



It all starts with a connection



AWR300 Firmware Release Notes

V1.53.0

Release 2026 / H1

2026-08-12



IMPROVED

- **NFC read speed**

The relatively slow NFC read speed was significantly increased through several optimizations.



CHANGED

- **NFC protocols**

The necessary improvements to NFC reading speed made it necessary to remove support for NFC-A, NFC-B, and NFC-F tags. Now, only NFC-V tags can be read again.

V1.52.0

2026-06-26



IMPROVED

- **NFC read range**

The NFC read range has been significantly improved through optimizations of the reading routine.



CHANGED

- **Set factory configuration**

Previously, the menu item '*Set Factory Configuration*' (*Menu* → *Setup* → *Configuration*) did not reset all settings to their default values. This has now changed. All settings are changed back to factory defaults. This also includes the language selection. After a system reset the device starts with the language selection screen. Collected data is not deleted.

- **Access Point mode now 'WLAN Direct'**

The name 'Access Point' for the WLAN mode was misleading regarding its function. This mode enables a direct connection between a device and the reader; therefore, 'WLAN Direct' is more appropriate. The functionality remains unchanged.

- **WLAN Info screen**

The string 'AP:' has been replaced with the string 'SSID'. This reflects the network name of the reader in WLAN Direct mode.

- **NFC continuous reading**

The behavior of LEDs and sounds during continuous NFC reading has been aligned with that of continuous LF RFID reading.



FIXED

- **Reading animation**

When the number of digits decreased as the countdowns in the reading animation counted down, artifacts from the previous number remained. This issue has now been resolved.

- **Infinite loop during NFC reading**

A communication error at an internal interface could result in an infinite loop during NFC reading or when controlling the LEDs at the tip.

V1.51.0

2026-04-14

**NEW**

- **New update mechanism for BT / WLAN**

To comply with EU Cybersecurity regulations, it was necessary to change the update mechanism for BT- and WLAN modules. It now uses extended safety functions. This new mechanism requires adjustments not only to the reader firmware but also to AgriLink. There are no changes for customers; however, it is essential to ensure that a current AgriLink version is used when using this reader firmware version (or higher)!

**CHANGED**

- **Set factory configuration**

Previously, the menu item '*Set Factory Configuration*' (*Menu* → *Setup* → *Configuration*) did not reset all settings to their default values. This has now changed. All settings are changed back to factory defaults. This also includes the language selection. After a system reset the device starts with the language selection screen. Collected data is not deleted.

**FIXED**

- **Language file**

In the previous firmware version, two new strings (for showing regulatory information) have been introduced. But the strings have not been appended to the existing string table at the end, they have been inserted somewhere in the middle. As a result, there was a shift over two positions in existing language files and the translations in were not correct anymore. This has been corrected now; the new strings have moved to the end of the string table and the translations in the language files are correct again.

- **Single Read behavior**

After modifications concerning the signalization after a tag read, there was a problem that led to unintended behavior for single reads. If the same tag was read again within 3 seconds, there was no beep and no LED indication, which was fixed now.

- **Shutdown during serial reader firmware update**

When using the serial transmission to update the reader firmware and the configured switch-off-time was configured to be very short, it could happen that the device shut down, thus interrupting the transmission.

- **Shutdown during BT- and WLAN firmware installation**

For updates of the BT- or WLAN module the reader must be connected to AgriLink via USB. The firmware file is copied to the readers' memory and from there it is loaded into the module. If the USB cable has been removed after copying the update to the reader and the switch-off-time was not configured long enough, it happened that the device shut down while loading the firmware into the module. This is now prevented.

- **Timing monitor**

It was possible that the reader performed a restart when the timing monitor was running.

V1.50.0

Release 2025 / H2

2025-09-03

**CHANGED**

- **Link-List max. entries**

The maximum number of possible entries in the Link-List has been increased to 50.000. It should be noted that this can have a negative impact on the search time that applies after a tag is read. (up to ~3 seconds)

The search cannot be accelerated. The number of entries in the uploaded Link-List is in full responsibility of the customer. To use Link-Lists with more than 10.000 entries with xLink, version 1.7.7.0 or higher is required.

- **BT Connectivity**

The name 'Bluetooth' has been replaced by 'BT Connectivity' or just 'BT' in several menus. The Bluetooth logo was also changed.

V1.49.0

Release 2025 / H1

2025-04-01

**NEW**

- **Help Menu with QR Code**

There is a new menu item in the *Setup* menu called '*Help*'. When this is opened, a QR code is displayed. This contains a weblink for the Allflex product support page. However, the link is also displayed as text so that customers can manually enter it into a web browser.

- **New Country Code Northern Ireland**

Added a new alphanumeric Country-Code 'XI' for Northern Ireland. The numeric code is 899. 'UK' should not be used anymore for cattle-, sheep- and goat tags in Northern Ireland. A 3-digit alphanumeric code, like normally available for all countries according to ISO 3166, was obviously not defined yet.

**FIXED**

- **Forced Language Selection Bug**

The forced language selection (that is normally only shown on initial startup) is now skipped if the SD-Card is not available, otherwise it would result in an infinite loop.

V1.48

Release 2024 / H2

2024-10-21

**NEW**

- **Support for Gallagher W-1 / TWx Scales**

Implemented support for the Gallagher W-1 and TW-weigh scale range. Unlike for the 'standard' *Gallagher* scale setting (uses Gallaghers so-called Ruddweigh protocol), the reader connects to the scale as 'EID Reader' (must also be configured like that on the W-1 / TW-x). When using this setting, the scale accepts EID tag numbers sent from the reader and saves it together with the weight. In 'EID Reader' mode the scale also sends the weight without prior request in the format "123.4,kg\r\n", so that it can be saved in the reader.

**FIXED**

- ***Display error after device start***

After switching on the device it could happen in very rare cases that the display was rotated by 90° (in combination with other display errors).

- ***String-Table synchronized (mqversion 310)***

For different reader models, one string ID was used for different strings. This problem has now been fixed and the strings are synchronized again across all devices (firmware versions).

V1.47

2024-06-19

Internal changes only

V1.46**2024-05-30****FIXED**

- **64GB SD-Card startup problem**
Fixed an issue that sometimes 64GB cards failed after booting.
- **ISO24631 Start Character (mqversion 307)**
Configuring the start character to 0x00 led to the problem that nothing was sent in OnlineMode. This was fixed now.

V1.45**2023-10-04****NEW**

- **Add new WLAN Module**
Implemented support for new WLAN module: WF63-C.

V1.44**Release 2023 / H2****2023-07-31****NEW**

- **Add Scale CIMA-PTM**
Implemented support for new weighing indicator: CIMA-PTM.

V1.43**Release 2023 / Q1****2023-01-16****NEW**

- **Select language on initial startup**
If no language is selected, the reader shows a language selection immediately upon startup (similar to the first startup of a smartphone).

▪ **Configurable device name**

It is possible to configure a customized device name which is then displayed on the home screen in grey font below the status symbols. This can be helpful to make it easier to distinguish between multiple readers on site.

For this purpose, there are two new ASCII protocol parameters:

- 1,34: Device name value, string with 31 characters max.
- 1,35: Show device name ON/OFF (1/0), default value: 0

Both settings can also be changed using xLink (version 1.5.32 or higher) - they are located in the section '*Display*' of the reader configuration.



IMPROVED

▪ **Reduced time for reading display content**

The time for requesting a screenshot from the device was significantly reduced (response to ASCII command *XGSCREEN* = get screen). Thanks to this, it is now possible to use a fairly smooth-running remote control which should be very helpful for demonstration- and support purposes (can be started in AgriLink / SenseLink (version 1.5.31.0 or higher) by pressing [F11] – the reader should be connected via USB, for other interfaces it will not work that smoothly due to the lower data transmission speed).

▪ **Sort languages automatically**

In the language selection the reader displays the languages sorted by their English names now. Before, the sorting had to be done manually if new languages have been added (1.blf, 2.blf, ..., x.blf). This is done by the firmware now, irrespectively of the number (name) of the blf-file (or the upload-slot).



FIXED

▪ **More than 9 language files**

If more than 9 languages are installed on the reader it could happen that the reader displayed English (default) instead of the selected language.

V1.42

2022-11-21

**NEW**

- **Custom Output Format: 2 characters alphanumeric**

Until now, the alphanumeric output of the Country-Code in Custom Output Format was only possible with 3 characters. For Great Britain 'GBR' was sent. According to a customer this is not correct and 'UK' should be used. To allow backwards compatibility, a new option was introduced. The Country-Code can be configured to show 2 characters only in *Custom Format* now. In this case 'UK' will be used instead of 'GBR' in Online Mode.

- **New command for Bi-Directional Communication**

Added a command to start a 'Batch Read Mode' (continuous EID reading) for Bi-Directional Communication: *XDLFB*.

**CHANGED**

- **Bluetooth HID transmission speed**

The transmission of long ID telegrams can obviously lead to transmission errors in combination with some slow remote devices. Characters can get 'lost' towards the end of the ID telegram. It seems to be caused by a speed- or caching issue. To fix this problem, the intercharacter delay time has been increased from 20ms to 30ms.

- **HDX Tags with Trailer unequal to zero**

A company programmed and sold HDX-Read-Only tags which had the Trailer unequal to 0x000000. Because the reader is also checking this data, those tags have not been read. This has been changed now – these tags can be read – but for safety reasons, the tag must be decoded with the same data in three consecutive transponder telegrams before it is accepted by the reader.

**FIXED**

- **EID Output: Byte-Structure and Raw-Data without CRC16**

Corrected a problem for the output formats *Byte-Structure* and *Raw-Data*. These formats should send the CRC16 plus the Trailer but the CRC16 was not sent correctly, which has been fixed now.

- **WLAN Update**

Fixed a bug that prevented the successful update of the WLAN module firmware.

V1.41

Release 2022 / Q3

2022-07-01

**NEW**

- **Add Scale TruTest S3**
Implemented support for BLE weighing indicator *TruTest S3*
- **Added Presets**
The menu item *Setup – Configuration* now shows two presets: *Preset 1 (Android)* and *Preset 2 (iOS)*. Both change the settings for: *Bluetooth Mode*, *Bluetooth Profile* and *Non-Storage Mode* depending on the requirements of each preset.
- **Add Scale RHEWA**
Implemented support for weighing indicator: *RHEWA 82c-2*
- **Delete Data-Base from menu**
Added a menu item that allows to delete an uploaded Data-Base directly on the reader. Before, this has only been possible by sending an appropriate command. When a Data-Base is uploaded, a possibly uploaded Link-List is not available. For accessing the Link-List it is necessary to delete the Data-Base.
- **Add Scale Gallagher W-0**
Implemented support for BLE weighing indicator *Gallagher W-0*

**IMPROVED**

- **FDX-B Decoding**
The decoding of FDX-B transponders has been optimized.



FIXED

- **Task Mode – Standard Loop**

Until now, the minimum number of iterations of the standard loop was always '1' – even if the loop counter (coming from a previous field) was '0' and / or the *Loop Start* field was based on a condition which was not true. Now the loop will not be processed in both cases, as it should be.

- **Task Mode: Loop Counter does not work**

In the *Loop Start* field, the parameter '*Field that holds the number of iterations for the loop*' contains the number of the field in which the desired number of iterations for this loop is stored. The error occurs when the field number of the *Loop Start* field itself is referenced there. In this case, the value in the '*Max. number of iterations for the loop*' parameter specifies the desired number of loop iterations. The bug causes the loop to be run through exactly once, regardless of the value entered there.

- **Task Mode: Wrong reference for EID field in Loop**

For Data-Base fields there is the parameter '*Field in this Task that holds the electronic ID of the transponder*' which specifies the number of the Task field in which the EID is stored, whose Data-Base or Link-List entry should be accessed. Due to the bug, the EID from the first loop iteration was always used and not from the current one. The bug affected the fields *DbEdit*, *DbCheck*, *DbInfo*, *DbShowAlert* (for Link-Lists, only *DbShowAlert* can be used).

V1.40

2022-01-06



CHANGED

- **Font color Group-Info**

The font color for the group information in the main screen was changed from grey to white as grey had a poor readability in sunlight.

V1.39

Release 2021 / Q4

2021-09-27

**NEW**

- **Support for iOS App Tag-Manager-Mobile**

Added support for the AWR300 for the iOS App *Tag-Manager-Mobile* made by Allflex. Beside using this reader firmware, the latest app version must be used to allow proper functioning. In addition, the AWR300 must contain an MFi chip (Bluetooth profile *iAP* must be available).

- **Support for new display controller**

Due to the introduction of a new display controller, the display driver had to be modified. The firmware now supports the previous controller and the new one. This does not have any impact for users. But readers with the new display type must run firmware 1.05 or higher.

**CHANGED**

- **Leading zeros for numeric comparison Bluetooth pairing**

For the authentication method of numeric comparison for Bluetooth pairing, both devices should show the same 6-digit numeric code which must be confirmed on both ends. Until now, the reader was removing leading zeros when the pairing code was displayed. This behavior has been changed so that the code always has 6 digits – also in case of leading zeros.

- **Right hotkey description for text input via virtual keyboard changed**

When the virtual keyboard is opened for entering text (e.g. for renaming the default group name when creating a new group), the description shown above the right soft key was 'Close' until now. To be aligned with the APR series readers, it has been changed to an [arrow-down] + keyboard symbol.

- **Modified HDX decoding to allow reading the EID from MRS tags**

The EID from Hokofarm MRS (Motion Registration System) tags could not be read as they use a slightly different coding compared to standard HDX tags. The decoding has been changed so that the ISO17784/85 part of MRS tags can be read now.

V1.38

Release 2021 / Q3

2021-06-25

**FIXED**

- **Bluetooth HID – Sniff Mode**

On a few smartphones, transmission errors have been reported when using the Bluetooth profile *HID*. The cause was the use of the sniff mode which has been implemented for *iAP* as it is an Apple requirement, but it was active for other profiles as well. Now sniff mode has been deactivated for all profiles except *iAP*, which solves the *HID* transmission problems in combination with particular smartphones.

- **Display problem with Animal Counter in Speed-Loop**

When displaying the Animal Counter in a Speed-Loop in Task-Mode (after the string '*IdCount:*'), the complete counter disappeared when the counter value reached a certain number of digits – only the last digit of the counter was actually displayed. The number of places in the counter value from which this happened was dependent on the length of the translated string for '*IdCount:*'.

- **Download problem Speed-Loop / Record-Loop**

There have been problems with downloading data from Tasks if the first field in the Task definition has been a Speed-Loop or Record-Loop field. In such a case, only the first record of each Task execution could be downloaded.