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IP/GSM Restarter



1. General description

The IP GSM restarter is profesional instrument for automatic restart of connected devices. Restarter has two independent Ethernet interfaces and separate power supply for each device. In special case the IP GSM restarter can be used as two separated restarters.

Ethernet interface
Due to advantage of two independent ethernet interfaces, restarter can be used to control two connected devices. Main advantage of this construction is taht restarter can act as HUB (see below) and connect both of the ethernet interfaces only by one ethernet cable, which is need for configuration in most cases.

GSM gate
The IP/GSM restarter has the USB conector where you can link a GSM mobile phone. You have to use the special cable provided by Mikrovlny s.r.o. Restarter support this GSM phones:

Siemens (3V)	*Ericsson (5V)*	*Alcatel (3.6V)*
C10, C35, C45, C55	T10s	501
S10, S25, S35	T20e (3V)	
M35, M50, MT50	T18s	
A60		

When the GSM device is connected, GSM led diode is light on and indicate successful inicialization of the GSM device. For all required settings you can use our configuration program. For right function you have to have activated SIM card in your GSM device, other settings of the GSM mobile phone isn't necessary. Restarter's power supply is connected to the GSM conector, but you can't use power source which is included to feeding the GSM device. If you want supply GSM device from the IP/GSM restarter, you have to use special power source which has parameters compatibile with your GSM device. The GSM cable you can buy separately.

Power source for IP/GSM restarter
Original power source is included in each package, but it is designated olny for feeding the IP/GSM restartrer. **With original power source you can't supply restarter and GSM together!**

2. Configuration

After successful instalation you can press **Scan** button (fig. 1).

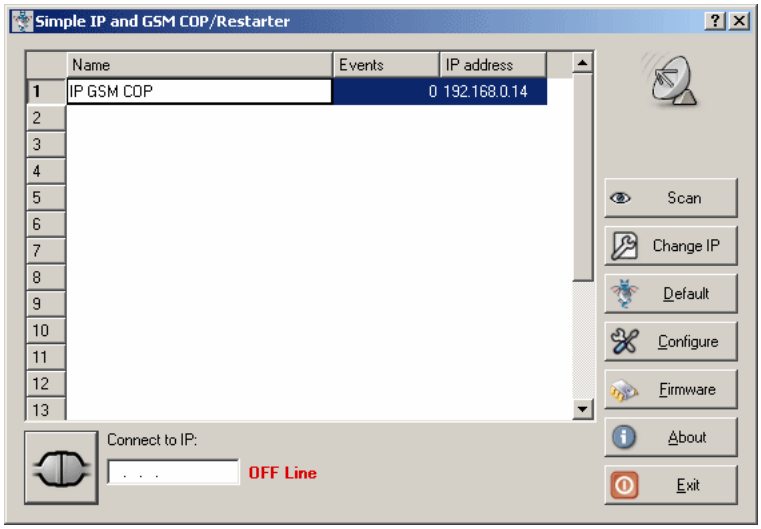

Figure 1 - The IP/GSM restarter is found

In column **Events** is shown total count of restarts. This counter is cleared when you store changes in **Configure** menu by press **Apply** button. If the IP/GSM restarter is found, you can change IP address to address which is in the same network (fig. 2) like computer used for configuration. If restarter is located beyond router, you have to enter correct IP address of restarter into **Connect to IP** box and press button on the left side of this box.

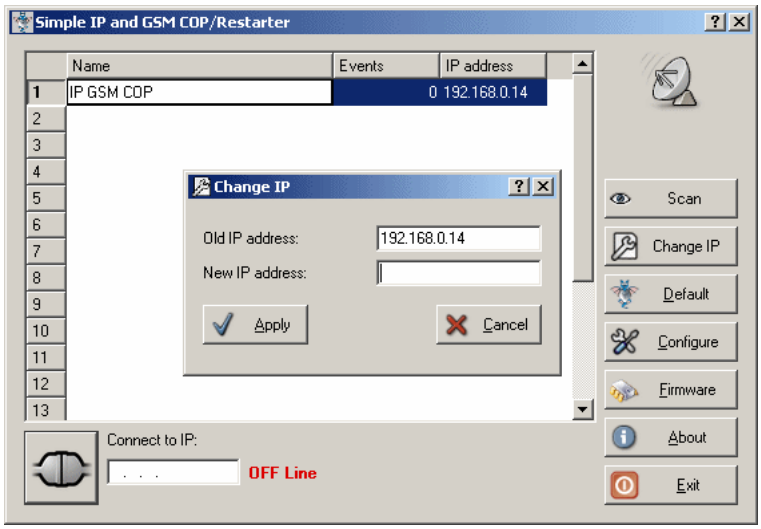

Figure 2 - Change IP address

When the IP/GSM restarter is found, you can press **Configure** button and enter default password "public". After success login you can see the configuration window (fig. 3) where you can select new configuration of the IP/GSM restarter.

Menu Network

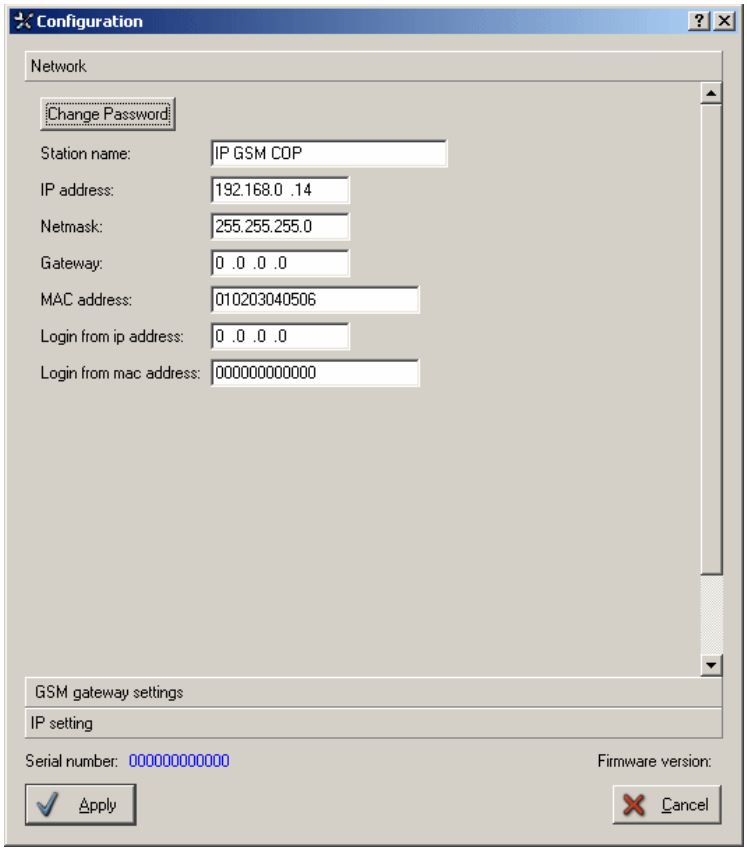

Figure 3 - Network settings

Change password	you can change password there
Station name	name for identification in the network
IP address/Netmask	IP address/mask for restarter
Gateway	if isn't defined, test Ping/TCP-SYN packet is sent directly to the ethernet interface, in other case test packet is sent through this gateway
MAC address	user defined MAC address, this addresses must be different when you use more than one device
Login from IP	enable restarter's control only from this IP
Login from MAC	enable restarter's control only from this MAC

GSM gateway settings

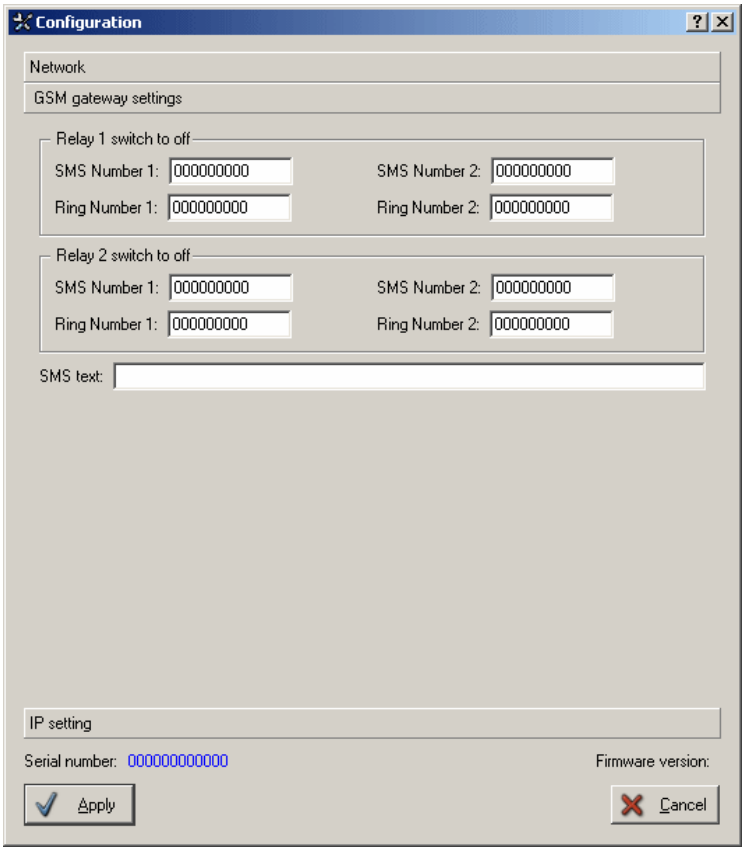

Figure 4 - GSM gateway settings

Relay 1 switch off is used for switch 1 conrol. You can enter two phone numbers for incoming SMS and two numbers for ringing on. Only from this numbers you can control the IP/GSM restarter. If you want use only one phone number, you have to enter it in both boxes. If you leave at least one box clear, restarter can be controled from any phone number.

Relay 2 switch to off the same function like switch 1.

SMS text has maximal length 19 characters. When text is entered, you can control the restarter only by SMS with the same text. Text is used for both switches. If you ring on the restarter, restarter will hang up and you can hear the busy tone, if request accepted.

IP setting

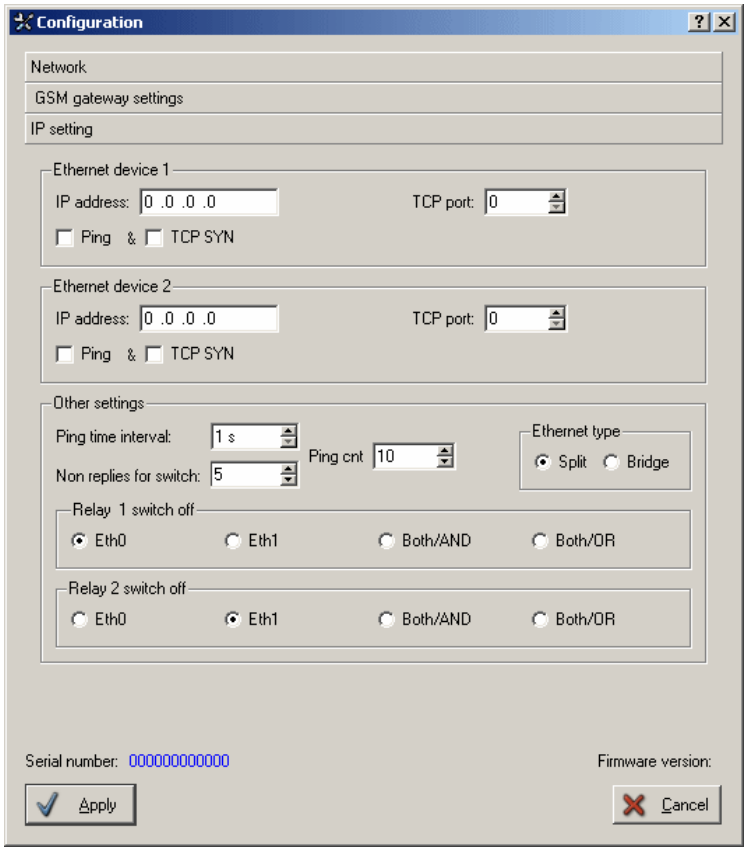

Figure 5 - IP setting

Ethernet device 1 and 2

IP addresss IP address which will be tested, 0 – no testing

TCP port TCP port which will be tested, 0 – no testing

Ping, TCP SYN Selection depend on user. In most cases ping packet is sufficient, but some devices can answer to ping request but TCP comunication is broken. Some times is good idea to use the TCP-SYN testing. This choices can be selected together or separately. If you use both packet type, AND function is used (both of contitions have to be executed)

Other settings

Ping time interval time interval for test packet sending, test is started about 1 minute after restarter is turned on

Ping cnt total test count after processing is started

Non replies for switch number of non answered packets.

For example on figure 5 you can see if five of ten testing packet has no answer, switch 1 is disconected for 3 seconds. Next test is started after 1 minute.

Next item in **Other settings** box is table, where you can define which switch is disconnected after test failed on Eth1 or Eth2 interface.

Very important is **Ethernet type** choice, the default setting is **Split** - both of the ethernet interfaces are independent. If you select **Bridge**, you can use the ethernet interfaces like general UTP 10 Mbit link.

Factory settings can be set by software and configuration password or by pressing **DEF** button. When all of the LED diodes are flashing on, press **DEF** button for two times. After device's restart factory values are set. Every product from Mikrovlny s.r.o. has this function.

