CODESYS DEVELOPMENT SYSTEM
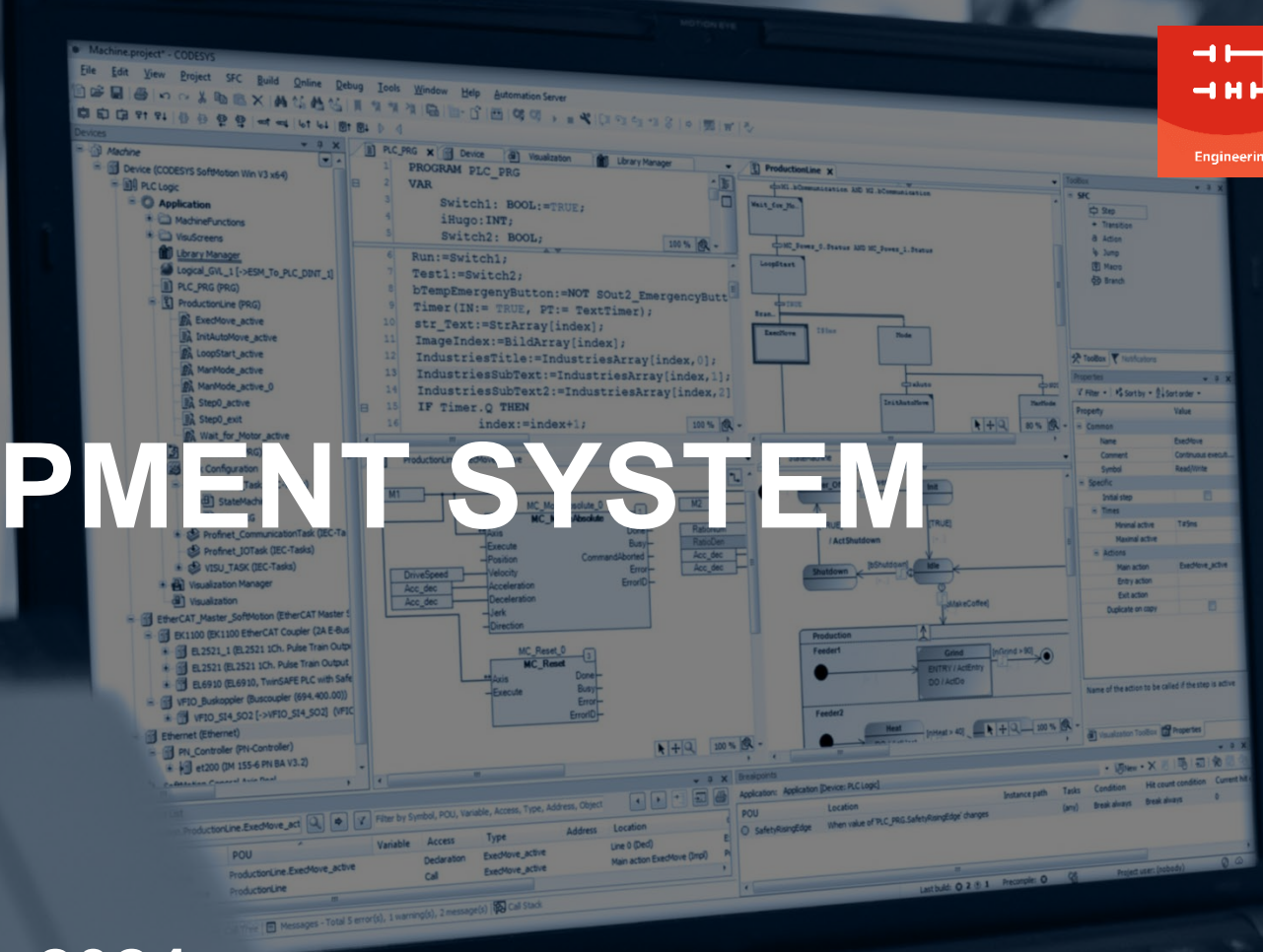
CODESYS Feature Briefing, March 2024

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CODESYS Group | We *software* Automation.

Discontinuation

- **Child applications are no longer recommended.**
- **From CODESYS SP20 on, no new child applications can be created.**
- **Existing applications with child applications will continue to work.**
- **Alternative recommendation:**
  - separate PLC instances
  - integrate child application in main application

Maintenance versions

- **SFC V4.3.0.0 (12/23)**

- **LD FBD V4.4.0.0 (02/24)**
- **LD FBD V4.5.0.0 (planned Q3 2024)**

- **CFC V4.4.0.0 (planned Q3 2024)**

New Ladder Editor V1.0.0.0 (02/24)

- **After the pre-release (version 0.9) in 07/23, this is the first official release.**
    - Supports refactoring, bookmarks, printing, documentation, context-sensitive help
    - Still missing functions: scripting, project localization
- **Will be part of V3.5 SP20 setup**
- **Networks can be converted from the old to the new Ladder.**
- **The existing LD/FBD editor will continue to work as before.**
- **Recommendations for use:**
    - Keep using LD/FBD for FBD.
    - Use the new Ladder editor for Ladder diagrams and for new projects.
    - If your existing LD POUs are stable, you do not need to update from LD/FBD to the new Ladder.
    - When reworking a project, consider to update also the LD implementation.

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, changing their application code.

- **We need a mode that makes sure that adding and removing a CODESYS version will have no impact on the other installations.**

- **Solution: option in CODESYS Setup, custom mode**
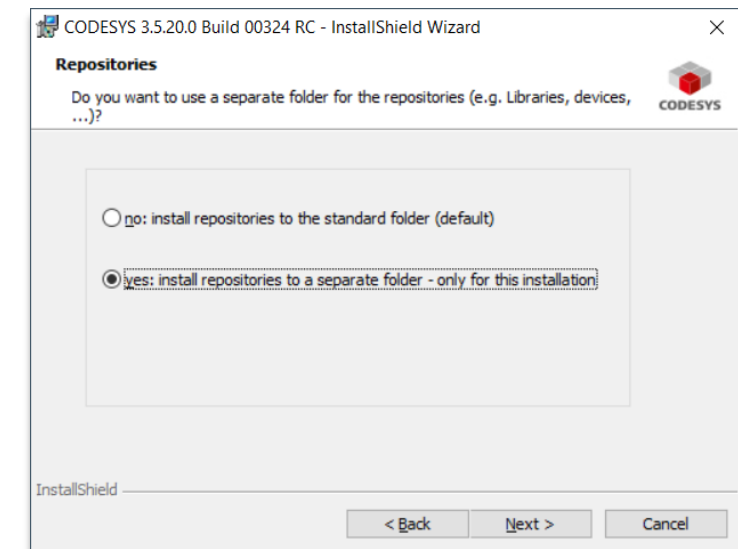
Sandbox installation (planned for Q2 2024)

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 like other installations.

Deployment Server for Automation Platform users (12/23)

- **The CODESYS Installer connects to the CODESYS Deployment Server in order to download setups and packages.**

- **So far, there was only one Deployment Server instance that was hosted by CODESYS.**

- **Providers of customized CODESYS versions can now host their own Deployment Server to provide their own artefacts.**

Usage Analysis V1.1.0.0 (03/24)

- **User survey**
  - Now and then, this add-on will ask users a maximum of three simple questions.
- **Users will be asked upfront if they are willing to participate.**
- **The functionality can be switched off completely.**

Your feedback is important to us.

Please support this new functionality!

Scripting Interface (5.0.0.0, planned for end of 2024)

- The current scripting interface in CODESYS is based on IronPython 2.7.
- The new version of our plug-in (5.0.0.0) will support IronPython 3.4 in parallel.

Trace (4.2.0.0, planned for 04/24)

- Scripting support

Thank you for your attention!

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