Firmware change log of the u-control device: 1334990000 UC20-WL2000-IOT

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 u-control manual on the Weidmüller website: www.weidmueller.com

Version 1.7.0  Hardware Version 01.xx.xx  Release date: April, 2020
New features:
- Modbus TCP Slave
- Global system status information
- Node-RED: upgrade to version 1.0.3
- Usage of the second Ethernet port (X2) is now supported.
- User defined NTP server parameters
- Visu: configured widget visibility

Information:
- Online help supports search operation.

Bug fixes:
- Node-RED: installation of additional nodes might fail with error "EACCES: permission denied".

Known issues:
- Node-RED: ‘iodata-out’ does not accept set values when variable is of type ’TIME’.
- OPC UA: write access to variables of type ’TIME’ is currently not possible.
- Firefox: ‘Private Mode’ is currently not supported.
- Remove a module after Autoscan operation and the follow up deploy operation fails. A power cycle is necessary to solve this error.

Version 1.6.0  Hardware Version 01.xx.xx  Release date: February, 2020
New features:
- Weidmüller products ‘Managed Switch’ are supported regarding DHCP handling.

Information:
- Usage of the second Ethernet port (X2) is not possible yet and will be added in a future firmware update.
- Node-RED: flow size is limited to 3 MB per export/import operation.

Bug fixes:
- Node-RED: flow size is increased from 1 to 3 MB.
- OPC UA: the variable identifier now corresponds to the global variable, hence it will only change if the variable name changes

Known issues:
- Node-RED: installation of additional nodes might fail with error "EACCES: permission denied". A factory reset solves this issue.
- Node-RED: ‘iodata-out’ does not accept set values when variable is of type ’TIME’.
- OPC UA: write access to variables of type ’TIME’ are currently not possible.
- Firefox: ‘Private Mode’ is currently not supported.
- Remove a module after Autoscan operation and the follow up deploy operation fails. A power cycle is necessary to solve this error.

Version 1.5.0  Hardware Version 01.xx.xx  Release date: January, 2020
New features:
- Device Live View – Monitoring the device configuration of the real-time application
- Network setting supports beside static also dynamic IP configuration (DHCP).

Information:
- Usage of the second Ethernet port (X2) is not possible yet and will be added in a future firmware update.
- Node-RED: flow size is currently limited to 1 MB.
- Weidmüller products ‘Managed Switch’ are still not supported regarding DHCP handling.

Bug fixes:
• Node-RED: error 502 Bad Gateway after power up is solved.

Known issues:
• Node-RED: installation of additional nodes might fail with error "EACCES: permission denied". A factory reset solves this issue.
• Node-RED: iodata-out doesn't accept set values when variable is of type TIME.
• Firefox: ‘Private Mode’ is currently not supported.
• Remove a module after Autoscan operation and the follow up deploy operation fails. A power cycle is necessary to solve this error.

Version 1.4.1 Hardware Version 01.xx.xx Release date: November, 2019

Information:
• Usage of the second Ethernet port (X2) is not possible yet and will be added in a future firmware update

Bug fixes:
• U-Link: registration lost with message 'The registration is pending' is solved

Known issues:
• Firefox: ‘Private Mode’ is currently not supported
• Node-RED: iodata-out doesn't accept set values when variable is of type TIME
• Remove a module after Autoscan operation and the follow up deploy operation fails. A power cycle is necessary to solve this error.

Version 01.04.00 Hardware Version 01.xx.xx Release date: October, 2019

New supported modules:
• Stepper Module UR20-1SM-50W-6DI2DO-P

New features:
• Function block SEL

Information:
• Usage of the second Ethernet port (X2) is not possible yet and will be added in a future firmware update
• During execution of a firmware update procedure a power loss must be prevented.

Known issues:
• U-Link: in rare cases the status ‘The registration is pending’ might appear. To solve this issue the registration key has to renewed in the U-Link web portal. Afterwards a power cycle of the device is necessary to initiate a new registration.
• Firefox: ‘Private Mode’ is currently not supported
• Cloud-configuration: iodata-out doesn't accept set values when variable is of type TIME
• Remove a module after Autoscan operation and the follow up deploy operation fails. A power cycle is necessary to solve this error.

Version 01.03.00 Hardware Version 01.xx.xx Release date: September, 2019

New features:
• u-link
• OPC-UA server
• XY-Line Chart for Smart Visu
• Improved support of the visualisation for resistent touch panels
• Improved support of low performance touch panels can be activated by a selective checkbox in the Visu Editor

Information:
• Usage of the second Ethernet port (X2) is not possible yet and will be added in a future firmware update
• During execution of a firmware update procedure a power loss must be prevented.

Bug fixes:
• Fixed loss of RTC system time on reboot.

Known issues:
• Firefox: ‘Private Mode’ is currently not supported
• Cloud-configuration: iodata-out doesn't accept set values when variable is of type TIME
• Application: REAL_TO_TIME values are not displayed in full precision which may lead to problems in comparison operations
• To avoid problems at boot it is advisable to make sure the USB cable is disconnected when powering up the u-control device.
• Remove a module after Autoscan operation and the follow up deploy operation fails. A power cycle is necessary to solve this error.

Version 01.02.00 Hardware Version 01.xx.xx Release date: June, 2019

New supported modules:
• UR20-16DI-N
• UR20-16DI-N-PLC-INT
• UR20-16DO-N
• UR20-16DO-N-PLC-INT
• UR20-1CNT-100-1DO
• UR20-1CNT-500
• UR20-1COM-232-485-422 - Modbus RTU Master support only
• UR20-1SSI
• UR20-2CNT-100
• UR20-2DI-P-TS
• UR20-2FCNT-100
• UR20-2PWM-PN-0.5A
• UR20-2PWM-PN-2A
• UR20-4AI-RTD-HP-DIAG
• UR20-4AI-UI-16-HD
• UR20-4AO-UI-16-HD
• UR20-4AO-UI-16-M
• UR20-4DI-N
• UR20-4DI-P-TS
• UR20-4DO-N
• UR20-4DO-N-2A
• UR20-8AI-RTD-DIAG-2W
• UR20-8DI-N-3W
• UR20-8DO-N

New features:
• Added module catalogue
• Modbus RTU Master with device configurator
• User Interface - new Starting page improves the navigation
• User Interface - improved save and deploy handling for projects
• Post package installation supports free installation of Node-RED packages
• Usage of SD card is now supported

Information:
• Usage of the second Ethernet port (X2) is not possible yet and will be added in a future firmware update

Bug fixes:
• Variables: Negative e-notation for REAL is not supported
• Variable input widget: Keypad does not allow input of value 0 right behind a decimal dot. Use keyboard input in that case.
• Time Settings: month is displayed wrongly (current month – 1)
• Live View: Message “Loading…” is displayed in case a project without variables is deployed. It can be ignored.
• Autoscan: Displays proper error message for unsupported I/O modules

Known issues:
• Firefox: ‘Private Mode’ is currently not supported
• Cloud-configuration: iodata-out doesn't accept set values when variable is of type TIME
• Application: REAL_TO_TIME values are not displayed in full precision which may lead to problems in comparison operations
• To avoid problems at boot it is advisable to make sure the USB cable is disconnected when powering up the u-control device.
• Remove a module after Autoscan operation and the follow up deploy operation fails. A power cycle is necessary to solve this error.

Version 01.01.00 Hardware Version 01.xx.xx Release date: February, 2019

New supported modules:
• UR20-3EM-230V-AC

New features:
• Visualisation - editor to configure visualisations for human machine interfaces
• Global variables can now be used for write operation
• Configuration of up to three different DNS server addresses

Information:
• Activation of SD card slot and the second Ethernet port (X2) is not available yet and will be added in a future firmware update

Bug fixes:
• Global variables: Leading underscores are now allowed
• Import of large project files no longer causes 'Disconnected' message
• Fixed that in rare cases a restart of the device causes connection error messages
• Improved compatibility to USB cables of different standards
• No more limitation to IP address changes

Known issues:
• Firefox: 'Private Mode' is currently not supported
• Variables: Negative e-notation for REAL is not supported
• Cloud-configuration: iodata-out doesn't accept set values when variable is of type TIME
• Variable input widget: keypad does not allow input of value 0 right behind a decimal dot. Use keyboard input in that case
• Time Settings: month is displayed wrongly (current month – 1)
• Live View: Message “Loading…” is displayed in case a project without variables is deployed. It can be ignored
• Autoscan: No proper error message for unsupported I/O modules
• To avoid problems at boot it is advisable to make sure the USB cable is disconnected when powering up the u-control device.

Version 01.00.01 Hardware Version 01.xx.xx Release date: October, 2018

New supported modules:
• UR20-4DI-P
• UR20-4DI-P-3W
• UR20-8DI-P-2W
• UR20-8DI-P-3W
• UR20-8DI-P-3W-HD
• UR20-8DI-ISO-2W
• UR20-16DI-P
• UR20-16DI-P-PLC-INT
• UR20-4DI-2W-230V-AC
• UR20-4DO-P
• UR20-4DO-P-2A
• UR20-4DO-PN-2A
• UR20-4DO-ISO-4A
• UR20-8DO-P
• UR20-8DO-P-2W-HD
• UR20-16DO-P
• UR20-16DO-P-PLC-INT
• UR20-4RO-SSR-255
• UR20-4RO-CO-255
• UR20-4AI-UI-16
• UR20-4AI-UI-12
• UR20-8AI-I-16-HD
• UR20-8AI-I-PLC-INT
• UR20-4AI-RTD-DIAG
• UR20-4AI-TC-DIAG
• UR20-4AI-R-HS-16-DIAG
• UR20-4AO-UI-16
• UR20-PF-O-1DI-SIL
• UR20-PF-O-2DI-SIL
• UR20-PF-O-2DI-DELAY-SIL
• UR20-PF-I
• UR20-PF-O
• UR20-16AUX-I
• UR20-16AUX-O
• UR20-16AUX-SE
• UR20-16AUX-GND-I
• UR20-16AUX-GND-O
- UR20-ES

**Information:**
- Turn on the power supply for the u-control device before you connect the USB cable to avoid problems when starting the u-control device.
- SD Card and Ethernet port labeled X2 will be supported with a future firmware version.

**Known issue:**
- Firefox 'Private Mode' is currently not supported.
- Using reserved keywords e.g. 'nan' or 'infinity' as names in the WebUI leads currently to a generic deploy error.
- During an import operation of a large project a 'disconnected screen' might appear and a browser refresh will clear it.
- If rare cases a restart of the system might bring up a connection error with different error messages. An additional browser refresh will solve it.
- Negative e-notation for REAL not supported.
- Some USB cables might have problems to work properly. Please try a different one.
- Ethernet IP address can only be changed when Ethernet cable is plugged in and has a lively connection.