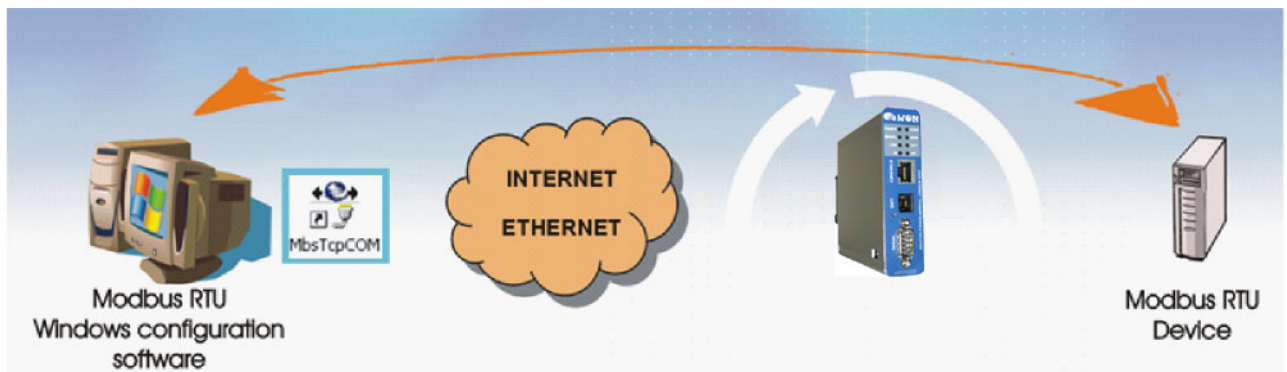


## 1 Overview

This document describes the usage of **MbsTcpCOM**, a free ACT'L software which is compatible with the eWON and allows to communicate from a Windows application designed for a Modbus RTU device to that device through TCP/IP.

Using MbsTcpCOM, the standard software can connect to the Modbus RTU device (connected to the eWON) through any TCP/IP network, including Internet.



How does it work?

The **MbsTcpCOM** software is installed under Windows (NT, 2000 or XP) on the same workstation where the Modbus RTU communication program is installed (Modbus RTU only works on a serial communication port).

The MbsTcpCOM software is a kind of driver that created a virtual COM port (COM3 or COM4...).

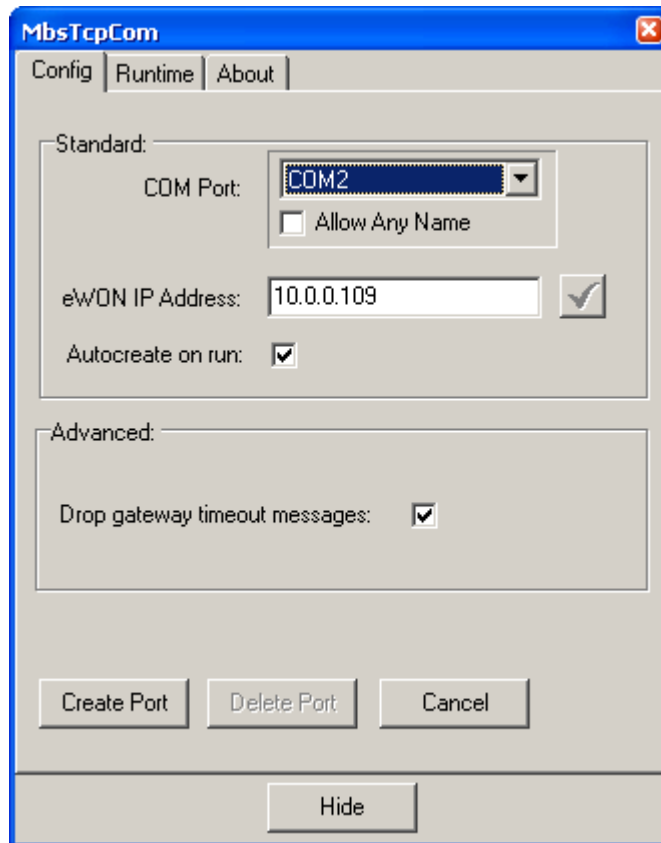
The Modbus RTU device is connected to the eWON's RS485 port.

The MbsTcpCOM software is configured with the TCP/IP address of the eWON.

The standard Modbus RTU communication software designed for the ModbusRTU device can be used with the virtual serial port created.

## 2 MbsTcpCOM software execution

When running the MbsTcpCOM software, the following window will appear:



**Table 1:**

The COM port number can be selected in a list of port that currently do not exist.

The eWON IP address must be entered, *it can be changed at any time without restarting the driver and WITHOUT deleting and recreating the port.*

Select **Autocreate on run** if the port defined has to be created as soon as the MbsTcpCOM is started.

The **Advanced** option should normally be left to defaults values, ie: Log disabled & Drop timeouts enabled.

Then click **Create Port**, you should now have an additional COM port. This port can be selected for communication in Modbus RTU.

Any Modbus RTU frame arriving to the port is converted to a ModbusTCP frame and routed to the eWON, the eWON will then act as a gateway and forward the request to the actual device, and then the response of the device back to the Windows application.

## 3 Hints and troubleshooting

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Some applications do not detect the serial ports but only propose ports COM1 to COM4, you should use MbsTcpCOM and create a port within that range.

The communication path is longer because of the repetition of message by the eWON and the path through TCP/IP (including Internet in some applications), this means that - if possible - you should slightly increase the communication timeout between your application and the device. This of course depends on the possibility to increase the timeouts in your specific software, otherwise, use the defaults values.

## 4 Connect to your device through INTERNET

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The eWON can be used for INTERNET remote communication. After callback, or upon alarm for example you can receive the eWON's IP address by EMail or by other means (<http://no-ip.com>). As soon as you know this address, enter it in the MbsTcpCOM main window:

eWON IP Address:  

... And then validate. The new address is effective immediately, you can now use your standard ModbusRTU software to connect through internet to your device.

See also Application Note AN20: "Remote management of the TWIDO PLC".