Anybus Wireless Bolt as Access Point
To the eWON LAN Network
1 Preface

1.1 About This Document

This document details the configuration of an Anybus Bolt device as a Wi-Fi access point on the LAN side of your Ewon device.

*This document concerns the eWON Cosy 131 and eWON Flexy only.*

For additional related documentation and file downloads, please visit [www.ewon.biz/support](http://www.ewon.biz/support).

1.2 Document History

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>1.0</td>
<td>2018-09-06</td>
<td>First release</td>
</tr>
<tr>
<td>1.1</td>
<td>2019-03-01</td>
<td>Changed: View, p. 5</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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</thead>
<tbody>
<tr>
<td>comcfg.txt</td>
<td>HMS</td>
<td>KB-0050-00</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 Introduction

As of firmware version 13.1s0, the Ewon device can be combined with an AWB [Anybus Wireless Bridge/Bolt]. This AWB device will then acts as a Wi-Fi access point on the LAN network of the Ewon.

The following AWB device can be used to perform the combination:

- Anybus Wireless Bolt, running firmware 1.3.9 or higher.
- Anybus Wireless Bridge, running firmware 1.3.9 or higher

The aim of the combination between the Ewon and the AWB is to allow a wireless connection to the LAN devices plugged in the Ewon, regardless of the protocol (broadcast, unicast, HTTP, TCP, ...).

2.1 Network Infrastructure

A typical use of the Ewon with a AWB would be the following one:

- Connected to the LAN side of the Ewon:
  - An AWB
  - An Ethernet device: a PLC, an HMI, ...
- Connected on the WAN side of the Ewon: a cable allowing Internet connection (company network).
- Devices (computers, mobiles, ...) are connected to the AWB through Wi-Fi. These devices automatically receive an IP address from the AWB DHCP server.

Based on this structure, the computers/mobiles can reach the Ewon, the PLC/HMI or any other LAN devices connected to the LAN side of the Ewon.
Fig. 1  Typical Use of the eWON combined with a AWB
3 Configuration

To configure the AWB, go to: **Setup > System > Main > Accessories.**

The configuration of the AWB is possible only if an AWB is detected by the Ewon.

> If you don’t see your AWB, check the wiring of your AWB (Ethernet on the Ewon LAN side, the power, ...) and then click on “Scan LAN for Bolt/AWB devices” button.

![AWB Configuration Interface](image)

The following configuration wizard is related to Anybus® Wireless Bolt and Anybus® Wireless Bridge II.

After you complete this wizard, you can:
- Wirelessly connect to any device on the Cosy LAN
- Access your Cosy or visualize custom pages
- Use your preferred mobile App to access your HMI with your tablet or smartphone

**3.1 View**

The bolt configuration page displays 4 options:

<table>
<thead>
<tr>
<th>Bolt/AWB detection</th>
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<tbody>
<tr>
<td><strong>Control</strong></td>
</tr>
<tr>
<td>Scan LAN for Bolt/AWB devices</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Bolt/AWB generic configuration</th>
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</thead>
<tbody>
<tr>
<td><strong>Control</strong></td>
</tr>
<tr>
<td>Enable Bolt/AWB configuration</td>
</tr>
<tr>
<td>SSID</td>
</tr>
<tr>
<td>Password</td>
</tr>
</tbody>
</table>

The hidden & auto-set parameters of the simplified view are:
• **Security**: is set to “WPA/WPA2 PSK”.
• **DHCP server**: is set to “DHCP server on Bolt”.
• **Bolt LAN IP**: is set automatically (auto IP address).
• **Hostname**: is named based on the following pattern: [SSID][Incremented Number].

The “auto IP address” set for the “Bolt LAN IP” is generated based on the following method:

1. There is a check of the LAN IP address of the Ewon. E.g.: 10.2.0.155 (255.255.0.0)
2. There is a ARP scan of the network range. E.g.: [10.2.0.0 -> 10.2.0.255]
3. Based on the ARP scan, the DHCP server provides IP addresses that were not responding (and so were not used).