ENERGY INDUSTRIES

ABB Wireless Industrial Network
AWIN GW100
Release Notes
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1 About This Release Note

This release note describes the new functionalities, the fixed problems, and the known problems in the AWIN GW100 firmware revision 1.5-0.

1.1 How Firmware works in AWIN GW100 WirelessHART Gateway?

AWIN GW100 WirelessHART gateway is delivered with the released firmware. The firmware includes both WirelessHART gateway functionalities and the built-in webserver. Therefore, the capability of the AWIN GW100 is based on the firmware version it is running.

It is possible to upgrade the firmware on the AWIN GW100 unit using the device’s built-in webserver.

1.2 Release Notes Conventions

Conventions to be used are listed below:

- The words in proper names of screen elements (for example, the title in the title bar of a window, the label for a field of a dialog box) are initially capitalized.

- The names of the keyboard keys are boldfaced.
  - Initial capital letters are used for the name of the keyboard key if it is labeled on the keyboard. For example, Return key or <Return>.
  - Lowercase letters are used for the name of the keyboard key that is not labeled on the keyboard. For example, space bar, comma key and so on.
  - In descriptions, the word “key” is used in conjunction with its name. For example, pressing Return key initiates the process.
  - In tables and procedures, angle brackets replace the word “key”. For example, press <Return>.
  - A dash is used to indicate that you must simultaneously press several keys. For example, <Ctrl-C> indicates that you must hold down the Control key while pressing the C key.
  - The phrase “press and release” is used to indicate that you sequentially press several keys. For example, to close a window, press and release <Alt> and then <F4>. This indicates that you press and release the Alt key and then you press and release the F4 function key.

- The names of push and toggle buttons are boldfaced.
  - Initial capital letters are used for the name of a push or toggle button labeled on the display. For example, OK button.
  - In descriptions, tables and procedures, the word “button” is used in conjunction with its name. For example, pressing the OK button initiates the process.

- The names of menus and menu items are boldfaced.
  - Initial capital letters are used for the name of menus listed in the menu bar. For example, File menu.
1.3 Released Versions and Related Documentation

This release is concerned with the following versions of the AWIN GW100 product.

Table 1: AWIN GW100 version information

<table>
<thead>
<tr>
<th>Type</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firmware version</td>
<td>1.5.0</td>
</tr>
<tr>
<td>Hardware version</td>
<td>Rev 01</td>
</tr>
</tbody>
</table>

A complete list of documentation applicable to AWIN GW100 along with its version information (valid at the time of release notes publishing) is presented in Table 2.

Table 2: AWIN GW100 documentation

<table>
<thead>
<tr>
<th>Document ID</th>
<th>Title</th>
<th>Latest Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>3BNP102906</td>
<td>AWIN GW100 Product Datasheet</td>
<td>A</td>
</tr>
<tr>
<td>3BNP102683D2</td>
<td>Quick Setup Guide</td>
<td>B</td>
</tr>
<tr>
<td>3BNP102910</td>
<td>Quick Start Guide</td>
<td>A</td>
</tr>
<tr>
<td>3BNP102911</td>
<td>Bulk Configuration Guide</td>
<td>A</td>
</tr>
<tr>
<td>3BNP102912</td>
<td>AWIN GW100 User Manual</td>
<td>A</td>
</tr>
<tr>
<td>3BNP102683D3</td>
<td>AWIN GW100 - Specific Conditions of Use</td>
<td>A</td>
</tr>
</tbody>
</table>

AWIN GW100 is tested and validated with System 800xA and the reference WirelessHART library (WirelessHART_AWIN Library). The compatibility details are provided in Table 3.

Table 3: System 800xA compatibility with AWIN GW100 gateway.

<table>
<thead>
<tr>
<th>Item</th>
<th>Tested Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>System 800xA</td>
<td>6.0</td>
</tr>
<tr>
<td>CI867ModbusTCPHwLib</td>
<td>2.10-11</td>
</tr>
<tr>
<td>WirelessHART_AWIN Library*</td>
<td>1.0-7</td>
</tr>
<tr>
<td>ModbusTCPCommLib</td>
<td>6.0.0-1</td>
</tr>
</tbody>
</table>

* This library is provided as a sample reference library for customer projects.

⚠️ Compatibility with older versions is not guaranteed. Projects should evaluate this beforehand.
1.4 WirelessHART Products Supported in this Release

All ABB native WirelessHART devices are supported by the AWIN GW100 gateway.

AWIN GW100 has been tested with the following products, shown in Table 4.

- The use of non-ABB devices during the managed release should be approved by the product manager.
- AWIN GW100 is not designed to be used with Wimon100 and the wireless condition monitoring software from ABB. For those solutions, refer to AWIN GW500 gateway. AWIN GW100 connects to Wimon100 but it does not support HART-IP protocol which is required by the ABB condition monitoring software (WDM).
- If WirelessHART adapter is used then only one sub-device is allowed per one adapter.

<table>
<thead>
<tr>
<th>Device</th>
<th>Manufacturer</th>
<th>Power Source</th>
<th>Instrument Type</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSP300-W</td>
<td>ABB</td>
<td>Battery</td>
<td>Temperature</td>
<td>Without energy harvester</td>
</tr>
<tr>
<td>TSP300-W</td>
<td>ABB</td>
<td>Battery</td>
<td>Temperature</td>
<td>With energy harvester</td>
</tr>
<tr>
<td>2600T</td>
<td>ABB</td>
<td>Battery</td>
<td>Pressure</td>
<td></td>
</tr>
<tr>
<td>Wimon100</td>
<td>ABB</td>
<td>Battery</td>
<td>Vibration</td>
<td>No support for WDM software</td>
</tr>
<tr>
<td>WHA-ADP-F8B2</td>
<td>Pepperl+Fuchs</td>
<td>Battery</td>
<td>WirelessHART adapter</td>
<td></td>
</tr>
<tr>
<td>Bullet</td>
<td>Pepperl+Fuchs</td>
<td>Loop power</td>
<td>WirelessHART adapter</td>
<td></td>
</tr>
<tr>
<td>RAD-WHA</td>
<td>Phoenix Contact</td>
<td>Loop power</td>
<td>WirelessHART adapter</td>
<td></td>
</tr>
<tr>
<td>Caliperay 1616</td>
<td>Mistras</td>
<td>Battery</td>
<td>Thickness Monitor</td>
<td></td>
</tr>
</tbody>
</table>
1.5 Supported Tools

Table 5 shows the lists of tools supported by the AWIN GW100 WirelessHART Gateway. AWIN GW100 Configurator is used for bulk configuration of WirelessHART devices and Modbus map.

<table>
<thead>
<tr>
<th>Tool Name</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWIN GW100 Configurator</td>
<td>Rev 1.0 (beta version)</td>
</tr>
</tbody>
</table>

ABB FIM is not supported by AWIN GW100 gateway. However, the WirelessHART devices from ABB can be configured using the FIM.
2 Release Notes

2.1 Functionality Changes

This section provides an overview of the functional changes made in the firmware release of AWIN GW100.

2.1.1 New Functions

This is the first managed release version.

2.1.2 Improvements

This is the first managed release version.

2.1.3 Corrections

This is the first managed release version.
2.2 Known Limitations

Table 6: Known Limitations

<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Restore Factory Defaults</td>
<td>Currently no feedback is provided to the user while process is executing. May take up to 15 seconds for “Reboot” prompt to be presented.</td>
</tr>
<tr>
<td>2</td>
<td>Firmware upload progress bar</td>
<td>During firmware update the progress bar will remain at 100% for some time before reboot prompt is presented.</td>
</tr>
<tr>
<td>3</td>
<td>Automatic Time sync</td>
<td>Current time zone is fixed to EST.</td>
</tr>
<tr>
<td>4</td>
<td>Font in Internet Explorer</td>
<td>Font appears to load as bold when using Internet Explorer. This is not an issue when used with other browsers.</td>
</tr>
</tbody>
</table>

2.3 Known Errata

Consult relevant ABB bulletin for latest updates.
3  Firmware Upgrade

3.1  Pre-installation

To upgrade the firmware on AWIN GW100 gateway kindly request the new firmware from the product manager or your technical support contact.

Make a backup of your gateway's existing configuration before proceeding.

The firmware file is distributed as a “.tar” file which should not be unzipped. It is to be uploaded as-is. Firmware procedure is provided in detail in the user manual (3BNP102912).

3.2  Installation

For installation procedure, refer to the user manual (3BNP102912).

3.3  Post installation

After the firmware upgrade reboot the gateway and login using the default credentials.

Under the “system” section in the “Monitor” user account you can verify the firmware version running on the gateway. If the gateway was successfully upgraded then it will be shown in this page.
4 Technical Support

For technical support get in touch with your local ABB Contact Center.
5 Firmware Revisions History

Table 7: Firmware Revision Table

<table>
<thead>
<tr>
<th>Version</th>
<th>Release Status</th>
<th>Release Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5-0</td>
<td>Released</td>
<td>Jan. 2019</td>
</tr>
</tbody>
</table>
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