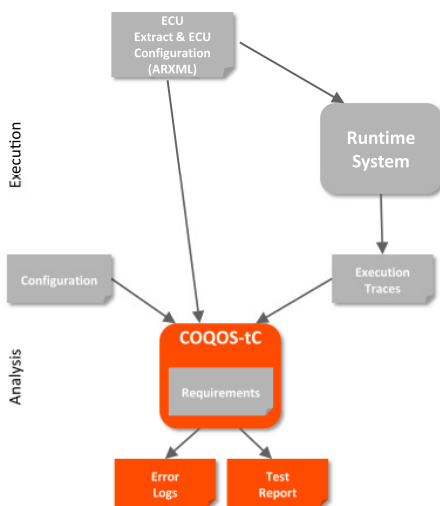




COQOS-tC is an analysis tool that automatically verifies the AUTOSAR compliance of AUTOSAR Software-Components and the AUTOSAR RTE. COQOS-tC enables a novel approach to compliance testing, which decouples the task of configuring and stimulating the system from the ensuing analysis of the observations against the AUTOSAR requirements.

How does COQOS-tC work?

COQOS-tC requires two things to perform its analysis: a description of the ECU-Configuration (in ARXML format) and an "execution trace" obtained from observing a running AUTOSAR ECU. The execution trace can be obtained automatically from COQOS-tP or easily from any RTE that supports VFB-tracing. COQOS-tC analyzes the static models and performs an internal simulation to verify whether the observed dynamic behavior (as recorded in the traces) complies to AUTOSAR.



Use-Cases

COQOS-tC is designed as a flexible, configurable tool that can be applied in different use-cases, such as:

- Verifying whether an AUTOSAR Software-Component (consisting of an implementation and a corresponding software-component description) complies to AUTOSAR
- Verifying whether an RTE-Generator complies to AUTOSAR
- Tracking down problems in a deployed system

What requirements does COQOS-tC check?

COQOS-tC checks all the requirements that AUTOSAR imposes on an AUTOSAR Software-Component and on a generated RTE. These requirements include simple and complex constraints on the models, consistency between the models and the actual observed implementation as well as restrictions on the dynamic behavior of the RTE or the Software-Component.

Reporting and logging

COQOS-tC produces a detailed test-report in HTML format. The report contains information on the status of each AUTOSAR requirement, as overview-tables and in detail. The report provides links to detailed log-files that make it possible

to find (and fix) problems with the analyzed software-components or the RTE.

Features

- Compatible with AUTOSAR 3.1 ¹
- Is aware of all relevant AUTOSAR requirements on the RTE and SW-C
- Directly reads in AUTOSAR 3.1 ARXML files
- Available as a command-line tool easily integrated with existing build- and test-systems
- Seamless integration with COQOS-tP but can also be used with any RTE-generator that supports the VFB-Tracing functionality
- Implemented with Eclipse and ARTOP
- Supported tool-platform: Linux Ubuntu x86 9.10

¹ Detailed compliance sheet delivered with product

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