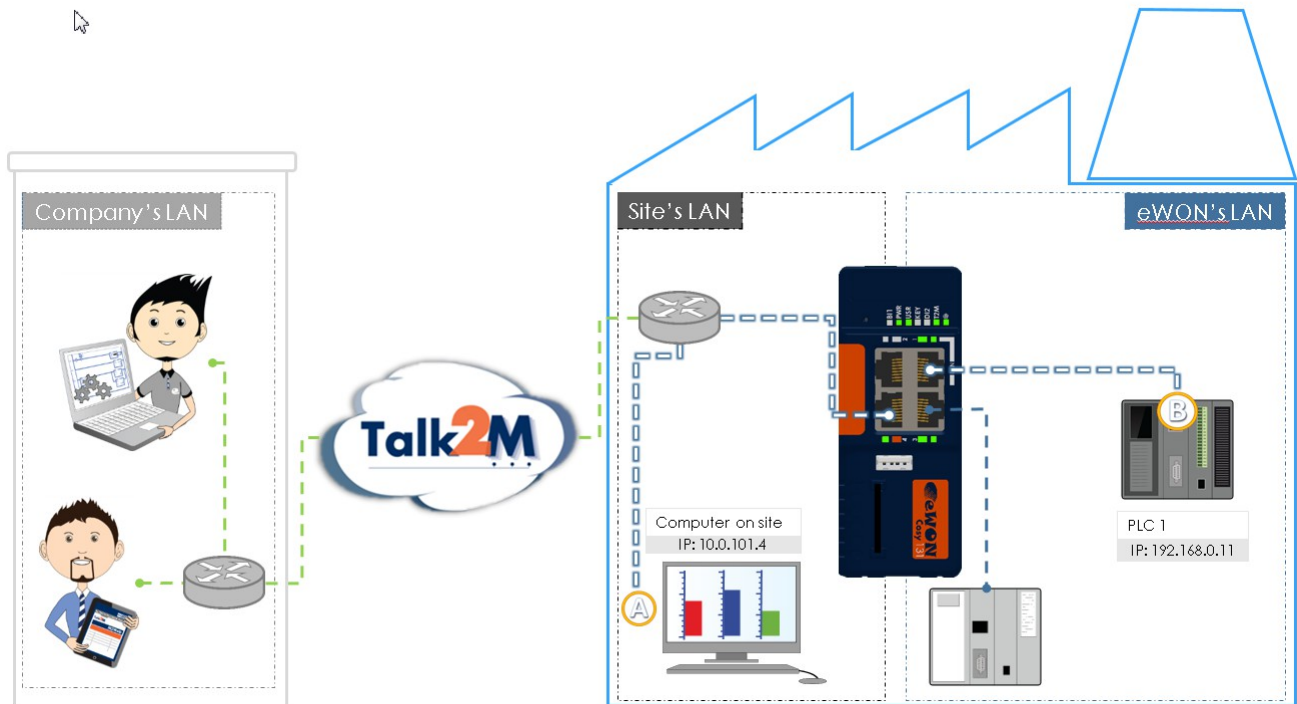


How to reach a device behind the eWON Cosy 131 from a PC on the remote site



Initial situation:

You already have an existing remote access to your machine LAN (eWON LAN) using eWON Cosy 131 and our Talk2M solution.

Request:

On the remote site, a PC (device A on the picture) needs to connect to one of your machines (device B on the picture).

Solution:

Keep in mind that on the local PC, you can simply use eCatcher or M2Web to connect to the machine LAN. Like this you benefit of the firewall and logging features (connection reports, etc.) of Talk2M.

However, if the local PC needs a direct access to the device on the Machine LAN, then you can activate inside the eWON the NAT 1:1 feature.

This feature will create a supplementary IP address on the Site LAN on which the machine will become accessible.

1. How to enable NAT 1:1 on eWON Cosy

The NAT 1:1 feature exists on the eWON Cosy 131 since firmware version 10.0.

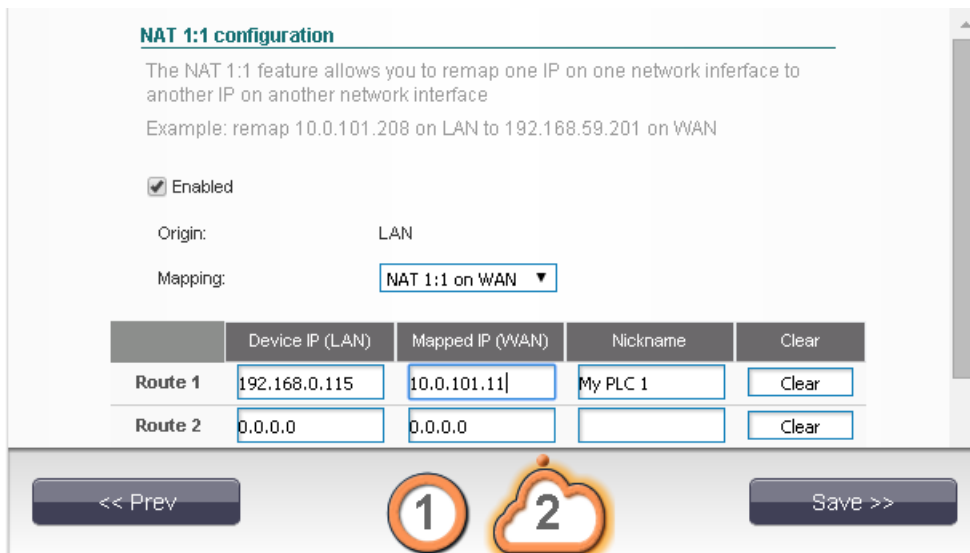
If needed you can update your Cosy device using the eBuddy companion tool.
For more details about firmware upgrade, refer to our [Support website](#).

1.1. Launch the Gateway wizard

Settings > Gateway

The first page of the Gateway wizard allows you to enable or disable the USB gateway.
The second wizard page will allow you to configure the NAT 1:1 feature:

- 1) Enable the NAT 1:1 option



NAT 1:1 configuration

The NAT 1:1 feature allows you to remap one IP on one network interface to another IP on another network interface
Example: remap 10.0.101.208 on LAN to 192.168.59.201 on WAN

Enabled

Origin: LAN

Mapping: NAT 1:1 on WAN ▼

	Device IP (LAN)	Mapped IP (WAN)	Nickname	Clear
Route 1	192.168.0.115	10.0.101.11	My PLC 1	Clear
Route 2	0.0.0.0	0.0.0.0		Clear

<< Prev 1 2 Save >>

- 2) Choose the mapping option "NAT 1:1 on WAN" and encode a new entry inside the mapping table.

In our example: the Ethernet device on eWON LAN side with IP address 192.168.0.115, will become reachable on the eWON WAN side using IP address: 10.0.101.11

- 3) Click Save to finish the NAT 1:1 configuration.

- Warning -

Check with your IT manager which IP addresses are available and can be used (and reserved!) for the NAT 1:1 feature of the eWON. As these IP addresses are not assigned by the DHCP server, it might come in conflict with other (future) devices on site's LAN.

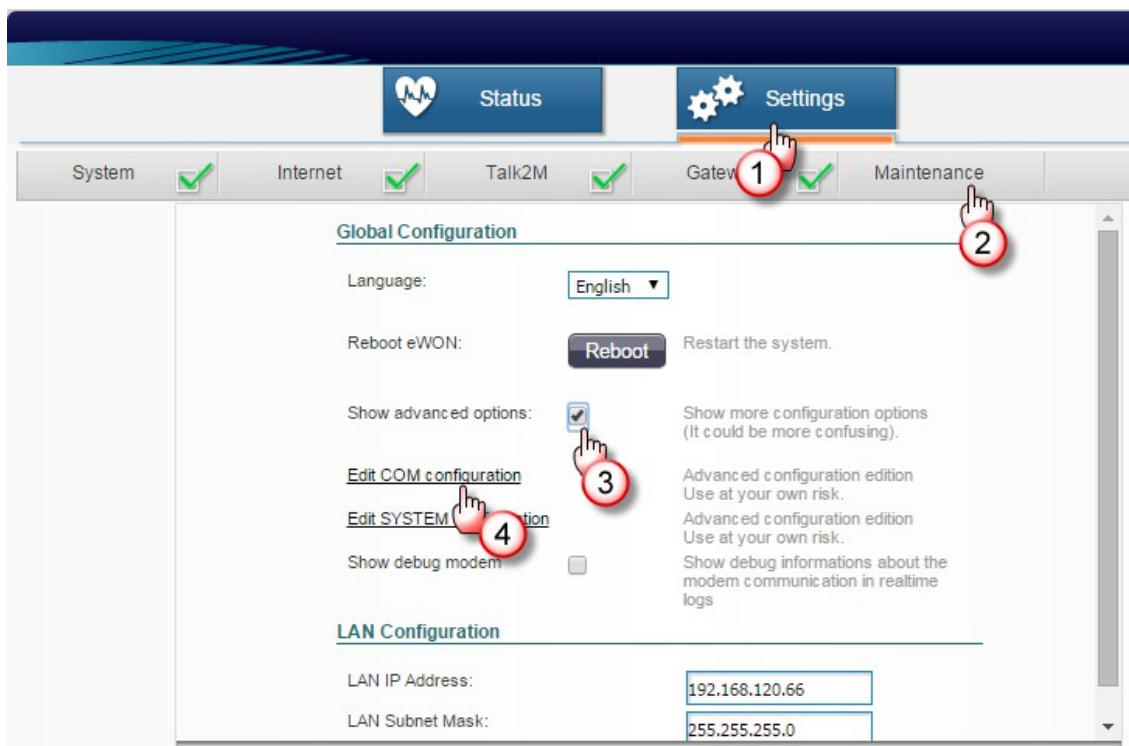
1.2. Adapt the network security settings of the eWON

To allow the Nat 1:1 feature on the eWON, its security settings must be adapted.

We need to allow access to the eWON's WAN side, which by default is blocked on an eWON configured for a Talk2M connection.

To adapt the network security settings on the Cosy proceed as follows:

- 1) Open the Maintenance menu



- 2) Select the "show advanced options" and click on the "Edit COM configuration" link

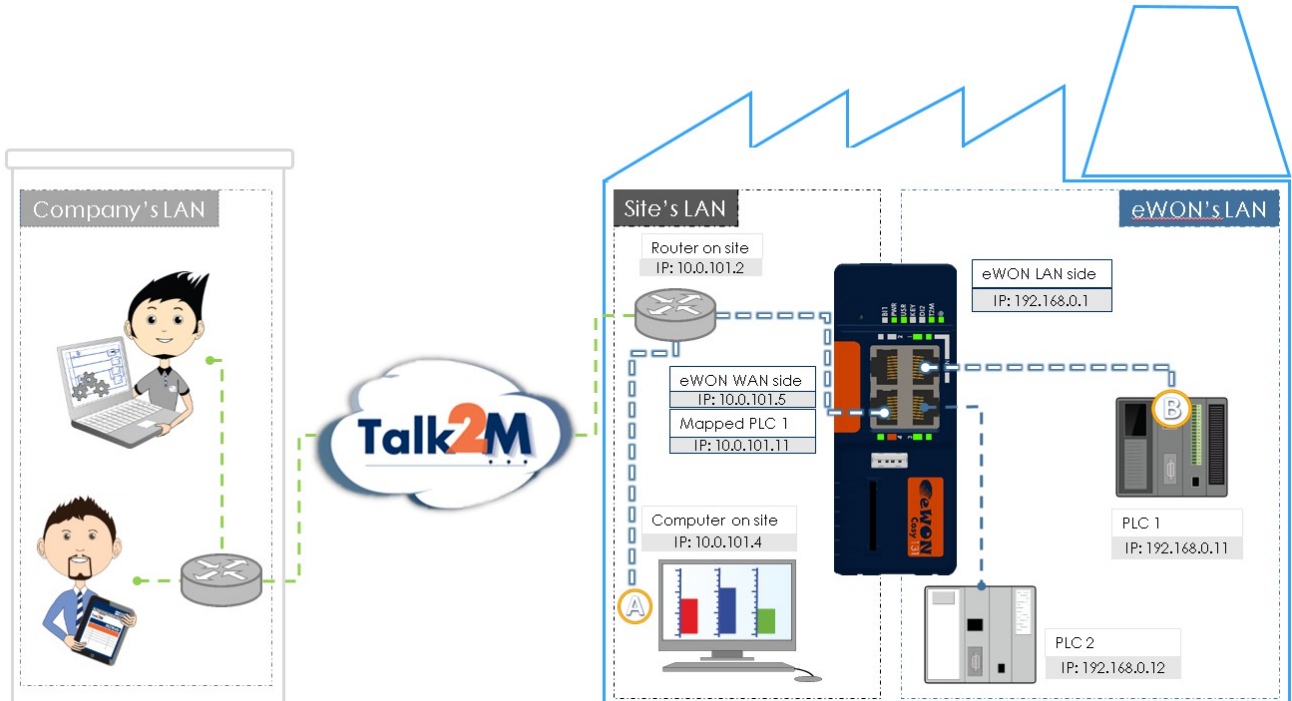
- 3) Use the search button on top of the maintenance window to search following parameters and to set its value:

- FwrdToWAN : 1 (1 = WAN IP forwarding allowed)
- WANlffProt : 2 (2 = Wan protection level : Allow all)

- 4) Reboot the eWON Cosy.

A reboot button is available on the Maintenance web page.

2. Detailed connection example



The Talk2M user can access the PLC using the eCatcher or M2Web connection.

From the PC on the remote site LAN (device A on our example), the PLC (device B in our example) can be accessed using IP address 10.0.101.11.

Because we configured the NAT 1:1 table to map these addresses:

NAT 1:1 configuration

The NAT 1:1 feature allows you to remap one IP on one network interface to another IP on another network interface

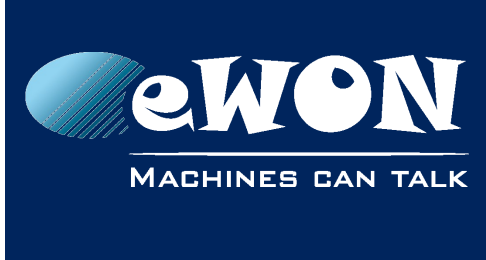
Example: remap 10.0.101.208 on LAN to 192.168.59.201 on WAN

Enabled

Origin: LAN

Mapping: NAT 1:1 on WAN ▼

	Device IP (LAN)	Mapped IP (WAN)	Nickname	Clear
Route 1	192.168.0.11	10.0.101.11	PLC 1	Clear
Route 2	0.0.0.0	0.0.0.0		Clear



Revision

Revision History

Revision Level	Date	Description
1.0	04/09/2015	Original Document

Document build number: 17

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