



CODESYS ENGINEERING

CODESYS Development System

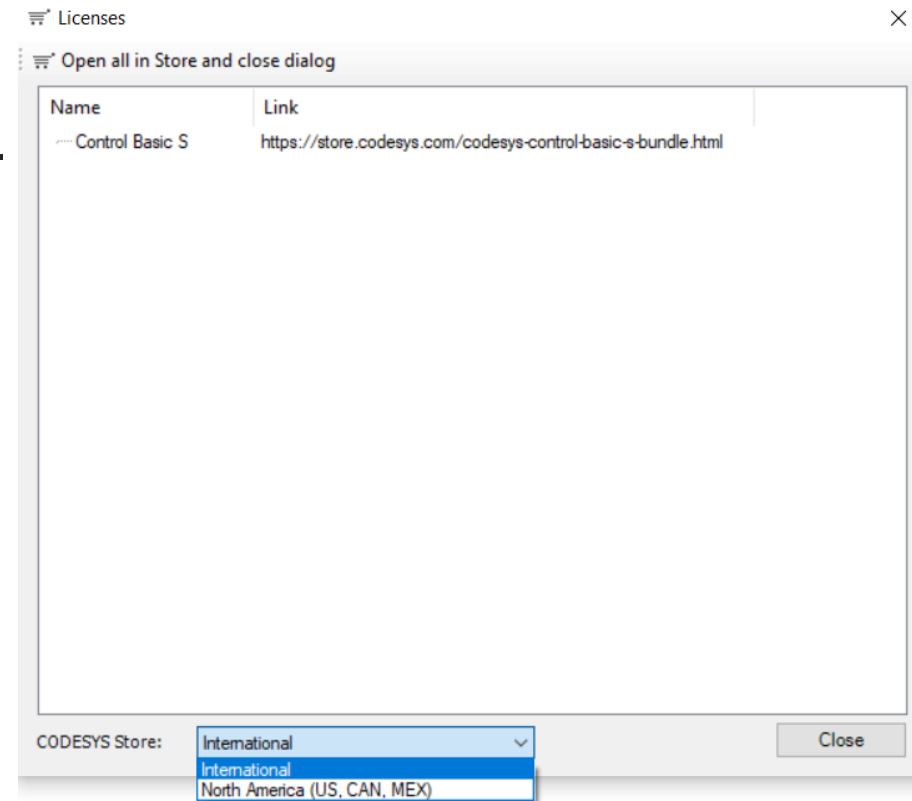


CODESYS Feature Briefing, October 2024
Christoph Brachmann, Product Manager

Application-based licenses (07/2024)

Usability improvements

- Find the required licenses in the Store based on your project.
- Released with V3.5 SP20 Patch 2



License Manager (V3.5 SP21)

Support of Network License Server (CodeMeter)

- Update of the graphical user interface to
 - support network licenses
 - increase usability.

Maintenance versions

- **LD FBD V4.5.0.0 (08/2024)**
 - Bugfixes and minor improvements
- **CFC V4.4.0.0 (07/2024)**
 - Bugfixes and minor improvements

SFC V4.4.0.0 (05/2024)

New feature: MetaSteps

- Feature needs to be activated in the project and SFC settings.
- When activated, a linked list of implicit variables is created that represents the complete SFC structure.
- Great opportunity to control your SFC POU during runtime by an application functionality.
 - Used by CODESYS POU Visu Generator to display SFC status in the visualization.

Ladder Editor V1.1.0.0 (10/2024)

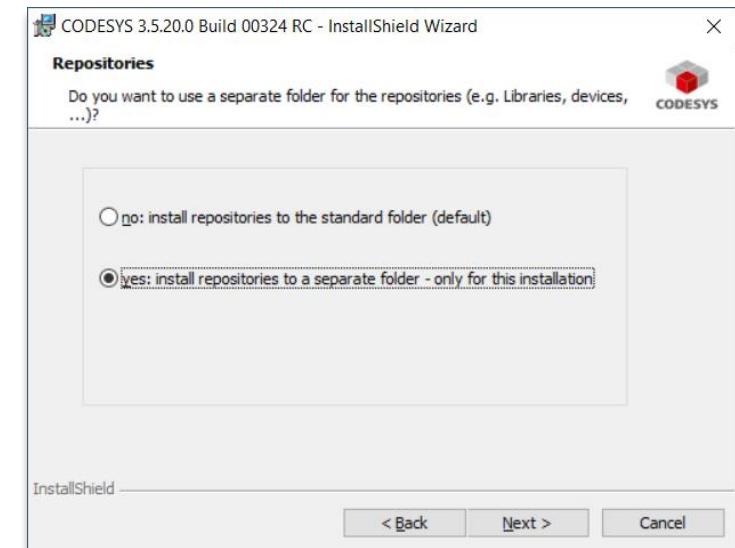
- **Usability improvements**
- **Maintenance version**

Package Designer V4.2.0.0 (06/2024)

- **Usability Improvements**
 - Possibility to add several device descriptions at one go
 - Warnings no longer prevent saving.
 - Increased performance to create packages
- **Maintenance**

Sandbox light (V3.5 SP20)

- **Currently, the CODESYS installations share one global PC repository for each type (devices, libraries, ...). This helps saving hard disk resources. However, it can influence the other installations and their projects if you do not follow certain rules.**
 - Installing a new version adds new artefacts to the repositories.
 - Existing projects of the older installation may use the new elements and thereby change the application code.
- **Independent, different CODESYS installations are required.**
- **Solution: Option in CODESYS Setup, custom mode.**



Sandbox installation – Installer 2.3.0 (10/2024)

Targets:

A CODESYS installation can be easily and quickly...

- ... archived (and later restored) or
- ... copied to another PC or
- ... distributed to other users,

while keeping its settings and artefacts (like libraries / devices).

It will have no impact on other installations.

The CODESYS Installer will manage sandboxes just like other installations.

CODESYS Library Documentation Support V4.6.0.0 | (10/2024)

- **Security update**
- **New feature:**
 - Documentation of all POUs in an application, similar to the library documentation of a library.

Scripting interface (V4.2.0.0, Q2/2025)

- The current scripting interface in CODESYS is based on IronPython 2.7.
- The new version of our add-on (V4.2.0.0) will support IronPython 3.4 in parallel.

CODESYS Trace (V4.2.0.0, 05/2024)

- **CODESYS Trace supports the automation of workflows using the scripting api of CODESYS.**
- **A new scripting driver for Trace is available. It allows to**
 - create traces
 - configure them by adding variables
 - control recording of the trace when online.

Deployment Server V1.7.0.0 (09/2024)

➔ Update to .net 8

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