



## **World's first requirements-based test suite for the C standard library to be showcased at Embedded World 2022**

**Amsterdam, The Netherlands – 9 June 2022** – The benefits of SuperGuard, the world's first specialist requirements-based test suite for the C standard library, will be showcased by Solid Sands to visitors during the Embedded World show in Nuremberg from 21-23 June 2022 at hall 4, booth #4-421.

The event will see the company's CTO, Marcel Beemster, give a presentation entitled: 'A requirements-based test suite for the C Standard Library: SuperGuard', on Wednesday 22 June at 4pm. He will discuss the principles and practice of library qualification.

Launched last year, SuperGuard offers complete traceability from individual test results back to requirements derived from the ISO C language specification. It also offers high structural code and branch coverage out of the box. This ensures the safe use of the standard library in safety-critical applications such as automotive and rail.

This product maintains the documentation required to deliver information and transparency as specified by international certification authorities. It can be used to qualify both unmodified third-party C library implementations and self-developed or self-maintained implementations.

SuperGuard was developed by Solid Sands as a response to a lack of professional tools for library qualification for customers developing safety-critical applications.

It ideally complements Solid Sands' SuperTest, a complete, acclaimed test and validation suite for C and C++ compilers and libraries which has tracked ISO language specifications for more than three decades.

Marcel Beemster explained: "A key characteristic of C is that it has a widely recognised ISO specification, which contains all the information needed but does not provide a list of requirements. We used the ISO specification to create a list of requirements and test specifications, matching those with our existing test suite.

"Finally, we created tools to drive the test suite and report results so they are fully traceable to the requirements and specifications.

"Functional safety standards clearly specify that qualification must be done for the application developer's use-case – and SuperGuard makes this possible."

– END –



### **About Solid Sands**

Founded in 2014, Solid Sands is the one-stop shop for C and C++ compiler and library testing, validation and safety services. Solid Sands offers extensive test and validation suites with a unique level of compiler and library test coverage, enabling customers to achieve the software tool quality level demanded by ISO standards. The company's name combines sand – the world's most abundant source of silicon – with the solidity and security expected of sector-leading testing and validation technologies. More information on the company's products and services is available at [www.solidsands.nl](http://www.solidsands.nl). You can follow Solid Sands on [LinkedIn](#), [Twitter](#) and [YouTube](#).

### **Media Contact:**

#### **Solid Sands B.V.**

Marianne Damstra

[marianne@solidsands.nl](mailto:marianne@solidsands.nl)