



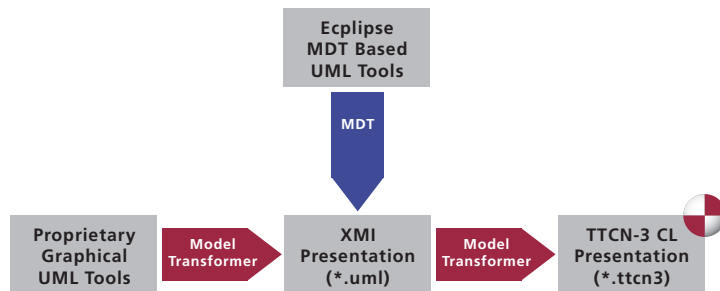
# TTmodeler

## Model-Based Testing with UTP and TTCN-3

TTmodeler integrates the model-based system and test design and creates a direct, automated connection to the powerful test development and execution environment TTworkbench. The UML Testing Profile (UTP) defines additional model elements for UML, which allow to define specifications of test objectives, test procedures and test valuations for systems and system components. UTP is a vital component for the alignment of system and test development methods. It contributes to the concept of model-centric systems design: System models and test models can be developed and aligned in all system development phases.

### Highlights/Features

- TTCN-3 mapping of UML Testing Profile
  - Extension of test development life cycle with model-based concepts
  - Generation of TTCN-3 code from UTP test models
- Embedded in TTworkbench
  - Immediate use of TTCN-3 based test implementation and execution tools
  - TTCN-3 test management available for UML2 and UTP based systems
- Widely used graphical UML tools integrated
  - Eclipse-based e.g. IBM Rational Software Architect (RSA), TOPCASED
  - Non eclipse-based e.g. Sparx Systems Enterprise Architect (EA)
- In-line with Eclipse concepts and open to Eclipse modeling tools (e.g. MDT- Model Development Tools)



Principle Architecture

### Benefits

- Alignment of system design and test design
- Model-driven system development approach
- Direct automated execution of test models
- Standards-based testing with TTCN-3 and UML testing profile