



# CODESYS ENGINEERING

## Application Products



CODESYS Feature Briefing, October 2024  
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## Library landscape

- **CODESYS Base Libraries 1.0**
  - Released in June
  - 2<sup>nd</sup> library add-on (after String Libraries 2023)
  - 6 existing, often needed CODESYS libraries
    - 5 successors of CAA libraries
  - SP21: add-on in setup  
+ references in projects updated automatically
  - 2025: include also *Memory Block Manager*
  
- **Discontinuation of 6 CAA libraries**
  - 3 libraries related to the previously announced 6 will also enter service phase in 2026 (SP22)
  - No successors: Better ways to achieve the same
  - SP21: Guidelines

Base Libraries	CAA
Shared Data Utilities for Multicore	
Net Base Services	CAA Net Base Services
Element Collections	CAA List And Tree
Async Job Manager	CAA Async Manager Extern
Common Behaviour Model	CAA Behaviour Model
Segmented Buffer Manager	CAA Segmented Buffer Manager Extern
Memory Block Manager	CAA Memory Block Manager Extern
	CAA DTUtil Extern
	CAA Real Time Clock
	CAA FB Factory

SysTimeRtc  
\_\_VFINIT() + FB\_INIT()

## CODESYS OPC UA Client API

- **Initial release in March** (see previous Feature Briefing)
- **Free library (installer)**
- **For using OPC UA Client functionality in runtime**
  - Connection to the server
  - Variable access (subscription, read, write)
- **Update in August (1.1)**
  - Finish support of variable access: also ARRAYs of user-defined STRUCTs

## Control Loop Library

- **Free Store product**
- **Functions for process control and signals processing**
- **Update in August (1.0.1)**
  - Four transfer functions of control theory: PT1, PT2, IT1, DT1
- **2025: Convert into normal add-on (installer)**

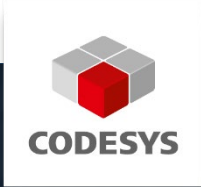
## Maintenance

- **... of CODESYS IIoT Libraries**
  - in May (1.10) and August (1.11)
- **... of Android apps**
  - CODESYS Web View** (2.13)
  - CODESYS Sensor App** (2.26)
  - CODESYS Forge** (20240821)
  - in April and August (Developer Program Policies / Android 14 API)
- **... of OSCAT's store library "OSCAT Basic"** (3.3.5)
  - in September (provide OSCAT's security fix)

## Current Work

- **CODESYS Simulation Interface** (1.0)
  - Development of basic functionality is reaching the end
  - Preparing to show multiple simulation tool integrations on SPS fair (prototypes)
  - New release date: January 2025
  - Requires PDE license
- **Update of Application Composer**
  - Moved to March 2025





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