Release Notes CODESYS Control SL for Weidmüller u-OS

Compatibility

The CODESYS package can be installed and updated in the CODESYS Development System 3.5.19.7 or later. u-OS 2.2.0 requires the Package Version 4.12.1.0 or later. For instructions on how to migrate from an older u-OS version see the First Steps document. The CODESYS runtime app can be installed and updated on all devices running u-OS 2.1.3 or later. Parametrization of IO-Link devices connected to the UR20-4COM-IO-LINK requires u-OS 2.5.0 or later.

IMPORTANT	Uninstallation of the app is only possible by doing a factory reset in u-OS. Make sure to backup all user data!

Version history

The version history below is specific to the CODESYS Control SL for Weidmüller u-OS package and runtime. For general CODESYS Control release notes please refer to CODESYS Release & Lifecycle (codesys.com).

Package version history

Version: 4.12.2.0   **Release Date: December 2025**

Information

- This package version is compatible with u-remote UR20 Library for CODESYS version 3.0.1 or later.

New supported hardware

- 2682640000 IOT-GW30-4G-NA.

New features

- Package is now signed by Weidmüller

- Added IO-Link configurator to enable configuration of the UR20-4COM-IO-LINK module and attached IO-Link devices

- CODESYS Control SL for Weidmueller u-OS runtime app can now be managed via the CODESYS Deploy tool. SWU-files for installation via the u-OS Control Center are still available

Bug fixes

- Added descriptive names for channels of UR20-4DO-PN-2A

Known issues

- System-Bus Device Manager: Does not show the correct device icon when importing IODD files which are not part of a ZIP-archive. Import the entire archive containing one or multiple IODDs and the icons instead of the individual IODD file

- System-Bus Device Manager: An IO-Link port that is configured with an IODD but whose channel's operation mode is disabled will cause a System bus error

- System-Bus Device Manager: Deploy progress of the IO-Link device configuration is not reported in CODESYS Development System, and the initial deployment can take a few minutes depending on the connected IO-Link devices

- Missing process data description of module UR20-1COM-232-485-422-V2

- Symbolic Access to System bus modules is not possible

Version: 4.12.1.0   **Release Date: May 2025**

Information

- This package version or later is required when using u-OS 2.2.0 or later

- This package version is compatible with u-remote UR20 Library for CoDeSys version 2.2.4 or later

New supported hardware

- 2920830000 UR20-3EM-400V-AC-CT1A

- 2920840000 UR20-3EM-400V-AC-CT5A

- 2920850000 UR20-3EM-400V-AC-RC

- 2920860000 UR20-3EM-400V-AC-333MV

New features

- Updated IO Configurator, required for u-OS 2.2.0 or later

- Updated IoDrvUR20Control library to version 2.0.0.0, required for u-OS 2.2.0 or later

- UR20-4COM-IO-LINK Process Data width has been increased to 32 Byte per channel No acyclic data and no parametrization of connected IO-link devices

Bug fixes

- IoDrvUR20Control: bugfix for running the module diagnosis in the background task IoMgrDiagTask; IO manager cares for consistency in atomic bit access instead of IO driver

- Compile information in Weidmüller library in CODESYS causes warnings about difference between offline and online library

Version: 4.12.0.0	**Release Date: September 2024**

Information

- This package version or later is compatible with u-OS 2.1.x or earlier

- This package version is compatible with u-remote UR20 Library for CoDeSys version 2.2.3 or earlier

New supported hardware

- 1990070000 UR20-2AI-SG-24-DIAG

- 1315600000 UR20-2PWM-PN-0.5-V2

- 1315610000 UR20-2PWM-PN-2A-V2

New features

- Support CODESYS Control SL Runtime App Version 4.12.0.0-1

- Updated IoDrvUR20Control library to version 1.0.2.0:
  ◦ System Bus process alarms are supported
  ◦ System Bus diagnosis are supported

Bug fixes

- Added modules sometimes do not appear in the device tree

- Malfunction of drag&drop to another CODESYS IDE instance

- Referenced libs are contained in package

- System bus error with 64 modules configured

Known issues

- Compile information in Weidmüller library in CODESYS causes warnings about difference between offline and online library.

Version: 4.7.0.0	**Release Date: November 2023**

New supported hardware

- 2839150000 UC20-M3000

- 2839160000 UC20-M4000

- 2928020000 UC20-WL2000-AC-CAN

- 1315740000 UR20-4COM-IO-LINK with limited support. Only Process Data with a fixed width of 16 Byte per channel is supported. No acyclic data and no parametrization of connected IO-link devices

New features

- Process Alarms can be enabled as "System Bus" setting

- Diagnostic Alarm can be enabled as "System Bus" setting

- Automatic migration when old project (4.7.0.0) is loaded

Bug fixes

- fixes display of UR20-8DIO-P-3W in configuration overview

Known issues

- Device serial number, firmware version, hardware version not displayed in online mode

Runtime version history

Version: 4.12.1.0-1	**Release Date: December 2025**

Information

- CODESYS Control SL for Weidmueller u-OS package 4.12.0.0 or later is required to use this runtime version

New supported hardware

- 2682640000 IOT-GW30-4G-NA

New features

- SWU files are signed. u-OS 2.4.0 and later only allows installation of signed SWU files by default.

- The WebVisu fallback page now automatically refreshes every 30s, no manual refresh necessary after initial deployment of a WebVisu or a restart of the CODESYS Runtime

Bug fixes

- Optimized memory and storage usage

- RUN LED control has been enhanced to ensure it always reflects the correct runtime status, but may light up slightly later than in version 4.12.0.0-3

- UC20-M3000 & UC20-M4000: RUN LED has been moved from CTRL2 to CTRL1 LED

Known issues

- On UC20-WL2000-AC devices, and when combined with UR20-4COM-IO-LINK, a large number of CmpSocketUnix log error messages may appear after a power cycle or runtime restart

- IOT-GW30: Using CANopen can lead to system instability if the physical bus is not terminated on both ends

- A change of the EtherCat I/O task cycle time will be active after a power cycle of the device

- Logfile path cannot be configured. Since logs reside in /tmp/CODESYScontrol.log, this also means that logs cannot be persisted across reboots

Version: 4.12.0.0-3	**Release Date: October 2025**

Information

- CODESYS Control SL for Weidmueller u-OS package 4.12.0.0 or later is required to use this runtime version.

New features

- Compatibility with u-OS 2.4.0 and later: SWU files are now signed.

Known issues

- RUN led only reflects status of CODESYS control SL program after Start/Stop command.

- IOT-GW30: Using CANopen can lead to system instability if the physical bus is not terminated on both ends.

- A change of the EtherCat I/O task cycle time will be active after a power cycle of the device.

- Logfile path cannot be configured. Since logs reside in /tmp/codesyscontrol.log, this also means that logs cannot be persisted across reboots.

Version: 4.12.0.0-3	**Release Date: September 2024**

Information

- CODESYS Control SL for Weidmueller u-OS package 4.12.0.0 or later is required to use this runtime version.

New features

- Update CODESYS control version to 4.12.0.0. This version improves license handling. For more information visit CODESYS website: codesys.com.

Known issues

- RUN led only reflects status of CODESYS control SL program after Start/Stop command.

- IOT-GW30: Using CANopen can lead to system instability if the physical bus is not terminated on both ends.

- A change of the EtherCat I/O task cycle time will be active after a power cycle of the device.

- Logfile path cannot be configured. Since

Version: 4.9.0.0-3	**Release Date: July 2024**

Information

- CODESYS Control SL for Weidmueller u-OS package 4.7.1.0 or later is required to use this runtime version.

New features

- Update installed CODESYS Control SL App on the device.

Bug fixes

- UC20-WL2000-AC-CAN: Controller crashes when at least the CANopen Manager is projected.

- UC20-WL2000-AC-CAN: CODESYS Control SL Core 1 utilization goes to 100% when CANopen bus termination is deactivated.

- CODESYS Control SL 4.9.0.0-1 licensing not possible if the PROCON-WEB-ES 6.7 app or higher is installed before the CODESYS Control SL app.

- UC20-WL2000-AC-CAN: Connection cannot be restored after plugging/unplugging the CANopen bus.

- Displays an error during installation due to a missing command.

- App status check causes load peaks.

Known issues

- RUN led only reflects status of CODESYS control SL program after Start/Stop command.

- Using CANopen can lead to system instability on IOT-GW30 if the physical bus is not terminated on both ends.

- Multiple errors shown in Installation & Update page that have no effect when updating the app to 4.9.0.0-3.

- A change of the EtherCat I/O task cycle time will be active after a power cycle of the device.

Version: 4.9.0.0-1   **Release Date: October 2023**

Information

- CODESYS Control SL for Weidmueller u-OS package 4.7.1.0 or later is required to use this runtime version.

New supported hardware:

- 2839150000 UC20-M3000.

- 2839160000 UC20-M4000

- 2928020000 UC20-WL2000-AC-CAN

New features

- Update CODESYS control version to 4.9.0.0

Bug fixes

- App status check shows correct state

- Show hint if CODESYS visualization is not present

Known issues

- RUN led only reflects current status of CODESYS control program after Start/Stop command

- Using CANopen can lead to system instability, if the physical bus is not terminated on both ends

Version: 4.7.0.0-2   **Release Date: March 2023**

Information

- CODESYS Control SL for Weidmueller u-OS package 4.7.1.0 or later is required to use this runtime version.

New supported hardware

- 2682620000 IOT-GW30

- 2682630000 IOT-GW30-4G-EU

- 1334950000 UC20-WL2000-AC

New features

- Initial release with CODESYS control version 4.7.0.0

Known issues

- RUN led only reflects current status of CODESYS control program after Start/Stop command

- Using CANopen can lead to system instability, if the physical bus is not terminated on both ends