



Connect to a device plugged in the Ewon Cosy 131

Using a computer located on remote site

1 Preface

1.1 About This Document

The present document explains how to reach a device behind the from a PC on the remote site.

For additional related documentation and file downloads, please visit www.ewon.biz/support.

1.2 Document History

Version	Date	Description
1.0	2015-09-04	First release
1.1	2019-19-01	Layout update

1.3 Related Documents

Document	Author	Document ID
N/A	N/A	N/A

1.4 Trademark Information

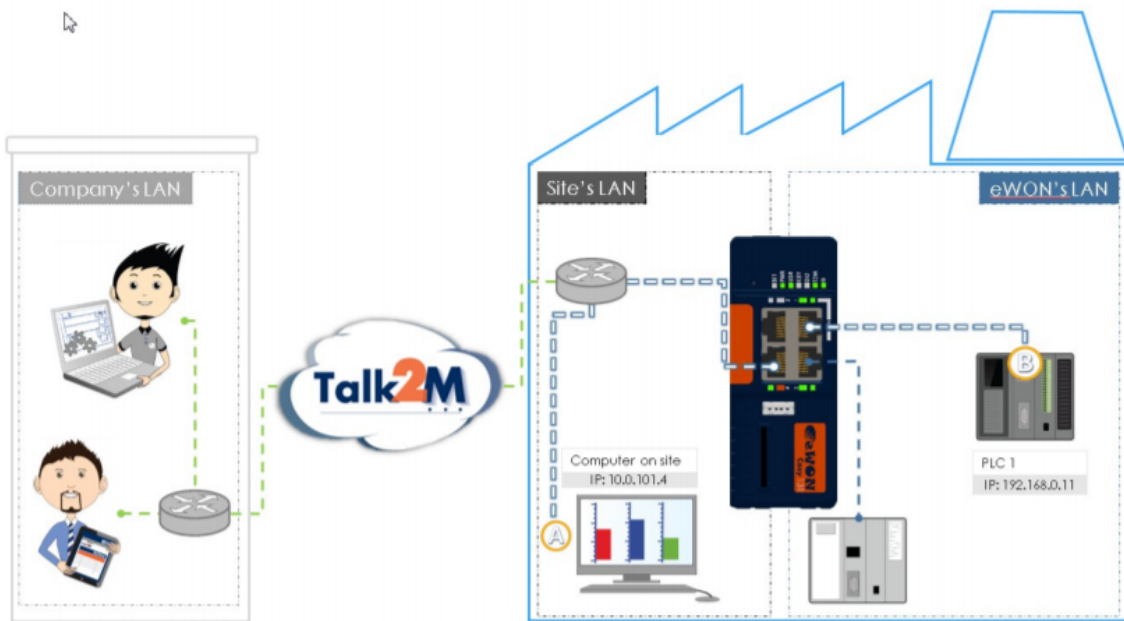
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2 Use case

Initial situation: there is an existing remote access to the machine LAN (Ewon LAN) using and the Talk2M solution.

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

Solution: use eCatcher or M2Web to connect to the machine LAN to 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, activate the NAT 1:1 in the . This feature creates a supplementary IP address on the Site's LAN enabling access to the machine.



2.1 How to enable NAT 1:1 on Ewon Cosy 131

Taking the example before, the NAT 1:1 shows the way to the Ethernet device (PLC1) through Ewon LAN side (IP address 192.168.0.115) to reach the 10.0.101.11 (Site's LAN), steps shown below:

- click on System
- click on Communication
- click on Routing
- click on Enable
- set the IP addresses on
- click on Update

The screenshot shows the 'Routing setup' page for 'NAT 1:1'. The interface is in a dark theme. The left sidebar contains navigation options: Home, Diagnostic, Setup, and Reboot. The 'Setup' section is expanded, showing 'System' (1), 'Communication' (2), and 'Storage'. Under 'Communication', 'Routing' is selected (3). The main area shows the 'NAT 1:1' configuration. A dropdown menu is set to 'NAT 1:1 on WAN' (4). Below this is a table with columns: Device IP (LAN), Mapped IP (WAN), Nickname, and Clear. The first row (Route 1) has '192.168.0.115' in the Device IP field (5) and '10.0.101.11' in the Mapped IP field. The Nickname is 'My PLC1'. Below the table is an 'Update' button (6). A warning message is displayed on the right side of the table.

	Device IP (LAN)	Mapped IP (WAN)	Nickname	Clear
Route 1	192.168.0.115	10.0.101.11	My PLC1	Clear
Route 2	0.0.0.0	0.0.0.0		Clear
Route 3	0.0.0.0	0.0.0.0		Clear
Route 4	0.0.0.0	0.0.0.0		Clear
Route 5	0.0.0.0	0.0.0.0		Clear
Route 6	0.0.0.0	0.0.0.0		Clear
Route 7	0.0.0.0	0.0.0.0		Clear

Example: publish your PLC with IP 10.0.101.208 (LAN) on IP 192.168.59.201 (WAN)



WARNING

Check with the IT department what IP addresses are available and can be used for the NAT 1:1 feature. As these IP addresses are not assigned by the DHCP server, it might come in conflict with other devices on site's LAN.

2.2 How to adapt the network security settings of the Ewon Cosy 131

To allow the Nat 1:1 feature on the Ewon, the security settings must be adapted as shown below:

- click on System
- click on Storage
- click on Edit COM cfg
- set the WANItfProt
- set the FwrnToWAN
- click on Save
- restart the Ewon Cosy 131

Name	Value
WANItfProt	1 → 2
WANCnx	2
WANPubIP	0
WANRepubInterval	0
WANPermCnx	1
WANPxyMode	0
WANPxyAddr	
WANPxyUsr	
WANPxyPass	#_1_//8=
WANPxyPort	8080
FwrnToWAN	0 → 1
LANWANConfig	8
WANFbckHostNamesToCheck	tcp://device.api.talk2m.com:443
WANFbckMaxCnxRetries	3
WANFbckMaxDuration	60
WANFbckMinInterval	75

WANItfProt	2 = Allow all
FwrnToWAN	1 = WAN IP forwarding allowed

! keep in mind, the security setting are taking in to account once the Ewon Cosy 131 is restarted.

3 Example

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

- PC on the remote site's LAN (A)
- PLC Ewon 's LAN (B)

Device IP (LAN)	Mapped IP (WAN)	Nickname
192.168.0.11	10.0.101.11	PLC 1 (B)

