Release Notes - PA-Toolkit
Version: 3.3.0.163
Release Date: 2026-10-27

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.

Improvements and Bug Fixes

- **Function block PID:**
  - The PID controller output no longer drops unexpectedly to zero when the process variable enters the configured deadband. It now maintains the calculated output and resumes normal control smoothly when the process variable exits the deadband.
  - Added a DeadbandDelay input. When the process variable enters the deadband, the PID controller remains active for the configured delay (5 seconds by default). If the process variable stays within the deadband for the entire delay, the controller switches.
  - Bumpless transfer now applies only when switching from manual to automatic control. Leaving the deadband or changing the setpoint preloads the integrator only.
- **Visualization MonAnaVlv and MonBinVlv:**
  - Fixed an exception that occurred during application startup when either faceplate was used. The faceplates now display and operate correctly in the visualization.
- **OPC-UA:**
  - Renamed legacy variables to align with the current naming convention: *.tmpV is now *.VAct, and *.tmpRpm is now *.RpmAct.
    Examples include AnaManInt.tmpV -> AnaManInt.VAct and MonAnaDrv.tmpRpm -> MonAnaDrv.RpmAct.

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

- “Reason: There is no PeaInformationLabel 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

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.

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)