

Release Notes - PA-Toolkit

Version: 3.2.0.150

Release Date: 2026-03-26

Overview

The PA Toolkit Package is available for the CODESYS development environment and CODESYS-based controllers and supports the implementation and visualization of applications. It provides extensive function blocks, visualization elements, and MTP-compliant exports and meets relevant industry standards.

Licensing and Purchasing Information

- **Updated License Purchasing Process:**
 - The license purchasing process has been updated. PA Toolkit licenses must now be purchased via the Festo online eXperience (FoX) instead of Festo App World. This change applies immediately to all new license purchases. Licenses previously obtained via Festo App World remain fully valid and functional, and no action is required from existing license holders.
- **Licensing Usage Notes:**
 - PA-Toolkit can be used without restrictions in CODESYS.
 - On controllers, the application runs in demo mode with 2 hours runtime without a license.
 - For unrestricted operation, a paid license from Festo is required.
 - License installation is performed via the Festo Automation Suite (download via the Support Portal).
 - If the license is not displayed in the Automation Suite, please click "Reload".
 - After license installation, a power cycle of the controller is required for the license to be recognized.
 - License status can be checked using the visualization element "hLicenseDefault".

Improvements and Bug Fixes

- **Function blocks:**
 - Extensive library with MTP-compliant function blocks for analog and digital inputs/outputs, valve controls, motor drives, process values, parameters, and more.
 - Significant performance improvement in the PID controller (PIDCtrl) for more efficient and stable control.
 - Extension of the existing function block DrvCtrl with new functions for speed measurement and force measurement.
- **Visualization:**
 - Symbols, faceplates, and a visualization style for easy creation of operator interfaces in CODESYS.
- **MTP Exporter:**
 - Export of visualization as an MTP-compliant file for integration into control systems with MTP importer.
 - Visualizations excluded from compilation are not considered by the exporter.
- **Service function blocks:**
 - External elements with which a service works are now specified as parameters in the initialization list of the object instance.
 - Definition and editing of elements possible via a wizard.
 - Configuration parameters and procedure parameters can be edited directly in the service faceplate.
- **Usability:**
 - Adjustment of symbol width for "TagName" and "License" to avoid overlaps and improve readability.
 - Restriction of clickable areas to visible parts of symbols to avoid unintentional operation.
- **Documentation:**
 - The PA Toolkit user manual, previously available only in German and English, is now also available in Chinese, French, Italian, Korean, Portuguese, Russian, and Spanish.
- **Standards:**
 - Implementation of relevant standards such as VDI/VDE/Namur 2658, ISO 11064-5, ISO 9241-110, and DIN ISO 7000.

Notes on Export

During export, issues may occur that trigger an information dialog, e.g:

- “Reason: There is no PealInformationLabel object in the project.”
- The warning “A signature could not be found.” is a CODESYS-related limitation in the precompiler.

Recommendation: Fix the errors and then recompile the project.

Notes on Visualization

When opening a faceplate in the visualization, it may be restricted to a small area of the visualization and appear clipped at the edge of this area. This behavior can occur when client animation is enabled.

To resolve the issue, client animation can be disabled:

- Open the Visualization Manager in the Devices view.
 - Disable the option “Support client animations and overlay of native elements”.
 - For more information see: [Client Animation](#)
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Notes on the Service Wizard

With multiple installed versions of PA-Toolkit packages, the Service Wizard may not use the most recently installed version. To avoid this behavior, it is recommended to uninstall all previous, unneeded package versions before installing the new version.

Known Limitations

- Without a license, the controller runs only 2 hours in demo mode; a restart is then required.
 - After the demo mode expires, function blocks are restricted and visualization settings are no longer possible.
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Compatibility

Controller Type	Required Firmware Version
CPX-CEC-C1-V3	4.0.4
CPX-CEC-S1-V3	4.0.4
CPX-CEC-M1-V3	4.0.4
CPX-E-CEC-M1-PN	3.1.4
CPX-E-CEC-M1-EP	3.1.4
CPX-E-CEC-C1-PN	3.1.4
CPX-E-CEC-C1-EP	3.1.4
CPX-E-CEC-C1	10.0.0
CPX-E-CEC-M1	10.0.0

Technical Details

- Supported CODESYS-Version: V3.5 SP12 Patch 6 pbF
- Supported browser for visualization: Chrome 81.0.4044.122 (64-bit)