Validation Tool

Datasheet – Rev. 3

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CP_R2_019 F

straton



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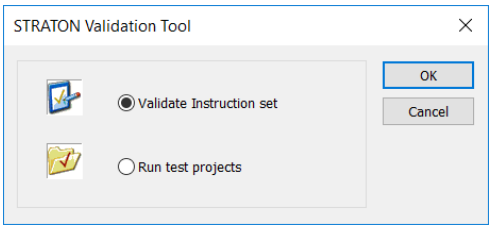
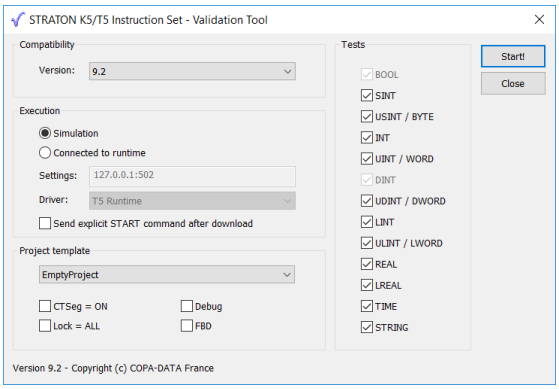
1. Overview

The straton software Validation Tool is designed for OEMs wanting to automate the validation of straton instruction sets, create test applications and automate regression testing in order to identify changes affecting the runtime behavior.



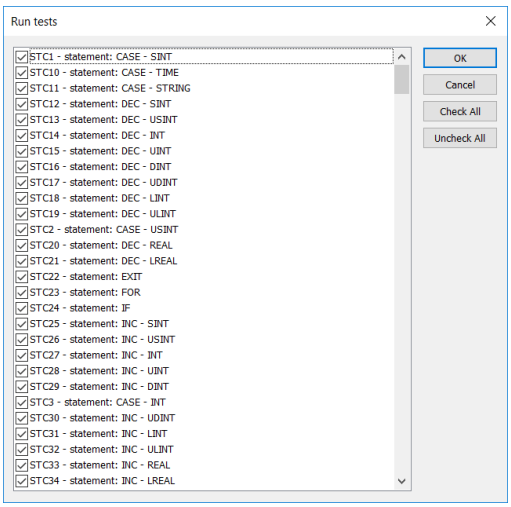
2. Automatic testing of basic instructions and standard functions/FBs

This represents more than 300 basic programs, each of those running from 1 to 10 individual tests.



For each test program, the Validation Tool automatically:

- creates a new project using the straton database
- declares variables, programs and fills programs
- compiles the application using the straton compiler
- connects to the runtime and download the application using the straton networking interface
- forces values and checks results using the straton networking interface



The test stops after the first error.

The tool provides a complete listing of:

- all test programs in ST format
- all test cases and results.

The tool can be run with various compiling options.
Some tests can be skipped if some data types/features are not implemented in the runtime.

3. Automatic testing by running a set of pre-written application

The tool automatically chains the testing of a set of applications. Each application is stored as an XML export file.

For each test project, the Validation Tool automatically:

- extracts the project from the XML file using the straton DataBase
- compiles using the straton compiler
- connects to the runtime and download using the straton networking interface
- waits for OK or FAIL information.

The test stops after the first error.

The tool is delivered with a set of sample test projects that can be enhanced with user applications.