# CODESYS ENGINEERING

Compiler Features

CODESYS Feature Briefing, October 2024
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Warnings as errors

- **Ideal: Projects should be free of warnings.**
  - Warnings might indicate unexpected or unintended behavior.
- **Difficult to enforce as a rule in the past**
- **From V3.5 SP21 onwards, warnings can be reported as compiler errors instead.**
- **Can be configured per warning.**
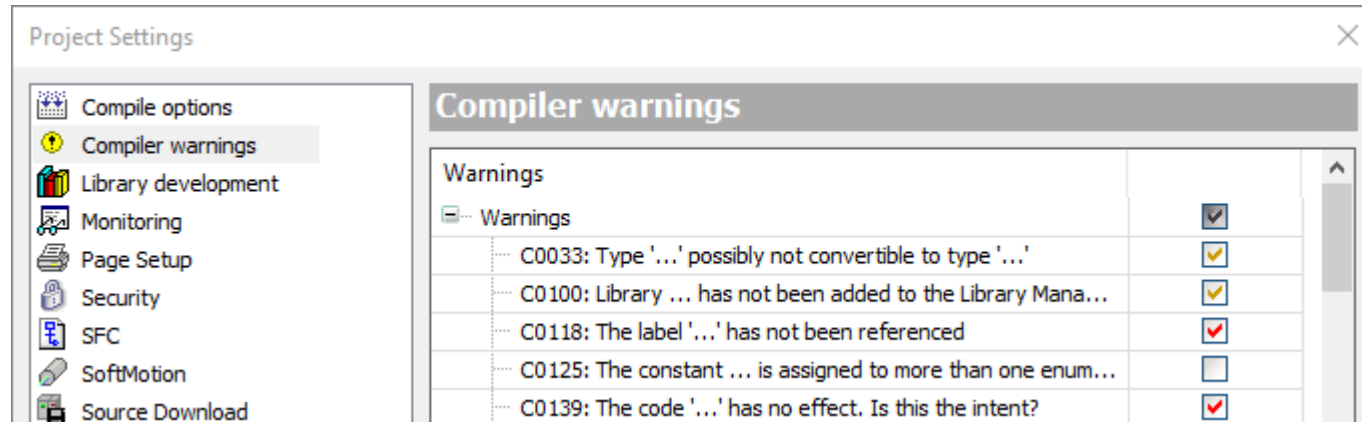
Configuration of usable stack size

- **The stack is temporary memory used during the execution of a task when programs and functions are called.**

- **Stack memory is limited – excessive usage can crash the application.**
  - Stack usage depends on the control flow of the application.

- **Stack usage is checked during compilation.**
  - In case the limit is reached, the compiler shows the according call stack.

Configuration of usable stack size

- ▪ **From V3.5 SP21 on, stack usage will be displayed in the task configuration.**
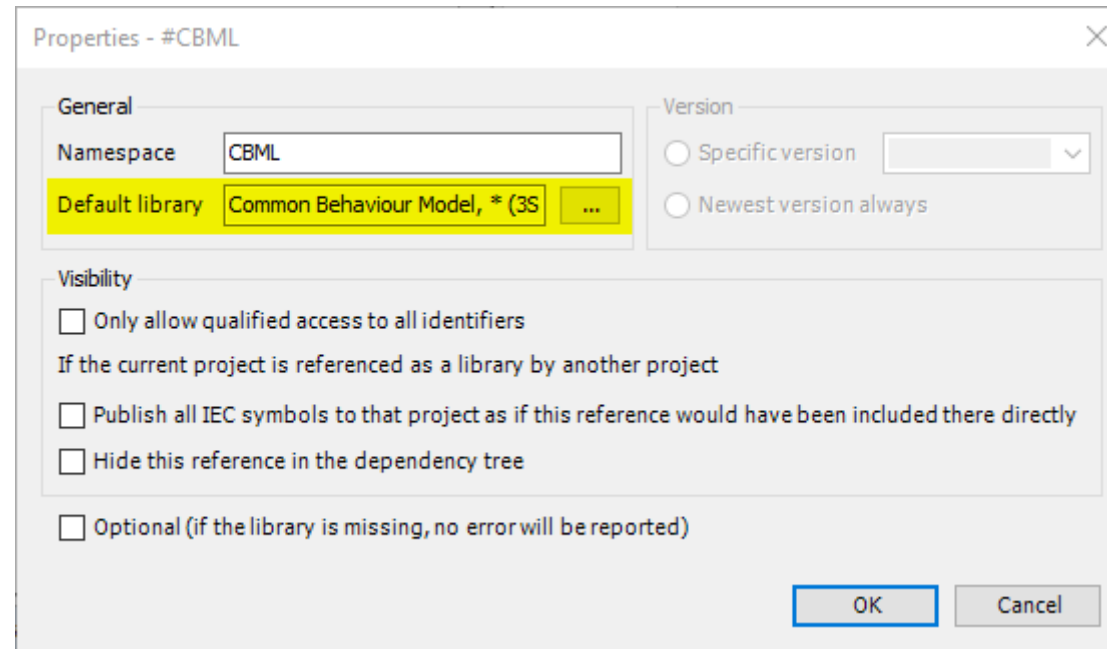- ▪ **For a defined task, the usage limit of a stack can be increased.**

Default resolution of library

- **Obsolete feature since V3.5 SP18**
- **Library placeholders in the POUs are handled as unbound placeholders.**
- **The setting will be removed in V3.5 SP21.**
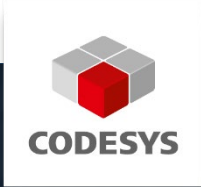
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