

Coverity Qualification Kit

The Coverity Qualification Kit ensures Coverity is configured and operating properly within the customer's build environment.

Organizations that need to achieve ISO 26262 compliance must ensure that the tools they use to test their software for road vehicle functional safety are installed, configured, and operating properly within their software development environments. The Coverity® Qualification Kit ensures that Coverity static analysis meets your organization's appropriate tool confidence level.

For ASIL D development, teams that must perform tool validation according to ISO 26262 Part 8-11 ("Confidence in the use of software tools") need to complete tool validation within their build environment. This helps ensure that safety-critical defects are not missed due to installation or configuration errors.

Coverity Safety Capabilities

Coverity is certified by TÜV SÜD Product Service GmbH as meeting the requirements for support tools according to IEC 61508-3. It is qualified for use in safety-related software development according to ISO 26262, IEC 61508, EN 50128, and EN 50657. And it is classified as T2, for use up to ASIL D in accordance with ISO 26262:2011-8.

The documentation pack for the Coverity distribution includes the necessary functional safety manual, which describes tool operation and failure modes—including the risk of misconfiguration, and of false positives and false negatives.

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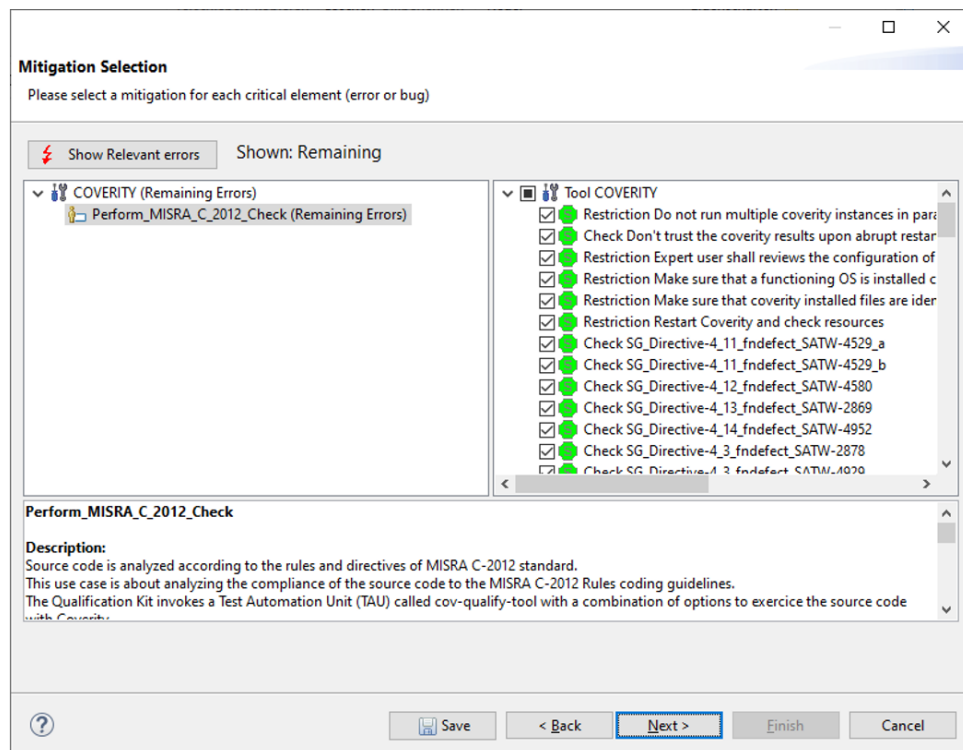
The Coverity Qualification Kit helps prevent errors in safety-critical software development by

- Ensuring Coverity is operating as expected within the end-user build environment that is used to create the software
- Providing a self-test function that describes which tests were run and the results of those tests to validate the tool is configured properly
- Generating a report to show proof of compliance with this requirement

The qualification process is consistent with the recommendations of ISO 26262 Part 8-11.4.9.

The Coverity Qualification Kit helps minimize the likelihood of critical issues in accordance with ISO 26262 requirements.

The Coverity Qualification Kit has been designed to make it easy for Coverity users to verify that the tool is operating properly and configured to identify any safety-critical defects.



The step-by-step interface allows users to

- Specify which tests are required to run
- Select specific checkers and coding rules for the project
- Provide a summary of test cases
- Report on the pass/fail status of tests that are executed
- Generate reports to validate compliance

Software continues to be a key driver of innovation in the automobile industry, controlling everything from safety-critical systems to virtualization and infotainment systems. With the proliferation of code within the vehicle, the risk of potentially dangerous defects will only increase. The Coverity Qualification Kit will help minimize the likelihood of critical issues by ensuring that Coverity's static analysis operates effectively to identify software defects in accordance with ISO 26262 requirements.

To learn more about ensuring compliance with ISO 26262 requirements, see the white paper "[Meeting ISO 26262 Guidelines with the Black Duck Portfolio.](#)"

About Black Duck

Black Duck® offers the most comprehensive, powerful, and trusted portfolio of application security solutions in the industry. We have an unmatched track record of helping organizations around the world secure their software quickly, integrate security efficiently in their development environments, and safely innovate with new technologies. As the recognized leaders, experts, and innovators in software security, Black Duck has everything you need to build trust in your software. Learn more at www.blackduck.com.