

## **Vorstellung Projekt Contract Based Design with Eclipse eTrice**

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Thema: Managing complexity through enhancement of MBD

The increasing complexity is the biggest problem in the development of today's software systems. Model based design (MBD) and model based testing (MBT) is very important, but often not sufficient to master the complexity.

Contract based design (CBD) is the next step. Where MBD is analytical, CBD is synthetical. Contracts specify e.g. functionality, safety, timing and resources for components and their assembly. The resulting system is much simpler to verify through model checking, test generation and generation of bullet proof interfaces.

The presentation ends with a demonstration of the Eclipse project eTrice and its implementation for some contracts that can be verified with model checking.