Coverity Qualification Kit

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

® 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 ("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 static analysis 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.

Coverity Qualification Kit

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

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- 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.