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1. Preface

The **eWon drivers eXtender** provides eWON devices with a flexible solution for extending communication protocols. The software is installed directly into eWON device and can be controlled by the native web interface. For sake of simplicity the configuration is done via web interface, in the same way you setup an eWON TAG.

For each communication driver we provide a sample set of TAG already configured and ready to use.

This software can be evaluated in **demo mode** for 10 minutes from the eWON's startup. To enable demo mode you need to generate a demo license file for your eWON. To get a license file please visit <u>www.ewondrivers.com</u>

IMPORTANT

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- a) you modify and save any tag's parameter (description, address, etc.) while **eWon drivers eXtender** is running <u>and</u>
- b) you are using a driver that is able to write the tag value to field and
- c) the global writing flag is enabled

then this will cause the driver to write a "zero" value to the tag's value and so to the field.

In order to avoid this behavior you have two options:

- 1. Disable the global writing flag during the tag setup phase. Please refer to chapter 3.5.3 Command TAG.
- 2. Stop **eWon drivers eXtender** during the tag setup phase. Please refer to chapters 2.6 Start and Stop commands and 3.5.3 Command TAG.

Drivers capable of writing tag values to field are available for **eWon drivers eXtender** version 4.0 and above. Please refer to the specific driver documentation to know if it is capable of writing tag values to field.



2. Installation

The installation phase consists of five steps:

- 1. File transfer
- 2. TAG Setup (driver's specific sample file)
- 3. First run
- 4. License Key
- 5. Start and Stop commands

2.1. Remove previous version

Before installing a new **eWon drivers eXtender** release you need to remove the previous installed version, if any. To do this you need to stop the JVM:

STOP:

http://IP-eWon/rcgi.bin/jvmCmd?cmd=stop

 \times S 172.17.70.115/rcgi.bin/jvmCmd? × + ← → C (i) Non sicuro | 172.17.70.115/rcgi.bin/jvmCmd?cmd=stop : 🕶 🏠 😩 JVM Stopped

and delete the following contents that you can find under /usr directory using an FTP client like Filezilla:

- JavaApp
 - Directory with **eWon drivers eXtender**.
- Jvmrun
 - If this file exists **eWon drivers eXtender** starts when eWON starts.

eWon drivers Vers. 07 - User Manual



🔁 adm@172.17.70.103 - FileZilla	1								
<u>File Modifica V</u> isualizza <u>T</u> rasferimento <u>S</u> erver <u>S</u> egnalibri <u>Aj</u> uto <u>N</u> uova versione disponibile!									
N - N	3 💺 🛷 🗉 📯 🤔 🐧								
Host: 172.17.70.103 Nome uter	nte: adm Pass	word: •••	Porta:	Connessione rapida					
Comando: LIST Risposta: 150 Opening ASCII mode dat Risposta: 226 Transfer complete. Stato: Contenuto cartella letto con :	a connection for directory listing successo					•			
Sito locale: UWON DEVELOPMENT\eXtend	ter eWon drivers\usr\ ati I Release enti vari er eWon drivers ample TAG ti		ito remoto: /usr ∃ 🚡 / ⊕ 🕞 usr			×			
Nome file /	Dimension Tipo file	Ultim	Nome file /		Dimension	Tipo file			
in Config JavaApp in license i jvmrun	Cartella Cartella Cartella 220 File	di file 26/08 (di file 26/08 (di file 26/08 (26/08 (〕 〕Config 〕JavaApp ← 〕license 到jvmrun ←		220	Cartella di file Cartella di file Cartella di file File			
<		> <]			>			
1 file e 3 cartelle. Dimensione totale: 220 b	/te	1	file e 3 cartelle. Dimensio	ne totale: 220 byte					



2.2. Installation

Extract the **eWon drivers eXtender** archive and upload the **"usr"** directory content in the eWON's **"/usr"** directory using an FTP client like Filezilla.

Usr's contents:

- Config
 - Directory with CSV file for custom TAG configuration.
- JavaApp
 - Directory with **eWon drivers eXtender**.
- license
 - Directory with license files.
- Jvmrun
 - If this file exists **eWon drivers eXtender** starts when eWON starts.

At the end of the transfer you should be in this state:

🛃 adm@172.17.70.103 - FileZilla									
Elle Modifica <u>Vi</u> sualizza <u>T</u> rasferimento <u>S</u> erver <u>Segnalibri</u> <u>A</u> juto <u>N</u> uova versione disponibile!									
2 •									
Host: 172.17.70.103 Nome	utente: adm	Pass <u>w</u> ord:	•••	Porta		Connessione rapida	•		
Comando: LIST Risposta: 150 Opening ASCII mode Risposta: 226 Transfer complete. Stato: Contenuto cartella letto c	data connection for director on successo	y listing.							<
Sito locale: \&Won DEVELOPMENT\eXi @ Con @	tender eWon drivers\usr\ npilati tom Release numenti vari ender eWon drivers eXample TAG usr genti vON			Sito remoto:	/usr				
Nome file /	Dimension	Tipo file	Ultim	Nome file /				Dimension	Tipo file
inense icense icense isense isense isense isense isense isense isense isense isense isense isense isense isense isense	220 F	Cartella di file Cartella di file Cartella di file file	26/0٤ 26/0٤ 26/0٤ 26/0٤	Config Config JavaApp License				220	Cartella di file Cartella di file Cartella di file File
<	1		>	<					>
1 file e 3 cartelle. Dimensione totale: 22	0 byte			1 file e 3 cartell	e. Dimensio	ne totale: 220 byte			



2.3. TAG Setup

For a quick configuration, for each type of protocol will be given a file **"var_lst.csv"** for the automatic generation of some sample TAG. The samples in this guide will refer to *Aurora Power-One* protocol.

Open the **"Aurora PowerOne"** directory in the **"eXampleTAG"** directory. Here you can find the **"var_lst.csv"** file. Upload **"var_lst.csv"** in the eWON root directory.

At the end of the transfer you got a ready to use TAG List for an **Aurora Power-One** inverter on node address 2. (see chapter 3.2 for more information on node address)

At the end of the transfer you got this TAG list:

		Q Filt	er			😂 🖸 Add 👻 🗣 Edit	× Delete	Configure Alarm action:			
MODE SETUP			٥	2	æ	Name	Туре	IO Server Topic	IO Address 😻	Value	Tag description
PAGES	+					INV1_Vout	Floating po	MEM	INV1_Vout	0	Grid Voltage [V]
	-					INV1_lout	Floating po	MEM	INV1_lout	0	Grid Currrent [A]
Default						INV1_Pout	Floating po	MEM	INV1_Pout	0	Grid Power [W]
System						INV1_Fout	Floating po	MEM	INV1_Fout	0	Frequency [Hz]
						INV1_Vin1	Floating po	MEM	INV1_Vin1	0	Input 1 Voltage [V]
TAG GROUPS						INV1_lin1	Floating po	MEM	INV1_lin1	0	Input 1 Current [A]
Group A Gro	oup C					INV1_Pin1	Floating po	MEM	INV1_Pin1	0	A Input 1 Power [W]
Group B Gro	oup D					INV1_Vin2	Floating po	MEM	INV1_Vin2	0	Input 2 Voltage [V]
						INV1_lin2	Floating po	MEM	INV1_lin2	0	Input 2 Current [A]
						INV1_Pin2	Floating po	MEM	INV1_Pin2	0	Input 2 Power [W]
						INV1_Vbulk	Floating po	MEM	INV1_Vbulk	0	Vbulk [V]
						INV1_lleakDC	Floating po	MEM	INV1_Ileak	0	lleak (Dc/Dc) [mA]
						INV1_IleakINV	Floating po	MEM	INV1_IleakI	0	lleak (Inverter) [mA]
						INV1_Riso	Floating po	MEM	INV1_Riso	0	Isolation Resistance [mOhm]
						INV1_Tinv	Floating po	MEM	INV1_Tinv	0	Inverter Temperature [°C]
						INV1_Tbooster	Floating po	MEM	INV1_Tboo	0	Booster Temperature [°C]
						INV1_Fan1	Floating po	MEM	INV1_Fan1	0	Fan 1 Speed [%]
						INV1_Fan2	Floating po	MEM	INV1_Fan2	0	Fan 2 Speed [%]
						INV1_Fan3	Floating po	MEM	INV1_Fan3	0	Fan 3 Speed [%]
						INV1_Fan4	Floating po	MEM	INV1_Fan4	0	Fan 4 Speed [%]
						INV1_Fan5	Floating po	MEM	INV1_Fan5	0	Fan 5 Speed [%]
		🗹 Au	torefres	h — Ra	ite:	1 🚔 sec.					Displaying 64 tags
eWON Name: eWON	Firmw	are: 13.3	3s0 (#792	2) S/	'N: 182	2-0177-21					Current time: 09/09/2019 17:16:27 Status 🥙 🦲



2.4. First run

If you correctly uploaded "jvmrun" on the "/usr" eWON's directory just reboot and wait for loading. Log messages are visible in the <u>Real Time Log</u> page of the eWON:

Flexy #>	Diagnostic > 🥑 Logs >	契 Realtime	logs	Logged in as & Adm	0	🎢 Wizar	ards
Q Filter tree	Realtime Logs						
Home	Q, Filter	Items to dis	splay: 500 🗘 🖸	Source:	All source:	3	-
🧭 Summary	Time	Source	Event	Clock	E	vent ld 🗍	
Tags	09/09/2019 16:08:19	JVM	at ModbusRtuDriver.run(Unknown Source)	2378510)	50	-
🏷 Values	09/09/2019 16:08:19	JVM	at ModbusRtuDriver.a(Unknown Source)	2378500	3	49	
🔔 Alarms	09/09/2019 16:08:19	JVM	at _CpDriver.socketErrorManage(Unknown Source)	2378500	5	48	
Summary	09/09/2019 16:08:19	JVM	at java.lang.Exception.(Unknown Source)	237850/	\$	47	
曼 History	09/09/2019 16:08:19	JVM	at Java.lang.Throwable.(Unknown Source)	2378507	2	46	
≓ IO Servers	09/09/2019 16:08:19	JVM	at java.lang.Throwable.(Unknown Source)	237850*	1	45	
Diagnostic	09/09/2019 16:08:19	JVM	Java.Jang.Exception: TCP1: Java.lo.IOException: socket closed or uninitialized	237849!	5	44	
	09/09/2019 16:08:19	JVM	ModbusRtuDriver: java.io.IOException: socket closed or uninitialized	2378475	5	43	
J Logs	09/09/2019 15:39:37	JVM	TCP port TCP1 successfully open	657315		42	
💬 Event Logs	09/09/2019 15:39:37	JVM	(SocketConnection) Connector.open(socket://172.17.70.99:2000	657047		41	
Realtime Logs	09/09/2019 15:39:37	JVM	Serial port COM1 successfully open	657011		40	
Scheduled Actions	09/09/2019 15:39:32	JVM	ModbusRtuDriver: Load Configuration Tag Complete	651591		39	
💎 Status 🔹 💿	09/09/2019 15:39:31	JVM	ModbusRtuDriver: license registered to cp-test-new-firmware	651307		38	
📩 Files Transfer	09/09/2019 15:39:31	JVM	ModbusRtuDriver: license key is valid	651305		37	
Setup o	09/09/2019 15:39:28	JVM	Start Modbus RTU Driver v. 05.01	648066		36	
	09/09/2019 15:39:26	JVM	ModbusRtuDriver: Load Configuration Tag Complete	646226		35	
	09/09/2019 15:39:26	JVM	ModbusRtuDriver: license registered to cp-test-new-firmware	645839		34	
	09/09/2019 15:39:26	JVM	ModbusRtuDriver: license key is valid	645837		33	
	09/09/2019 15:39:22	JVM	EwonUtils V1.03	642022	1	32	
	09/09/2019 15:39:22	JVM	Start Modbus RTU Driver v. 05.01	642013	-	31	
	09/09/2019 15:39:22	JVM	CPeDrivers V5.01 RC	641603	1	30	*
	Autorefresh — Rate:	30 🌲 s	ec.		Dis	splaying 51	logs
@ewon	eWON Name: eWON Fir	mware: 13.3s0 (#	792) S/N: 1822-0177-21 CC	arrent time: 09/09/2019 17:18:07	Status	0	

2.5. License Key

The license file has the extension ".eKey" and must be uploaded in the "/usr/license" directory of the eWON. Every license file is used to enable the protocol to which it refers. Licenses are hardware bounded and cannot be transferred from one eWON to another.

There are two kind of license:

- demo license: all feature and drivers evaluable for 10 minute*
- full license: unlimited time license

*You can restart the eWON device to restart the evaluation period.



2.6. Start and Stop commands

If you need to Stop and Start the *Java Virtual Machine* and thus the **eWon drivers eXtender** open the following link address with your preferred web browser:

STOP:

http://IP-eWon/rcgi.bin/jvmCmd?cmd=stop



START:

http://IP-eWon/rcgi.bin/jvmCmd?cmd=start&runCmd=-heapsize 5M -classpath usr/JavaApp/eXtender.jar -emain eXtender

3 172.17.70.11	5/rcgi.bin/jvmCmd? × +	-		×
$\leftrightarrow \ \ni \ {\tt G}$	🛈 Non sicuro 172.17.70.115/rcgi.bin/jvmCmd?cmd=start&runCmd=-heapsize%205M%20-classpath%20usr/JavaApp/eXtender.jar%20-emain%20eXtender	☆	۲	:
Starting JVM JVM started				



3. TAG's structure

TAGs used by **eWon drivers eXtender** can be divided into three types:

- Type 1: Serial ports configuration TAG
- Type 2: Devices configuration TAG
- Type 3: Variables TAG

For types 1 & 2 the **Description** field is used to store configuration parameters delimited by two star character (**). Every TAG must be defined on the **MEM** I/O server.

For types 1 & 2 the **Type** field must be set to **Integer**.

For types 3 the **Type** field depends on the type of data.

3.1. Serial port or TCP/IP configuration TAG (Type 1)

This TAG contains the configuration parameters of serial port or Tcp/Ip socket.

Below are the steps for proper configuration:

- 1. Create a new TAG with a significant name, for example: **COM0**
- 2. Insert in the **Description** field the configuration parameter of the protocol:
 - <u>Parameter 1</u>: Name of the protocol. (ex. <u>AuroraPort</u> for Aurora Power-One)
 - <u>Separator</u>: "**"
 - <u>Parameter 2</u>: Type of port: <u>Serial</u> for serial port, <u>Tcp</u> for Tcp/Ip socket.
 - <u>Parameter 3</u>: A comma separated list of serial port parameters or Tcp/Ip port parameters.

Parameters for Serial port:

(parameters must be inserted with the following format: Pa1=Value1;Par2=Value2;...)

Parameter	Default	Description						
comm	platform dependent	The logical name of the port.						
baudrate	platform dependent	Fhe speed of the port.						
bitsperchar	8	The number bits per character(7 or 8).						
stopbits	1	The number of stop bits per char(1 or 2)						
parity	none	The parity can be odd, even, or none.						
blocking	on	If on, wait for a full buffer when reading.						
autocts	on	If on, wait for the CTS line to be on before writing. IMPLIES autorts=on (even if not set - or set differently) This option is not used in half duplex mode						
autorts	on	If on, turn on the RTS line when the input buffer is not full. If off, the RTS line is always on. IMPLIES autocts=on (even if not set - or set differently) This option is not used in half duplex mode						
halfduplex	off	If on, turn on the half duplex mode for the serial line This is only valid if the dip switch is set to RS485/422 mode on the device. In this configuration, the device will switch the emitter on only when transmiting data. The transmiter is off for the rest of time and the device is listening to the line. autocts and autorts are not used if halfduplex=on						



reuseport	off	lf If it f	on, ails, the	the e it will o	driver open the p	will ort. In a	try ny case	to e, the s	reuse ettings pa	an ssed ar	open e applied.	port.
keepopened	off	If or WAF is sp oper	n, then RNING: i becified. ned.	when t in any c . The u	the conne ase the cle ser must	ction ob anup fu cleanly	oject is nction close t	closed will clo he co	, the driv se the driv nnection	er will ver. Eve if he v	remain o en if keepo vants to l	pened. opened keep it

Parameters			for			Тср/Ір		socket:
(parameter	must	be	inserted	with	the	following	format:	host:port)

Parameter	Default Value	Description
host	-	host name or IP address
port	-	TCP/IP port nuumber

In the following example we use COM0 to communicate to Aurora Power-One inverter using the Aurora driver with baudrate 19200, 8 data bits, no parity, no blocking and half-duplex enabled.

eWon TAG Name: COMO

eWon	Von TAG								
<pre>wuroraPort**Serial**comm:com0;baudrate=19200;blocking=off;halfduplex=on</pre>									
Configuration example	<u>::</u>								
Identification									
Tag Name:	COM0	Page:	System	-					
Tag Description:	AuroraPort**Serial**cc =off;halfduplex=on	mm:com0;bau	drate=19200;bloc	<u>king</u>					
I/O Server Setup									
Server Name:	MEM	Торіо	: Name:	•					
Address:	СОМО								
Type:	Integer 🔹	D F	orce Read Only						
eWON value	e = IO Server Value * 1		+ 0						

In the following example we use TcpIp to communicate to Aurora Power-One inverter using the Aurora driver connected with host 172.17.70.111 port 2001.



eWon TAG Name: COMO

eWon	TAG	Description:
AuroraPort**Tcp**172.17.70.111:2001		

3.2. Device configuration TAG (Type 2)

This kind of TAG contains the configuration parameters of the device.

Below are the steps for proper configuration:

- 3. Create a new TAG with a significant name, for example: INV1
- 4. Insert in the **Description** field the configuration parameter of the protocol:
 - <u>Parameter1</u>: Name of the "Serial port configuration TAG"
 - <u>Separator</u>: "**"
 - <u>Parameter 2</u>: Device's node address
 - <u>Separator</u>: "**"
 - <u>Parameter 3</u>: Time-Out (default: 10000 ms)
 - <u>Separator</u>: "**"
 - <u>Parameter 4</u>: Device type (required for some protocols)
 - <u>Separator</u>: "**"
 - <u>Parameter 5</u>: Device's unit address (required for some protocols)

Note: Parameters may be driver-dependent.

In the following example we use COM0 to communicate to two Aurora Power-One inverters at node address 2 and 3:

eWon TAG Name:	INV1
eWon TAG Description:	COM0**2
eWon TAG Name:	INV2
eWon TAG Description:	COM0**3

Configuration example:



Identification						
Tag Name:	INV1	Page:	System	•		
Tag Description:	<u>COM0</u> **2					
I/O Server Setup						
Server Name:	MEM	Торі	: Name:	•		
Address:	INV1					
Туре:	Integer 🔻	F	orce Read Only			
eWON value = IO Server Value * 1 + 0						

3.3. Variable TAG (Type 3)

This kind of TAG contains the values read from the devices. The name of the TAG implies the measure to read and is composed of two references:

- Prefix: Name of the "Device configuration TAG"
- Separator: "_"
- Suffix: Name of the measure to read.

In the following example we define a DWord TAG used to read the TotalEnergy measure from inverter defined in the device configuration TAG INV1:

<u>eWon TAG Name:</u> INV1_TotalEnergy

Nota: The suffix is driver-dependent and can be customized.



Configuration example:

Identification				
Tag Name:	INV1_TotalEnergy	Page:	Default	•
Tag Description:	Total Energy (total lifetin	me)		
I/O Server Setup				
Server Name:	MEM	Торіо	Name:	•
Address:	INV1_TotalEnergy			
Туре:	Integer 🔹	🗌 F	orce Read Only	

1

0

+

eWON value = IO Server Value *



3.4. TAG hierarchy

Each TAG used by **eWon drivers eXtender** are related to each other according to a tree structure. The root node is a "Serial port configuration TAG". A "Serial port configuration TAG" can refer to one or mode "Device configuration TAG". A "Device configuration TAG" can refer to one or mode "Variable TAG".



eWon drivers eXtender detect as "Serial port configuration TAG" each TAG with a proper configured Description field and with a valid driver name as first parameter (es: AuroraSerialPort).

eWon drivers eXtender detect as "Device configuration TAG" each TAG with a proper configured Description field and with a valid "Serial port configuration TAG" name as first parameter (es: COM0).

eWon drivers eXtender detect as "Variable TAG" each TAG that starts with the name of one "Device configuration TAG" (es: INV1_TotalEnergy).



3.5. State, Commands and Debug

eWon drivers eXtender allow the user to send commands to the driver, read the state of the devices and read some diagnostic information.

3.5.1. Serial port configuration TAG

The value of a "Serial port configuration TAG" reports the status of the Serial port:

<u>Status:</u>

- 0 Port free
- 1 Port in use by eWon drivers eXtender

There are two diagnostic TAG for each "Serial port configuration TAG" automatically created by **eWon drivers eXtender** to analyze the number of packets sent and received.

If the "Serial port configuration TAG" name is COM0, the two diagnostic TAG will be:

- COM0_SendPacket: number of packets sent by eWon drivers eXtender
- COM0_RecPacket: number of valid packets received by eWon drivers eXtender

3.5.2. Device configuration TAG

The value of a "Device configuration TAG" reports the status of the Device:

<u>Status:</u>

- 0 Device offline
- 1 Device online

3.5.3. Command TAG

CPeDriverStatus: From this TAG you can read the driver's status or write a command to modify it.

<u>Status:</u>

- **0** Driver is loading
- **1** Driver is running
- 2 Driver is stopped (the serial port is free to use)

Command:

- -1 Reload the configuration and start the driver
- **0** Start the driver without reloading the configuration
- 2 Stop the driver

CPdebug: This TAG defines the log level of **eWon drivers eXtender**'s debug messages. Log messages are visible in the eWON's <u>*Real Time Log*</u> web page.

Status:

- 0 Debug log disabled
- 1 Debug log enabled
- 2 Debug log enabled and serial communication log enabled



Command:

0 Disable debug log

- 1 Enable debug log
- 2 Enable debug log and serial communication log

CPeWritingEnable: This command TAG is managed only for **eWon drivers eXtender** version 4.0 and above. From this TAG you can read the global writing flag status or write a command to modify it.

<u>Status:</u>	0	Global writing flag is disabled (no driver will write tag values to field, even if capable)
	1	Global writing flag is enabled (all capable drivers will write tag values to field)
<u>Command:</u>	0	Disable global writing flag (no driver will write tag values to field, even if capable)
	1	Enable global writing flag (all capable drivers will write tag values to field)

If you want to enable the global writing flag at eWON startup, you can add the following BASIC instruction to the Init Section in the Script Setup:

CPeWritingEnable@ = 1



Init Section example:

Flexy *	> Setup > > BASIC IDE	Logged in as 🛓 Adm 👩 🕞 🎽 Wizards
Q Filter tree	Basic IDE	
Home	File Edit Window	Search Run Debug
🧭 Summary	× 1 🛓 🛓 🖻	C ↓
Tags	outline	X 1 Init Section
📎 Values	¶ 💊 @	+ 4 CPeWritingEnable@ = 1
🔔 Alarms	• ¶ Init Section	6 7
≓ IO Servers	•	8
Diagnostic		10
🔊 Logs	•	12
Ctatur	•	14
V Status	Ŭ	15
📩 Files Transfer		17
		18
Setup		19
¥2		20
Wizards		22
		23
		24

IMPORTANT

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- d) you modify and save any tag's parameter (description, address, etc.) while **eWon drivers eXtender** is running <u>and</u>
- e) you are using a driver that is able to write the tag value to field and
- f) the global writing flag is enabled

then this will cause the driver to write a "zero" value to the tag's value and so to the field.

In order to avoid this behavior you have two options:

- 3. Disable the global writing flag during the tag setup phase. Please refer to chapter 3.5.3 Command TAG.
- 4. Stop **eWon drivers eXtender** during the tag setup phase. Please refer to chapters 2.6 Start and Stop commands and 3.5.3 Command TAG.

Drivers capable of writing tag values to field are available for **eWon drivers eXtender** version 4.0 and above. Please refer to the specific driver documentation to know if it is capable of writing tag values to field.



Command tags example:

Flexy 🔺	Tags 🗲 🥎 Values								Logged in as 🛦 Adm 👩 🚱 🎽	Wizards
Q Filter tree	Values									
Home		Q, Filt	er			🕫 🖋 Edit Value 🎟 Historical Logging Table				
🧭 Summary	MODE	۵	0	~	B	Name	ø	Value	Tag description	
Tags	VIEW MODE SETTINGS					INV1_Psaturation		0	Power Saturation limit (Der.)	1
📎 Values	Autosave tag value					INV1_BringRef		0	Bulk Ring Reference	
🔔 Alarms	• Auto edit the next tag					INV1_Vpanel		0	Vpanel micro	
≓ IO Servers	•					INV1_TodayEnergy		0	Daily Energy	
Diagnostic	PAGES					INV1_WeekEnergy		0	Weekly Energy	
D Logs	•					INV1_MonthEnergy		0	Monthly Energy	
👽 Status	System					INV1_YearEnergy		0	Yearly Energy	
📩 Files Transfer	System					INV1_TotalEnergy		0	Total Energy (total lifetime)	
Setup	TAG GROUPS					INV1_PartialEnergy		0	Partial Energy (cumulated since reset)	
₩izards	Group A Group C					INV1_GlobalState		0	Global State	
	Group B Group D					INV1_InputState1		0	DC/DC Channel 1 State	
						INV1_InputState2		0	DC/DC Channel 2 State	
- Users						INV1_OutputState		0	Inverter State	
System						INV1_Alarm		0	Alarm State	
Main						COM0		0	AuroraPort**Serial**comm:com0;baudrate=19200;blocking=off;halfduplex=on	
Communication	•					INV1		0	COM0**2	
Storage	•					CPdebug		0		
😃 Reboot						COM0_SendPacket		0		
						COM0_RecPacket		0		
						CPeDriverStatus		0		
						CPeWritingEnable		0		¥
		🗹 Aut	torefres	h — Ra	ite: 1	\$ sec.			Displayi	ng 69 tags
ewon	eWON Name: eWON Firms	ware: 13.3	3s0 (#792) s/	'N: 1822-	1177-21			Current time: 09/09/2019 17:47:21 Status 🥙 👏	



4. TAG Customization

eWon drivers eXtender uses a CVS configuration file to know what data put to which tag. This file is contained in the eWON's directory: **"/usr/Config**". You can modify the file to use custom "Variable TAG" suffix.

Example:

If we need to change TAG's name from INV1_TotalEnergy to INV1_Energy:

- 0 Open the driver's configuration file "/usr/Config/PowerOne.csv"
- 1 Find on the first column the suffix **TotalEnegy** and rename it to **Energy**
- 2 Save the file
- **3** Rename, using the eWON web interface, the name of the **INV1_TotalEnergy** TAG to **INV1_Energy**
- 4 Reload the configuration or reboot the eWON

5. Using the MODBUS gateway

All Tags read with eWon Drivers eXtender are compatible with eWON's native MODBUS gateway.