

Firmware changelog of the device: 1334950000 UC20-WL2000-AC

Firmware updating information:

An update of the firmware can be done via the graphical web front end. A description of the firmware update procedure can be found in the device manual on the Weidmüller website: support.weidmueller.com.

Version 2.1.1	Hardware Version 01.xx.xx	Release date: December, 2023
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Information:

- The factory reset operation can take up to several minutes. Please be patient when using this operation and do not switch off the device.
- Firmware upgrade operation from version 1.1X to 2.X takes longer than 30 min. The system restarts several times in between. Please be patient and do not interrupt the power supply.
- Recovery is additionally supported by help of the RECOVERY file feature. Please refer to "Resetting the controller to factory settings without a password" in the embedded help.

Bug fixes:

- Restoring a backup media does not invalidate app licenses anymore.

Known issues:

- Pressing the "Restart system" button on the update installation page initiates the restart operation in background without any user feedback.
- CODESYS offline package cannot be deinstalled or updated. A factory reset is needed to reinstall a new CODESYS offline package.
- The backup and restore operation is currently not limited by size. Note: backup and restore operation might fail when the used internal flash storage size is larger than 50%.
- Time setting: shows a random date if NTP is not reachable during startup.
- Time setting: setting time manually ignores the daylight savings time. A refresh of the page solves this issue.
- CPU isolation state cannot be restored via the backup and restore operation. It must be adjusted manually after the restore operation.
- App manager: If the error message "Please check the internet connection and retry" appears, please set the system time to a valid time and to rectify the error.
- SF LED is currently not used and has no function / RUN LED does not always show correct status
- hawkBit: Does not support installation of offline app images.
- SFTP is not working properly after restoring a snapshot, no file upload is possible.

Version 2.1.0	Hardware Version 01.xx.xx	Release date: November, 2023
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Information:

- The factory reset operation can take up to several minutes. Please be patient when using this operation and do not switch off the device.
- Firmware upgrade operation from version 1.1X to 2.X takes longer than 30 min. The system restarts several times in between. Please be patient and do not interrupt the power supply.
- Recovery is additionally supported by help of the RECOVERY file feature. Please refer to "Resetting the controller to factory settings without a password" in the embedded help.

New features:

- Support of App license management
- Apps menu supports offline package installation.

Bug fixes:

- IAM: Dedicated app permissions are no longer lost after app update operation.
- CODESYS PROFINET devices are now supported.

Known issues:

- Pressing the "Restart system" button on the update installation page initiates the restart operation in background without any user feedback.
- Restoring the backup media invalidates app licenses. Please do not use backup/restore functionality if an app license is already applied.
- CODESYS offline package cannot be deinstalled or updated. A factory reset is needed to reinstall a new CODESYS offline package.

- The backup and restore operation is currently not limited by size. Note: backup and restore operation might fail when the used internal flash storage size is larger than 50%.
- Time setting: shows a random date if NTP is not reachable during startup.
- Time setting: setting time manually ignores the daylight savings time. A refresh of the page solves this issue.
- CPU isolation state cannot be restored via the backup and restore operation. It has to be adjusted manually after the restore operation.
- App manager: If the error message "Please check the internet connection and retry" appears, please set the system time to a valid time and to rectify the error.
- SF LED is currently not used and has no function / RUN LED does not always show correct status.
- hawkBit: Does not support installation of offline app images.

Version 2.0.2**Hardware Version 01.xx.xx****Release date: September, 2023****Information:**

- The factory reset operation can take up to several minutes. Please be patient when using this operation and do not switch off the device.

Security Advisory fixes:

- CVE-2023-3935: Heap Buffer Overflow Vulnerability in CodeMeter Runtime.

Bug fixes:

- CODESYS: License no longer expires after several days in operation.

Known issues:

- IAM: Dedicated app permissions get lost after an app update operation and need to be reassigned.
- CODESYS offline package cannot be deinstalled or updated. A factory reset is needed to reinstall a new CODESYS offline package.
- CODESYS PROFINET devices are not supported.
- The backup and restore operation is currently not limited by size. Note: backup and restore operation might fail when the used internal flash storage size is larger than 50%.
- Time setting: shows a random date if NTP is not reachable during startup.
- Time setting: setting time manually ignores the daylight savings time. A refresh of the page solves this issue.
- CPU isolation state cannot be restored via the backup and restore operation. It has to be adjusted manually after the restore operation.
- App manager: If this error message "Please check the internet connection and retry" appears, please set the system time to a valid time and the error is gone.
- SF LED is currently not used and has no function / RUN LED does not always show correct status.
- hawkBit: Does not support installation of offline app images.

Version 2.0.1**Hardware Version 01.xx.xx****Release date: April, 2023****Information:**

- The factory reset operation can take up to several minutes. Please be patient when using this operation and do not switch off the device.

Bug fixes:

- IAM: User management issue could lead to high CPU load.

Known issues:

- IAM: Dedicated app permissions get lost after an app update operation and need to be reassigned.
- CODESYS offline package cannot be deinstalled or updated. A factory reset is needed to reinstall a new CODESYS offline package.
- CODESYS PROFINET devices are not supported.
- The backup and restore operation is currently not limited by size. Note: backup and restore operation might fail when the used internal flash storage size is larger than 50%.
- Time setting: shows a random date if NTP is not reachable during startup.
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- SF LED is currently not used and has no function / RUN LED does not always show correct status.
- hawkBit: Does not support installation of offline app images.

New features:

- New u-OS as a base operating system optimised for app operations.
- Update to Linux kernel version 5.15.
- Support of CODESYS and CODESYS licenses.
- Complete new starting page design with a new control centre and a new administration surface.
- App manager: formerly called 'add-on manager' - supports the handling of apps.
- SSH access can be enabled for u-OS administration purposes.
- Supports the offline installation of application images via software & update installation dialogue.
- NVRAM support for CODESYS retain variables. It requires at least hardware version 01.23.00.
- Enabling CPU isolation dedicates one CPU for high-priority processes. It is the default configuration for CODESYS installations.
- Recover the controller by using a of SD card.

Information:

- Flashing this firmware version causes a factory reset for all configuration data. All settings are lost! For further information on the firmware upgrade procedure, please refer to the control manual.
- The factory reset operation can take up to several minutes. Please be patient when using this operation and do not switch off the device.

Known issues:

- IAM: Dedicated app permissions get lost after an app update operation and need to be reassigned.
- CODESYS offline package cannot be deinstalled or updated. A factory reset is needed to reinstall a new CODESYS offline package.
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