Delete

Fig. 3-19 Manage data bypass(7)

3.5.2 Log

Overview

- 31. Two log files will be stored in ezVSP installation folder. One is about a data, the other is about a system event. All file names are automatically generated by ezVSP.
- 32. If the size of any log file is over 5MB then new file will be created.

	Filename	Example
Data log	[Virtual port name] YYYY-MM- DD_HH-MM-SS_DATA.log	[COM2] 2010-06- 09_10_13_22_DATA.log
System log	[Virtual port name] YYYY-MM- DD_HH-MM-SS_SYS.log	[COM2] 2010-06- 09_10_13_22_SYS.log

- 33. YYYY-MM-DD_HH-MM-SS represent timestamp.
- 34. Below figure shows a log file format.



	Tir	nes	tam	р				Dir	ecti	on	& b	yte	cou	nt				
1.21	11 0	/ 0.4	/ 80	1.0	. 16	. 1.6	62		гш	CD_1			1.01	661				
5B	30	30	30	30	31	3A	61	5D	5B	30	30	30	30	31	3A	ı	[00001:a][00001	:
62	5D	5B	30	30	30	30	31	3A	63	5D	5B	30	30	30	30	I	b][00001:c][000	0
31	3A	64	5D	5B	30	30	30	30	31	3A	65	5D	5B	30	30	I	1:d][00001:e][0	0
30	30	31	3A	66	5D	5B	30	30	30	30	31	3A	67	5D	ØD	L	001:f][00001:g]	-
5B	30	30	30	30	32	3A	61	5D	5B	30	30	30	30	32	3A	L	[00002 <mark>7</mark> a] [00002	:
62	5D	5B	30	30	30	30	32	3A	63	5D	5B	30	30	30	30	L	b][000 <mark>2:c][000</mark>	0
32	3A	64	5D	5B	30	30	30	30	32	3A	65	5D	5B	30	30	L	2:d][0002:e][0	0
30	30	32	3A	66	5D	5B	30	30	30	30	32	3A	67	5D	ØD	L	002:f][00002:g]	-
5B	30	30	30	30	33	3A	61	5D	5B	30	30	30	30	33	3A	Í.	[00003:a][00003	:
62	5D	5B	30	30	30	30	33	3A	63	5D	5B	30	30	30	30	Ĺ	b][00003:c][000	0
				L														
	Н	IEX	cod	e													ASCII code	



Table	3-4	The	contents	of	а	data	loa	file
labic	5 -	THC	contents	UI.	u	uata	iug	me

	내용		
Timestamp	The time of data receiving or sending.		
Direction & bute	VSP->TCP : A virtual port has sent a data to TCP port.		
count	TCP->VSP : A virtual port has sent a data to serial port.		
	And total number of bytes of a data.		
HEX code	The HEX code of a data.		
ACCII codo	If the HEX code is between 0x31 and 0x128 then print its ASCII code.		
ASCII CODE	Otherwise, "." Is printed.		

Start log

ezVSP 3.2A			
File Option Manage Date Dypase	Virtual Port Setup	Network State	Create Edit
Manage Log Emalotion of Bood uto		[Listening] 1470	Virtual Port COM5 V Use Physical Port Comment Network Configuration TCP Server UDP Host IP address or name Host Port 1470 Local Port 1471
			Create

Fig. 3-21 Log(1)



Fig. 3-23 Log(3)

35. Select a virtual port on the left side to save a log file and then click Start>> button.

sollae



Fig. 3-24 Log(4)

Stop log

Manage Log		×
Manage Log		
	The log function may reduce a performance of ezVSP.	_
COM4	COM3 (1) (1) (2)	
	Close	

Fig. 3-25 Log(5)

36. Select a virtual port on the right side to stop and then click <<Stop button.

Manage Log		3
Manage Log		
The log function r	may reduce a performance of ez∀SP.	
COM3 COM4		
	Start >> << Stop	
	Close	

Fig. 3-26 Log(6)

3.5.3 Emulation of baudrate

Overview

37. A virtual port data transfer speed is faster than its Baud rate value. This function enables or disables emulation of data transfer speed, according to current virtual port Baud rate value.

Start emulation of baud rate

Manage Data Bypass	Virtual Port Setup	Network State	Create Edit
Manage Lon Emulation of Baudrate		EListening] 1470	Virtual Port Comment Network Configuration TCP Client O TCP Client UDP Host IP address or name Host Port Local Port 1470
			Create





Fig. 3-28 Emulation of baud rate(2)



Fig. 3-29 Emulation of baud rate(3)

38. Select a virtual port on the left side to start emulation of baud rate and then click Start>> button.

Emulation of Baudrate			X
Emulation of Baudrate			
]	СОМЗ	1
	Start >>		
	<< Stop		
	Close		

Fig. 3-30 Emulation of baud rate(4)

File Option	
Virtual Port Comment Virtual Port Setup	Network State
E]900:NONE:8:1:NONE	💻 [Listening] 1470

Fig. 3-31 Emulation of baud rate(5)

39. The "[E]" is shown on Virtual Port Setup field when a virtual port using emulation of baud rate.

Stop emulation of baud rate

Emulation of Baudrate			
Emulation of Baudrate			
		СОМЗ	
		(0
	Start >>		
	<< Stop		
	2		
	Close		
	0.036		

Fig. 3-32 Emulation of baud rate(6)

40. Select a virtual port on the right side to stop emulation of baud rate and then click <<Stop button.

Emulation of Baudrate	en e	×
Emulation of Baudrate		
СОМЗ		
	Garth	
	<< Stop	
	Chur	

Fig. 3-33 Emulation of baud rate(7)

3.5.4 Backup or restore virtual port setting

Overview

41. You can backup all virtual port settings into a file. Before saving, all information is encrypted.

ezVSP 3.2A File Option Delete Selected Virtual Port Virtual Port Setup Network State Create Edit lete All Virtual Por 9600:NONE:8:1:NONE 💻 [Listening] 1470 Backup Virtual Port Setting Virtual Port COM5 V Use Physical Port cestore virtual Port Setting Comment Open Script ? 🗙 ave As Exit Save in: 📋 My Documents 🕑 🔇 🤣 📂 🛄-My Music Ò ss or name Host Port My Recent Documents Local Port 1471 B Desktop Advanced 9 My Document My Computer 1 2 TEST ~ File name: Save My Ne Save as typ *.vsp Cancel

Backup virtual port setting

Fig. 3-34 Backup virtual port setting(1)

- 42. First, select the Backup Virtual Port Setting menu then the Save As dialog box is showing.
- 43. Second, fill the File name text box as you want to use and then click Save button.

Restore virtual port setting

📴 ezVSP 3.2A							
File Option							
Delete Selected Virtual Port Delete All Virtual Port	Virtual Por 9600:NC	t Setup NE:8:1:NONE	Network State		Create Ed	t \	
Restore Virtual Port Setting					Virtual Port	COM5	Use Physical Port
Open Script 0	pen				Commerk	? 🗙	
Exit	Look in:	📋 My Documen	ts	💌 G 👂 🖻	•		
	My Recent Documents Desktop	TEST.vsp					me Host Port
<	My Computer					2	
		File name:	TEST	~		pen	
	S	Files of type:	*.vsp	~		ancel	
	My Network		Open as read-only				

Fig. 3-25 Restore virtual port setting(1)

- 44. First, select the Restore Virtual Port Setting menu then the Open dialog box is showing.
- 45. Second, select a backup file as you want to restore and then click Open button.
- 46. If you have created a virtual port before restoring then below message box will be shown.



Fig. 3-36 Restore virtual port setting(2)

- 47. If you click Yes button then all existent virtual ports will be deleted before restoring.
- 48. If you click No button then the ezVSP will add new virtual port after existent virtual port.
- 3.5.5 Script

Overview

49. You can create a virtual port by using a text file. The text file is using specific syntax.

Syntax of script file

Item	Syntax			
		The "xx" represents virtual port number		
virtual port name		ex) [COM4]		
Virtual port comment	Comment=			
		0:TCP client		
Network	Network=	1:TCP server		
		2:UDP		
		- When TCP client or UDP.		
Host address	HostAddr=	- Enter IP address or DNS name of remote		
		host.		
Host port pumbar	HostDort-	- When TCP client or UDP.		
host port number	Hostront-	- Enter port number of remote host.		
Local part number	LocalDort-	- When TCP server or UDP.		
Local port number	LOCAIPOIL-	- Enter local port number.		
		SSL secure communication.		
SSL	SSL=	- 0 : Disable		
		- 1 : Enable		
		Telnet COM Port Control(RFC2217)		
RFC2217	RFC2217=	- 0 : Disable		
		- 1 : Enable		
Synchronization		Synchronization		
(Virtual port &	Sum e	(Virtual port & TCP connection status)		
TCP connection	Sync=	- 0 : Disable		
status)		- 1 : Enable		
Dub		Enter a virtual port name which you want to		
Data bypass	BypassPortName=	make a data bypass.		
		- 0 : Disable		
Log	Log=	- 1 : Enable		

50. A value of each item has to be placed after "=".

51. Each item have to end with <CR><LF>



[COM2] Comment=sensor #1 Network=0 HostAddr=172.16.0.1 HostPort=1471 LocalPort= SSL=1 RFC2217=0 Sync=1 BypassPortName=COM1 Log=1

3.6 Delete virtual ports

3.6.1 Delete a virtual port

52. When you want to delete one of virtual ports, check the checkbox in virtual port column and select the Delete Selected Virtual Port menu.

📴 ezVSP 3.2A				
File Option				
Viscal Port	Comment	Virtual Port Setup	Network State	Create Edit
Сомз			💻 [Listening] 1470	
				Virtual Port CUM4 V Use Physical Port
				- Network Configuration
	Option			TCP Client
	Delete Selected	Virtual Port		O TCP Server
	Delete All Virtual	Porc		OUDP
	Backup Virtual Po	ort Setting		Host IP address or name Host Port
	Restore Virtual F	Port Setting		Local Port
	Open Script			1470
	Exit			
	-			
				Create Advanced
<			· · · · · · · · · · · · · · · · · · ·	>

Fig. 3-37 Delete virtual port(1)

53. You can also delete one of virtual ports by using popup menu.

	-		I.e.	
itual Port	Commant	Virtual Port Sature	Maturak State	Create / Edit
 COM3 COM3 		Sad Delete 2	Listening 1470	Virtual Port COM3 Use Physical Port Comment Network Configuration TCP Client O UDP Host IP address or name Host IP address or name 10.161.86 1470 Local Port 1470
				Edit Advanced

Fig. 3-38 Delete virtual port(2)

3.6.2 Delete entire virtual ports

54. When you want to delete all virtual ports, then select Delete All Virtual Port menu. In this case, you don't have to check the checkboxes in virtual port column.

🔽 ezVSP 3.2A			
File Option			
	Virtual Port Setup	Network State	Create Edit
Delete All Virtual Port		💻 [Listening] 1470	
Backup Virtual Port Setting			Virtual Port COM4 Use Physical Port
Restore Virtual Port Setting			Comment
Open Script			Network Configuration
Exit			TCP Client
			O TCP Server
			Host IP address or name Host Port
			1470
			Local Port
			1470
			Create
			Advanced
<		· · · · · · · · · · · · · · · · · · ·	8

Fig. 3-39 Delete virtual port(3)

3.6.3 Cautions

55. It may take many seconds when it is in abnormal condition.

If the virtual port's Network State which you want to delete is in "Connecting" then this port will be deleted after the Network State is changed to other state.

56. You can't delete a virtual port when it is used by serial communication program.

3.7 Status of virtual ports

3.7.1 Status of virtual ports

57. You can identify virtual ports status by icons.

Table	3-7	Status	of	virtual	ports
iabic	5,	Status	0.	vii caai	porto

Icon	Comments
	A virtual port has created successfully.
	A serial communication program is using the virtual port.
	A virtual port is using 3.5.1 Data bypass function.
	Creating a virtual port is failed.
20	Please delete it and make again with another Virtual Port.

3.7.2 Status of the network

58. You can also identify the network status by icons.

Table 3-8	Status	of the	network
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Icon	Comments
	When Network Configuration is TCP Client :
	Trying to make a TCP/IP connection.
2005	When Network Configuration is TCP Server :
	Waiting a TCP/IP connection request.
	When Network Configuration is TCP Client or TCP Server :
	A TCP/IP connection is established.
202	When Network Configuration is UDP :
	Virtual port successfully binds specific UDP port.
	Error occurred :
20	You can see detail error message next to icon.

3.8 Check virtual ports information

- 59. You can check how many bytes have passed through the virtual port.
- 60. When you want to see this information, then double-click one of virtual ports.

ritual Port	Comment	Virtual Port Setup	Network State		Create Edit	
] 💻 сомз		Informati Rx (SERI Rx (VSP - Tx (VSP - B	[Listening] 14 [Listening] 14	0 bytes 0 bytes 0 bytes 0 bytes 1nCount[0]	Virtual Port COM3 Comment Network Configuration TCP Client TCP Client UDP Host IP address or name 1015.1.86	Host Port 1470 Local Port 1470
					Edt	Advanced

Fig. 3-12 Check virtual port information

Table 3-9 Virtual port information

Field	Comment		
RX[SERIAL->VSP]	Total number of bytes received from user's serial communication		
	program.		
RX[VSP->LAN]	Total number of bytes sent to LAN from RX[SERIAL->VSP].		
TX[LAN->VSP]	Total number of bytes received from LAN.		
TX[VSP->SERIAL]	Total number of bytes sent to user's serial communication from		
	TX[LAN->VSP].		
Buffer usage	RX, TX : Total number of bytes in the buffer of ezVSP for		
	transferring a data. Each buffer size is nearly 4,096 bytes.		
	GetInCount : Total number of bytes in the Virtual Serial Port		
	Driver.		

61. If you want to initialize these counters then click Initialize button.

History 4

Date	Version	Comments	Author
2010.02.25	1.0	⊖ Created	Jack Kim
2010.03.23	1.1	\bigcirc Change the figures and add new features.	Jack Kim
2010.06.16	1.3	\bigcirc Change the figures and add new features.	Jack Kim
2010.12.14	1.4	 Modify contents of operating system compatibility 	Jack Kim
2011.11.09	1.5	\bigcirc Change the figures and modify operating system	Lisa Shin
		compatibility	

