

Release Notes CODESYS Control SL for Weidmüller u-OS

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Compatibility

- The CODESYS package can be installed and updated in the CODESYS Development System 3.5.21.40 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 [Getting Started](#) document
- The CODESYS runtime app can be installed and updated on all devices running u-OS 2.1.3 or later. Uninstallation of the app is only possible by doing a factory reset in u-OS
- Parametrization of IO-Link devices connected to the UR20-4COM-IO-LINK requires u-OS 2.5.0 or later
- Parametrization of IO-Link devices connected to the UR20-4COM-IO-LINK-V2 requires u-OS 2.7.0 or later

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: 4.20.1.0

Release Date: May 2026

Information

- Parametrization of IO-Link devices connected to the UR20-4COM-IO-LINK-V2 requires u-OS 2.7.0 or later.
- This package version is compatible with u-remote UR20 Library for CODESYS version 3.0.1 or later.

New Supported Hardware

- [2819690000](#) UR20-4COM-IO-LINK-V2

New Features

- Added IO-Link configurator to enable configuration of the UR20-4COM-IO-LINK-V2 module and attached IO-Link devices
- Updated IoDrvUR20Control library to version 2.1.0.1

- Updated the CODESYS Control SL Deploy Tool package dependency to version 4.19.0.0
- Updated all device managed library placeholders to latest versions

Bug Fixes

- System-Bus Device Manager: Fixed an issue where output modules could become non-functional when placed after an UR20-3EM-400V-AC-* module in the module chain
- Fixed an issue where the System-Bus device and the IoDrvUR20Control library could default to version 2.0.0.0 instead of the latest available version
- Fixed an issue where the IoDrvUR20Control library documentation was missing in the CODESYS Library Manager. Please update to IoDrvUR20Control library version 2.1.0.1 or later to resolve this issue
- Fixed an issue where the process data description of module UR20-1COM-232-485-422-V2 was missing
- Fixed an issue where one byte of the process output data was missing for module UR20-1COM-232-485-422-V2

Known Issues

- Warnings about misconfigured placeholder file paths may be displayed in logs but can be ignored
- System-Bus: Using the System-Bus in a CODESYS system redundancy project may cause excessive CPU load, potentially causing the redundancy application to enter standalone-standalone mode. Deactivate the System-Bus in the device tree as a workaround
- Symbolic Access is not possible if at least one UR20-4COM-IO-LINK module is attached to the System-Bus
- The CODESYS Control SL Deploy Tool shows an exception dialog upon finishing installation or update of the CODESYS Control SL for Weidmueller u-OS runtime app. Please ignore the exception
- 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
- Installing the CODESYS Control SL for Weidmueller u-OS runtime app via the CODESYS SL Deploy Tool may fail because the license query takes too long when a large number of license containers are present

Version: 4.20.0.0

Release Date: March 2026

Information

The package version 4.20.0.0 has not been publicly released.

Version: 4.12.2.0

Release Date: December 2025

Information

- Parametrization of IO-Link devices connected to the UR20-4COM-IO-LINK requires u-OS 2.5.0 or later.
- 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.
- [1315740000](#) UR20-4COM-IO-LINK

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 Control SL Deploy Tool. SWU-files for installation via the u-OS Control Center are still available
- Updated IoDrvUR20Control library to version 2.1.0.0
 - Added UR20FB_AsyncTransferAcyclicData Function Block. This new function block enables asynchronous reading and writing of acyclic data to and from the System Bus

Bug Fixes

- Added descriptive names for channels of UR20-4DO-PN-2A
- Fixed an issue that prevented Symbolic Access to System Bus modules. Update to IoDrvUR20Control library version 2.1.0.0 or later to resolve this issue.

Known Issues

- Symbolic Access is not possible if at least one UR20-4COM-IO-LINK module is attached to the System-Bus
- The CODESYS Control SL Deploy Tool shows an exception dialog upon finishing installation or update of the CODESYS Control SL for Weidmueller u-OS runtime app. Please ignore the exception
- System-Bus Device Manager: All output modules become non-functional when placed in the module chain after an UR20-3EM-400V-AC-* module. Please place output modules before any UR20-3EM-400V-AC-* module in the module chain as a workaround
- The System-Bus device and the IoDrvUR20Control library defaults to version 2.0.0.0 instead of the latest version 2.1.0.0. Please manually update the System-Bus device to use version 2.1.0.0
- The documentation of the IoDrvUR20Control library in version 2.1.0.0 is missing in library manager
- 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
- One byte of the process output data is missing of module UR20-1COM-232-485-422-V2
- Installing the CODESYS Control SL for Weidmueller u-OS runtime app via the CODESYS SL Deploy Tool may fail because the license query takes too long when a large number of license containers are present

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 3.0.1 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

Known Issues

- Symbolic Access to System bus modules is not possible
- Missing process data description of module UR20-1COM-232-485-422-V2

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 3.0.1 or later

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.
- Symbolic Access to System bus modules is not possible

Version: 4.7.1.0

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: 4.20.1.0-1

Release Date: May 2026

Information

- CODESYS Control SL for Weidmueller u-OS package 4.20.1.0 or later is required to use this runtime version

New Features

- Updated the CODESYS Control SL Runtime to version 4.20.0.0

Bug Fixes

- UC20-M4000: Fixed an issue where the task within the "IEC-Tasks" task group was not automatically assigned to the last isolated core

Known Issues

- On UC20-WL2000-AC devices in combination with UR20-4COM-IO-LINK or UR20-4COM-IO-LINK-V2 modules, a large number of CmpSocketUnix log error messages may appear after a power cycle or runtime restart
- The CODESYS control runtime log messages displayed on the u-OS log page may be incomplete. Please check the logs in the CODESYS Development System
- Deploying an application may fail because the license query takes too long when a large number of license containers are present
- On IOT-GW30 devices, 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: 4.20.0.0-1

Release Date: April 2026

Information

The CODESYS Control SL for Weidmueller u-OS runtime app version 4.20.0.0-1 has not been publicly released

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

- UC20-M4000: The task within the "IEC-Tasks" task group is not automatically assigned to the last isolated core. Please manually assign the task group by setting the "Fixed pinned" Core value to "3" within the task configurator
- On UC20-WL2000-AC devices in combination with UR20-4COM-IO-LINK or UR20-4COM-IO-LINK-V2 modules, a large number of CmpSocketUnix log error messages may appear after a power cycle or runtime restart
- The CODESYS control runtime log messages displayed on the u-OS log page may be incomplete. Please check the logs in the CODESYS Development System
- Deploying an application may fail because the license query takes too long when a large number of license containers are present
- On IOT-GW30 devices, 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

- Deploying an application may fail because the license query takes too long when a large number of license containers are present
- RUN led only reflects status of CODESYS control SL program after Start/Stop command.
- On IOT-GW30 devices, 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: 4.12.0.0-1

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](https://www.codesys.com).

Known Issues

- Deploying an application may fail because the license query takes too long when a large number of license containers are present
- RUN led only reflects status of CODESYS control SL program after Start/Stop command.
- On IOT-GW30 devices, 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

- Deploying an application may fail because the license query takes too long when a large number of license containers are present
- RUN led only reflects status of CODESYS control SL program after Start/Stop command.
- On IOT-GW30 devices, using CANopen can lead to system instability 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

- Deploying an application may fail because the license query takes too long when a large number of license containers are present
- RUN led only reflects current status of CODESYS control program after Start/Stop command
- On IOT-GW30 devices, 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

- Deploying an application may fail because the license query takes too long when a large number of license containers are present
- RUN led only reflects current status of CODESYS control program after Start/Stop command
- On IOT-GW30 devices, using CANopen can lead to system instability if the physical bus is not terminated on both ends