



## ReqT in the CERBERO H2020 EU Project

ReqT is part of the SAGE Verification suite and it is integrated into the CERBERO toolchain to provide requirements-based testing of Cyber-Physical Systems models.

### It is Open!

ReqT code is completely open, the repository is available at https://gitlab.sagelab.it/sage/ReqT

More info at: https://gitlab.sagelab.it/sage/ReqT



# ReqT

ReqT is an open-source tool for automatic testing. It uses a formal specification to chose which action to perform on a system and to evaluate its response.

### **Stay Tuned and Contact Us!**

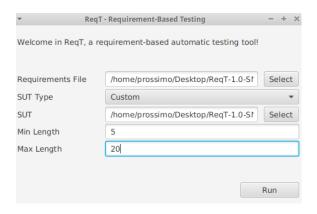




This work has received funding from the EU Commission's H2020 Programme under grant agreement No 732105

## **Simple Interface**

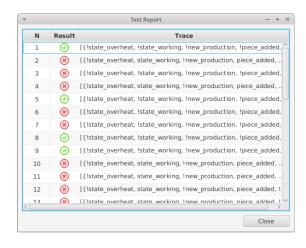
ReqT provides a simple Graphical User Interface (GUI) to perform automatic testing with respect to a formal specification. The user just needs to indicate the specification to use and the system to test, plus few optional parameters to set the algorithm.



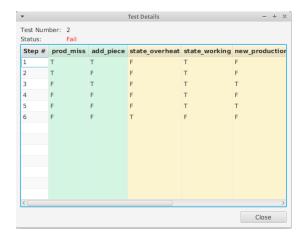
Pressing the Run button, ReqT start the **generation and execution of tests** on the system under test.

#### **Tests Reporting**

At the end of the process, ReqT generates a report with the list of all executed tests and their status.



Each test can be analysed in details by just double clicking on it.



#### **Specification**

Requirements can be expressed in Linear Temporal Logic (LTL) or as Property Specification Patterns (PSP).

The specification can easily be defined and verified with **ReqV**, part of the SAGE suite.

#### **System Under Test**

ReqT accepts a System Under Test (SUT) either as a model in Kiss or Smv format, or as a **generic Java class**, extending the SUT class defined in the **SpecPro** library (also part of the SAGE suite).