USER MANUAL

RFIDEAS

Configuration Utility User Manual



Used worldwide, our badge readers are very robust and read nearly every card type across the globe.

Thank You!

Congratulations on the purchase of your Modbus PoE device. RF IDeas hopes you enjoy using the reader as much as we enjoyed creating and developing them. Configuration is easy, so you will be able to quickly take advantage of a more secure environment in your business, school, or organization.

Visit <u>www.RFIDeas.com</u> and follow the Support ⇒ Learning Center link for more details about our additional product lines.

We look forward to your comments and suggestions for our various product lines. We are always discovering new applications and have several software developer's licensing our technology so the solution you are looking for may already be developed.

Please call our Sales department if you have any questions or are interested in our OEM and Independent Developer's programs.

Thank you,

The RF IDeas Staff

Need Assistance?

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Glossary of Terms

Terms	Definitions
ACP	ASCII Command Protocol
BootIP	Ethernet Boot Protocol
CSN	Card Serial Number
EIP	Ethernet Industrial Protocol
PoE	Power over Ethernet
PLC	Programmable Logic Controller
SDK	Software Developer's Kit – Software Developer's Kits from RF IDeas provide the high level command capabilities to integrate software applications to our devices.
UID	Unique Identifier

Information Symbols

Symbol	Meaning	Definition
	Note	Notes are useful information related to the text.
	Important	Important information can include prerequisites, limitations, and caution.

Contents

Glo	ssary of Terms	iii
Info	rmation Symbols	iii
Cha	pter 1. The Basics	.1
1.1	Standard	.1
1.2	Power Supply	.1
1.3	Equipment Needed	.1
Cha	pter 2. Getting Started	.2
2.1	Setting up the Modbus Reader for use	.2
2.2	Making the Basic Network Connections	.2
2.3	Establishing an IP Address	.2
2.4	Reader Configuration	.3
2.5	Configuring IP & Internal Data Mode Using Web Browser	3
	Configuration Options	4
	Internal Mode	4
2.6	Configuring IP and Internal Data Mode Using a Telnet Session	.5
	Telnet Menu Options	6
2.7	Configuring the Reader from pcProx [®] Config Utility	.7
	Configuring Multiple Identical Readers	8
2.8	Configuring the Reader Using ACP Commands	.9
	ACP Overview	9
	Communication	9
	From Windows	10
	Command Structure	10
	Perform a Function	11
	Assign a Variable	11
	Query a Variable	12
Cha	pter 3. Modbus Scanner1	13
3.1	Shortbus Modbus Scanner	13

Chapter 1. The Basics

1.1 Standard

The PoE reader follows the IEEE 802.3af-2003 standard.

1.2 Power Supply

Power is supplied in <u>common mode</u> over two or more of the <u>differential pairs</u> of wires found in the <u>Ethernet</u> cables and comes from a power supply within a PoE-enabled networking device such as an <u>Ethernet switch</u> or can be *injected* into a cable run with a *midspan* power supply.

Power is supplied to the reader over the Ethernet connection in common mode over two or more pairs of wires on a PoE enabled network. The power is provided by a PoE router, Ethernet switch or can be injected into the cable with an additional midspan power supply available over the counter in most computer hardware stores or from catalog providers.

1.3 Equipment Needed

- RJ45 patch cable
- PoE capable network port, local router or power injector.
 - PC (for initial setup) running:
 - o Microsoft Windows
 - o Shortbus Modbus Scanner
 - Telnet or other serial communications software and/or pcProxconfig5 application

Chapter 2.Getting Started

2.1 Setting up the Modbus Reader for use

The configuration of the reader in most installations requires minimal changes for implementation. However, there are options for configuring the reader. In any situation, setup may need to be done in at least one of the methods described in this manual. Follow the details to establish the communication settings and credential formats you will need to get the end application running right the first time. A typical installation will involve the following:

- 1. Make basic network connections.
- 2. Establish an IP address for the reader.
- 3. Configure the data mode: Listen or Polling
- 4. Configure the reader credential type(s) and associated data format.
- 5. Install the reader at the installation site.

2.2 Making the Basic Network Connections

The reader must be connected to a PoE capable connection to provide power to the reader and its communication dongle. For direct connection to the PLC, a simple network crossover cable can be used once the reader is configured.

Connect the reader to the PoE capable port. If one is not available, or for temporary configuration purposes, a power injector can be used. If using a power injector, refer to the manual included with the power injector for instructions on proper connection. Once the PoE network provides power to the reader a beep will be heard and the LED will illuminate red indicating the physical connection has been made and the port is powering the reader.

2.3 Establishing an IP Address

Once the physical connections have been made, the reader will request an IP address from the router or server. A dynamic address can be assigned by the network. Dynamic addresses can change as other devices are added to the network the PoE device is connected to. Static IP addresses are constant and therefore recommended.

On the administrator PC the DHCP Server may be used to assign an IP address (or use a standalone BootP server). An IP address pool should be established for large quantity reader deployment. For a direct reader connection; a static IP address may be required.

2.4 Reader Configuration

The reader requires some configuration prior to use. There are many ways to configure the reader. Once assigned, the IP address and internal mode can be configured through a web browser or through telnet to port 9999.

The reader can also be configured to change credential ID types supported, set the device logical unique ID and format the ID data output. To do this the pcProx Configuration utility can be downloaded and connected to a session using port 10001. Or, direct configuration can be performed through a Telnet session to port 9999.

In any situation, the reader will first need to have its IP address assigned and the internal data mode be set.

2.5 Configuring IP and Internal Data Mode Using Web Browser

From the web browser, type in the local IP address assigned to the PoE Modbus reader as shown.

Example: //10.10.10.103

A 0 10 10 10 10	2 <i>d</i> 0 count	人合	(77) 33	-
- 0 10.10.10.10	s C Search	ע ש	• "	
pcProx Plus l	POE Modbus TCP	Configura	tion	
Firmware Version 1.0	01			
DHCP Enabled:				
IP Address:	10.10.103			
Subnet Mask:	255.255.255.0			
Gateway:	10.10.10.1			
Serial Tunnel TCP P	ort: 10001			
Internal Mode				
Listen for Card R	eads			
O ACP QID Poll				
Apply Setting				
Apply Setting				

Configuration Options

<u>DHCP Enabled</u>: When checked, this will enable the DHCP protocol. Unchecked will allow static IP address configuration.

<u>IP Address</u>: Displays the current IP address in the text box. Here the IP address of the PoE Reader can be edited if BOOTP is disabled. The address can be either dynamically assigned DHCP or a static IP address.

<u>Subnet Mask</u>: Displays the current Subnet mask in the text box. Here the subnet mask used by the PoE reader can be edited. Typically, the subnet mask will be 255.255.255.0 for most networks.

<u>Gateway</u>: Displays the current Gateway used by the PoE reader. Here the Gateway path can be edited. Set to 0.0.0.0 if the gateway will not be used.

<u>Serial Tunnel TCP Port</u>: Displays the current port address of the serial over Ethernet tunnel. Here the TCP Port used by the serial tunnel can be edited. Default is 10001 and typically does not need to be changed.



Internal Mode: Here two radio button choices are shown. Select either "Listen for Card Reads" or "ACP QID Poll" depending on your intended use. See "Configuring the Internal mode"

Internal Mode

By default, the internal data mode is set to Listen Mode. If this is the mode desired and a standard RF IDeas reader is attached (81 in the model name), this step can be skipped. If the reader is a SDK model (82 in the model name) the mode must be set to polling mode.

The PoE for PLC reader module offers two data modes to send data over the Modbus network to the PLC: Listen mode and Polling mode.

<u>Listen Mode</u>: Utilizes the reader's asynchronous serial communication to send ID data. When an ID is presented under listen mode:

- Sequence number is incremented
- ID bit count field is set to one
- ID data will be present

The data sent to the PLC will be valid as long as the ID remains present in the reader's communication field. Once the card is removed the reader module will clear the ID data available to the PLC. This mode will set a one in the ID Bit Count field when data is available giving a Boolean method of triggering on card presence in addition to the sequence number. Listen mode offers the ability to adjust the data sent from the reader to simplify some programming at the PLC level. The

valid ID length can be set in the reader so only valid data lengths are acknowledged when present. Depending on the data sent, listen mode can be the fastest method of retrieving ID data.

<u>Polling Mode</u>: Sets the reader to poll for updated ID data continuously. When an ID is presented to the reader in polling mode:

- Sequence number is incremented
- ID Bit Count Field reports the ID bit count
- ID Data will be present

The data sent to the PLC will be valid as long as the ID remains present in the reader's communication field. Once the card is removed the reader module will clear the ID data available to the PLC. This method offers the addition of an ID Bit Count in the assembly instance that can be used to verify the ID is the correct data length. The valid ID length can also be set in the reader so only valid data lengths are acknowledged when present.

2.6 Configuring IP and Internal Data Mode Using a Telnet Session

From Windows, click start > Run and then type CMD to access the command line window.

From the command prompt, type telnet, the assigned IP address of the PoE reader followed by 9999.

Ex: c:\>telnet 52.46.49.44 9999.

Once connected, the user will be prompted to enter setup mode:



This will bring up the configuration menu options. If the telnet session fails to connect, verify the IP address has been entered correctly.

Telnet Menu Options

MAC address 00:1D:4B:F1:20:01 Firmware Version 1.01 - pcProx Plus POE for PLCs Setup Menu Press Enter to go into Setup Mode *** Basic Parameters IP Addr 15.25.55.2 Netmask 255.255.255.0 No Gateway Set Change Setup: Ø Server Configuration 1 ACP Client Configuration 6 Debug 7 Factory Defaults 8 Exit without Save 9 Exit with Save Your choice ? _

0 - Server Configuration

Edit the server IP address currently assigned to the PoE reader

Enter the IP address when prompted.

The device will display the current entry in brackets (xx). Pressing enter will advance to the next entry.

After the IP address has been edited, the user will be prompted to enter the subnet mask in the same manner. Once all edits have been made, "set Gateway IP Address (N)" will appear.

Press Y then enter to change to an alternate gateway address. Otherwise press enter at the prompt to leave the entry as it is. In most configurations, it is not necessary to edit the Gateway setting.

The user will then be prompted with "Serial Tunnel TCP Port: (10001)?" Here the user can change the port address of the serial over Ethernet tunnel. The default is set to 10001. It can be changed to any non-conflicting port address that is not presently in use (Port 80 is reserved to the web configuration menu. Port 9999 is reserved to the Setup menu). In a typical configuration, it is not necessary to edit this port setting. Pressing enter will accept all changes and return to the main menu. At this point the setting have not been saved. To save the changes, press 9 and enter from the main menu.

1 – ACP Client Configuration

Sets the "ACP Client Mode" and "ACP Poll Interscan Delay". The user can select either "listen" or "Poll" modes. "Listen" allows the device connected to listen for a card to be read.

"Polling" allows the user to continuously poll the reader every 250 ms to 2 seconds for changes in the ACP QID (Queued ID).

Pressing 1 and then enter will display "ACP Client Mode (0=Listen, 1=Poll): (1)?". The default is set to 1.

Pressing enter again will display "ACP Poll Interscan Delay (250..2000 ms): (250)?

See Input / Output Assembly options

<u>6 – Debug</u>

Sets the PoE to continuously read out the packet transfers. Press Escape to stop the process.

<u>7 – Factory Defaults</u> - Resets the PoE to defaults.

8 - Exit without Save

This option will exit the setup menu without saving any changes made since the start of the session.

9 – Exit with Save

This option will exit the setup menu and save any changes made since the start of the session.

2.7 Configuring the Reader from pcProx[®] Config Utility

By default, all readers are shipped to detect standard ID formats and a typical data length for the model. Data formatting can be changed to the appropriate format through a variety of commonly used settings to achieve the data output required in the application. The pcProx[®] Plus line of readers can be configured to the desired ID type by choosing from different standard brands and/or formats.

If additional configuration is necessary for the reader to work in the intended application, this can be done by using the pcProx Config application or directly through the serial over Ethernet tunnel using a telnet session.

Configuration using pcProx Config:

Download and install the pcProx Config application version 5.2.19.1 or higher for the reader type purchased, from our website at <u>www.rfideas.com/support/downloads</u>

Open the pcProx Config utility.

🎸 🛛 😵 🖌 🗸	
onnect Disconnect Write Active	
configuration # 1 I HID Prox : RDR-608x Compatible	High priori
Connect Data format Delimiters Timing SDK CHUID	
Connection type	
USB (Universal Serial Bus)	
C Use USB bus VID 0C27 PID 3BFA	
Serial: RS-232 and virtual COM ports	
C Use COM ports 1 → through 8 →	Default 18
- Ethernet (Local ID 15 15 15 2)	
• Use 1CP/IP 62	Port 10001 THIN NEXT P
Device list	
#01 MAC:00:1D:48:F1:20:20 TCP/IP:52.46.49.44,Port:10001 Firmware:10.6	6.0 LUID:0/0x0000
Model: RDR-80581AK2	
utput test area	
utput test area	T Auto focus T Auto dear Clear
utput test area Auto GetID ard ID shown here when Auto ID is checked	T Auto focus T Auto dear Clear
utput test area Auto GetID ard ID shown here when Auto ID is checked lick here to see data	Auto focus T Auto dear Clear
utput test area T Auto GetID ard ID shown here when Auto ID is checked ick here to see data	Auto focus T Auto dear Clear

Click on the radio button under *Ethernet* next to "*TCP/IP*".

Enter the IP address of the reader and click, *Connect* in the menu bar.

Once connected, the reader will appear in the device list drop down menu.

Configure the data format, timing or other settings as needed and click the *Write Active*.

For pcProx plus models, choose the configuration number from the drop-down menu and then choose the appropriate ID type for each configuration. When finished, choose *Write Active* from the menu bar.

Configuring Multiple Identical Readers

If you need to configure more than one reader with the same configuration settings the process can be simplified by using hardware configuration files. To create one, set up a reader to the configurations needed in the end application. Once the settings are edited on

the first reader by "Write Active"; save them to a template file.

To do so:

- 1. Click on File>>Save device data to Hwg+ file
- 2. Type in an easy to remember name for your file.
- 3. Save the file to a known directory on your PC.
- 4. Disconnect the reader.
- 5. Connect the next reader to be configured.
- 6. Click connect from the menu bar.
- 7. Choose File>>Open hw/hwg+ file.
- 8. Navigate to the directory where the file was previously saved.
- 9. Click on the file and then click open.
- 10. Click on "Write Active" from the menu bar.

The settings are now activated on the new reader. Repeat this process for each reader in the installation.

2.8 Configuring the Reader Using ACP Commands

The Modbus PoE for PLC reader uses some ACP commands internally. However, there are many commands that can be used to choose configuration ID types, change data formatting and adjust parity bits among other commands. In listen mode, the reader uses delimiters for framing the ID data. Any changes to pre or post data delimiters will be over-written by the reader. In polling mode, all pre and post delimiters are not used. This manual will provide a brief overview for accessing the commands and their general structure. For more information or to see a full list of available commands, see the ASCII Command Protocol manual.

ACP Overview

ASCII Command Protocol (ACP) allows direct configuration of the device without downloading an application or creating a proprietary interface. The feature is available on CDC, Serial, PoE and Ethernet based readers. The serial Prox reader communicates using ASCII commands.

The reader then parses the command, performs the operation, and may display the result or an error code. All command strings begin with the prefix rfid: and end with a Return key (Enter), CR or LF.

Communication

Modbus and PoE based readers will communicate through a serial tunnel over the Ethernet connection. The Modbus PoE readers will require a telnet session to communicate to the reader.

ACP commands can be sent directly to the reader through the serial tunnel port. This port is defaulted to port 10001 unless changed within the configuration setup menu accessed through the web browser.

From Windows

Go to Start ⇒ □Run and type CMD then press Enter to open a dos window (From Windows 7, Go to Start then type CMD in the search box and press Enter)

At the command prompt, begin a telnet session by typing: telnet {IP address} 10001 where {IP address} is the IP address assigned to the reader.

ल्. Telnet 15.25.55.2	×
RF IDeas> RF IDeas>RFID:HELP_	
:)	
•	
	*

Example: c:\>telnet 52.46.49.44 10001

When the telnet session is started, press enter to display the RF IDeas prompt.

At the prompt, type *RFID:HELP* to see a listing of variables and their command syntax.

To see what the reader is currently set to for the current configuration type *RFID:VAR*

Make the necessary changes to the reader configuration. Type *RFID:CFG.WRITE* to save the changes (in RAM) to FLASH memory and activate the settings that were modified.

Command Structure

Commands are not case sensitive. Characters assigned to variables however, are case sensitive.

- All commands begin with rfid followed by one or more token strings with a period delimiter character between multiple tokens.
- Functions must end with a CR or LF.
- Any control characters other than CR, LF, and backspace terminate the command.
- Variables can be assigned a value with an equal sign followed by the value or queried with a question mark.
- The Escape key cancels a command.

The general syntax is:

Rfid: TOKEN { DELIMITER TOKEN } { { =Value} | {?} }

Command structure falls into one of three groups:

- 1. Perform a function.
- 2. Assign a variable.
- 3. Query a variable.

Perform a Function

A function performs an operation that may or may not display any results. A function may not be queried. An example of a function is to write the variable settings to flash memory using **rfid:cfg.write CR**.

Certain functions that display a value or series of values display the string between curly braces for easy parsing. For example, the **rfid:qid** function output displays:

{0x00BB,1,0x00,80;0x00000801CD1931B2F14}

Assign a Variable

There are three types of variables:

1.Boolean 2.Integer 3.Character

Examples of Boolean Assignments

rfid:op.beep=0 rfid:op.beep=true rfid:op.beep=False rfid:op.beep=F

Examples of Integer Assignment

rfid:out.led=0003 rfid:out.led=3

All 16-bit integer values require a hexadecimal entry

For Example: pcProx Plus card types: rfid:cfg.card.type=0xEF04

Examples of Character Assignment

rfid:Delim.Chr.fac=':' CR rfid:Delim.Chr.fac='x3a' CR

Examples of pcProx[®] Plus Configuration

To set configuration #1 to read Mifare CSN the following commands would be entered:

rfid:cfg=1 CR rfid:cfg.card.type=0x7F41 CR rfid:cfg.write CR

The reader will then respond with {ok}

To then set configuration #2 read HID proxII the following commands would be entered:

rfid:cfg=2 CR rfid:cfg.card.type=0xEF04 CR rfid:cfg.write CR

The reader will then respond with {ok}

Query a Variable

A Variable can be queried to display its current value. Variables are set and stored in RAM and are lost when the utility is closed. Use **rfid:var** to display the list of current ram settings. The **rfid:cfg.write** function writes the RAM variables to flash memory. If a variable is changed incorrectly, the settings can be replaced with those from flash using the **rfid:cfg.read** command.

 The output of the variable displays between curly braces. Example: RF IDeas>rfid:out.led? {3}

Booleans display as true or false.

Chapter 3. Modbus Scanner

3.1 Shortbus Modbus Scanner

- 1. FIND DEVICE
 - a. Use Lantronix "Deviceinstaller" to search for Modbus devices. Note the IP address
 - b. Use a web browser and go directly to the IP address of the device. Change any parameters desired.
- 2. MODBUS SCANNER
 - a. Use "Shortbus Modbus Scanner" or equivalent
 - b. Set "Connection" pulldown to TCP and load in TCP address from #1 above
 - c. Set "Read Function" to FC4 Input Registers
 - d. Set "*Result Format*" to Unsigned Integer 16-bit (or any other preferred date format)
 - e. Set "Length To Read" to 19
 - f. Press Connect
 - g. Present card

🖳 ShortE	lus Modbus Scann	er v2.5 -	Read W	/indow	1						5	- 🗆 X
Connectio	n TCP 🗸	Node Add	ress	1			Read Function	FC 4 - R	ead 3x (Input Re	gisters) 🗸 🗸	Con	nect
		Starting Av	ddress	1	0-Based	Hex	Result Format	Unsigne	d Integer 16-Bit	~	Disco	nnect
		Length To	Read	19	Char Delay (ms)	250	Byte Order	Normal		×.	Total Polls: 727	Peart Pall
TCP Addr	ess 10.10.10.127	TCF	Port	502	Poll Delay (ms)	1000					Valid Polls: 727	Counters
Log Name	e (double-click for pro	ompt) out	put.txt				Log App	pend	Start Log	End Log	Open New R	ead Window
No F	TTOT										Write	Multiple
DOUBLE	CLICK VALUE T											
300001:	27	0 0101										
300002:	0											
300003:	1											
300004:	0											
300005:	0											
300006:	0											
300007:	0											
300008:	0											
300009:	0											
300010:	0											
300011:	0											
300012:	0											
300013:	0											
300014:	0											
300015:	0											
300016:	0											
300017:	0											
300018:	183											
300019:	5607											

3. MODBUS INPUT REGISTERS

- a. Input Register 1: Sequence number (auto increment with each card presented)
- b. Input Register 2: LUID
- c. Input Register 3: Bit count

- d. Input Register 7-19: Card data
- 4. MODBUS OUTPUT REGISTERS
 - a. Holding Register 1: LED Control
 - bit 0 = red
 - bit 1 = green
 - both = yellow
 - b. Holding Register 2: BEEP Control
 - 1 single short beep
 - 2 two short beeps
 - 3 three short beeps
 - 4 four short beeps
 - 5 five short beeps
 - 101 single long beep
 - 102 two long beeps
- 5. EXAMPLE: HID PROX READ
 - a. Card number printed on card is 05607
 - b. Shortbus read below:

Connection TCP V Node	Address	1			Read Function	FC 4 - Read 3x (Input Re	egisters) 🗸 🗸	Conn	iect
Startin	ng Address	1	0-Based	Hex	Result Format	Unsigned Integer 16-Bit	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Discon	nect
lengt	h To Bead	19	Char Delay (ms)	250	Byte Order	Normal			
CP Address 10 10 10 127	TCP Port	502	Poll Delay (ms)	1000	-,			Valid Polls: 727	Reset Poll Counters
		002	· or boldy (int)	1000			-		1100 1
og Name (double-click for prompt)	output.txt					Start Log	End Log	Open New Re	ead Window
lo Error								Write M	lultiple
UBLE-CLICK VALUE TO DI	SPLAY W		WINDOW						
0001. 27									
0001: 27									
10002: 0									
00003: 1									
0004· 0									
0005									
0005: 0									
00005: 0 00006: 0									
00005: 0 00006: 0 00007: 0									
00005: 0 00006: 0 00007: 0 00008: 0									
00005: 0 00006: 0 00007: 0 00008: 0 00009: 0									
00005: 0 00006: 0 00007: 0 00008: 0 00009: 0									
00005: 0 00006: 0 00007: 0 00008: 0 00009: 0 00010: 0									
00005: 0 00006: 0 00007: 0 00009: 0 00010: 0 00011: 0 00012: 0									
00005: 0 00006: 0 00007: 0 00009: 0 00010: 0 00011: 0 00012: 0 00013: 0									
00005: 0 00007: 0 00008: 0 00009: 0 00010: 0 00011: 0 00012: 0 00013: 0									
00005: 0 00006: 0 00007: 0 00008: 0 00009: 0 00010: 0 00011: 0 00012: 0 00013: 0 00014: 0									
00005: 0 00007: 0 00008: 0 00009: 0 00010: 0 00011: 0 00012: 0 00013: 0 00014: 0 00015: 0									
00005: 0 00006: 0 00007: 0 00008: 0 00009: 0 00010: 0 00011: 0 00012: 0 00013: 0 00015: 0 00016: 0 00017: 0									
00005: 0 00006: 0 00007: 0 00008: 0 00009: 0 00010: 0 00011: 0 00012: 0 00013: 0 00014: 0 00015: 0 00017: 0 00017: 0 00018: 183									

Register 19 is 5607 which is the card number

- 6. EXAMPLE: BEEP 3 short beeps
 - a. Reconnect Shortbus with only 2 registers, reading the Holding registers in Integer format
 - b. Double click data in register 2.
 - c. Click check box "Use FC 5/6".
 - d. Type in 3 for 3 short beeps.
 - e. Click on "Send Write"

🔛 ShortBus Modbus Scanr	ner v2.5 - Read V	Window	1					a .	- 🗆 🗙
Connection TCP 🗸	Node Address	1			Read Function	FC 3 - Read 4x (Holding R	egisters) 🗸	Conn	ect
	Starting Address	1] 🗌 0-Based 🔲	Hex	Result Format	Unsigned Integer 16-Bit	~	Discor	nect
	Length To Read	2	Char Delay (ms)	250	Byte Order	Normal	~	Total Polls: 1131	Reset Poll
TCP Address 10.10.10.127	TCP Port	502	Poll Delay (ms)	1000				Valid Polls: 1131	Counters
Log Name (double-click for pr	rompt) output.txt	5			🗌 Log App	end Start Log	End Log	Open New Re	ead Window
DOUBLE-CLICK VALUE 1 400001: 1 400002: 3	TO DISPLAY V	VRITE V	VINDOW		₩rite Unsigned Write Onc ✓ Use Fi Min	2: W			

END-USER LICENSE AGREEMENT

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