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

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>1.0</td>
<td>2015-09-04</td>
<td>First release</td>
</tr>
<tr>
<td>1.1</td>
<td>2019-09-01</td>
<td>Layout update</td>
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1.3 Related Documents

<table>
<thead>
<tr>
<th>Document</th>
<th>Author</th>
<th>Document ID</th>
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<tbody>
<tr>
<td>N/A</td>
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1.4 Trademark Information
Ewon® is a registered trademark of HMS Industrial Networks SA. All other trademarks mentioned in this document are the property of their respective holders.
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.

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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

**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 FwrdToWAN
- click on Save
- restart the Ewon Cosy 131

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>WANItfProt</td>
<td>2 = Allow all</td>
</tr>
<tr>
<td>FwrdToWAN</td>
<td>1 = WAN IP forwarding allowed</td>
</tr>
</tbody>
</table>

Keep in mind, the security settings are taking into 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)

<table>
<thead>
<tr>
<th>Device IP (LAN)</th>
<th>Mapped IP (WAN)</th>
<th>Nickname</th>
</tr>
</thead>
<tbody>
<tr>
<td>192.168.0.11</td>
<td>10.0.101.11</td>
<td>PLC 1 (B)</td>
</tr>
</tbody>
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