EXAM ISO 26262 QKit

Qualification kit for toolchains according to the ISO 26262 standard

EXAM QKit

» **Create safety documentation for EXAM**
» **Reliable EXAM qualification by the manufacturer**
» **The best prerequisite for certification of the entire toolchain**
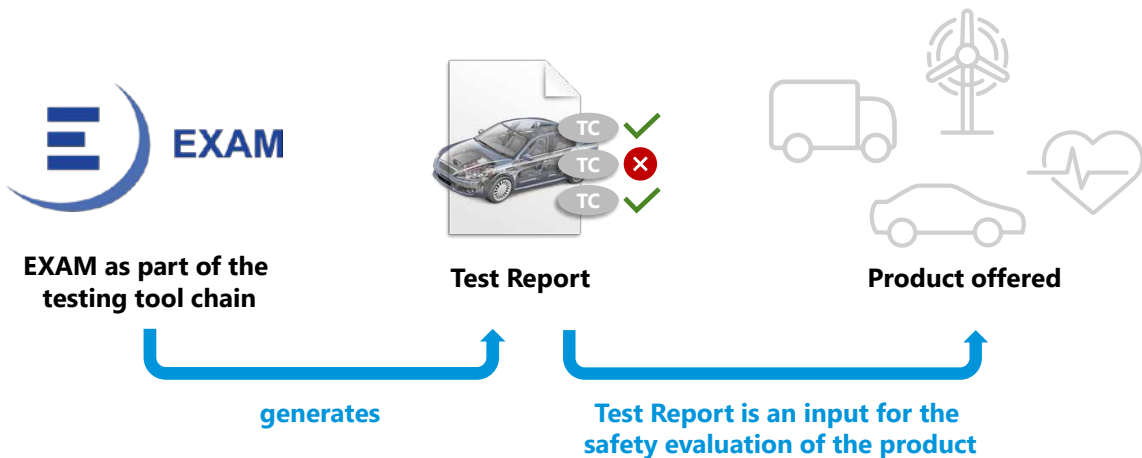
EXAM QKit

The EXAM ISO 26262 QKit simplifies the qualification of toolchains according to the ISO standard for the use of the test automation software EXAM in automotive projects.

As more software and electronics are integrated into vehicles, the risk of malfunctions that could potentially endanger the health or even the lives of drivers increases. Due to strict government regulations, car manufacturers and suppliers must therefore adhere to strict specifications, of which the ISO 26262 standard for functional safety is the cornerstone.

This standard contains additional requirements for all automotive systems that contain electronic control units and software components if these are responsible for the life cycle of safety-relevant systems. The specifications relate, for example, to development, production, management and service processes and are intended to minimize potential hazards that could be caused by malfunctions in the E/E safety system.

EXAM plug-in for functional safety

In collaboration with Validas AG, a recognized expert in library and tool qualification and a preferred partner of TÜV Süd and TÜV Nord, MicroNova has developed a plug-in for functional safety: the EXAM ISO 26262 QKit (EXAM QKit for short). This EXAM extension can be used to create ISO 26262 safety documentation for the test automation solution. Doing so qualifies this part of the validation chain for automotive manufacturers' and suppliers' ECU development processes.
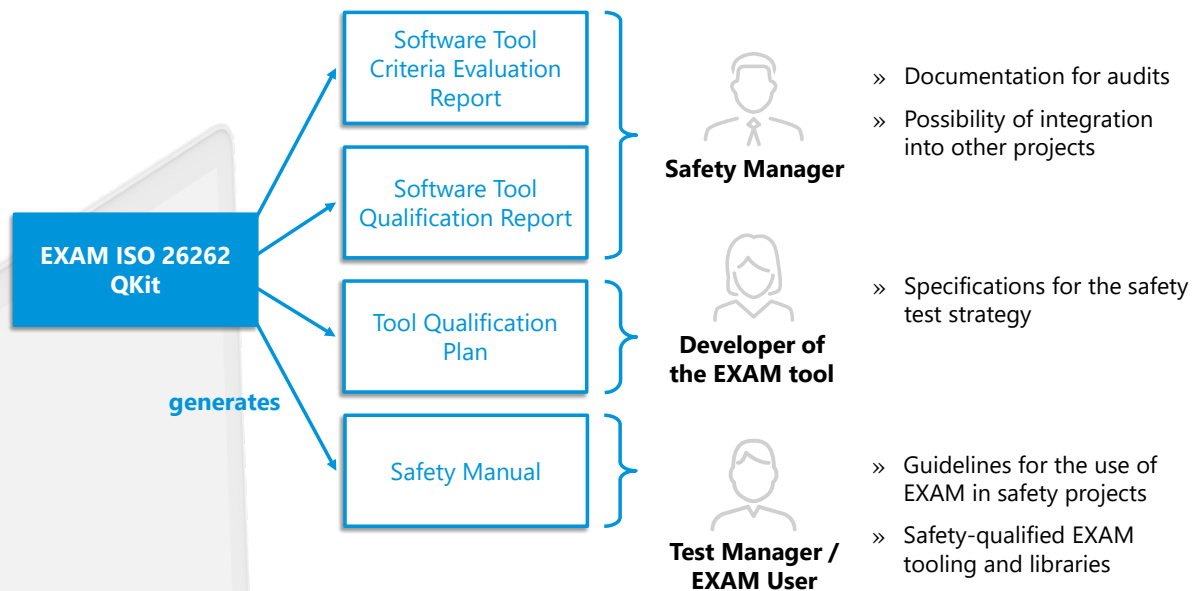

| EXAM as part of the testing tool chain | Test Report | Product offered |

generates Test Report is an input for the safety evaluation of the product

1 All influences on the test report are considered to be safety-critical.

Tool Qualification with the EXAM QKit

Significantly simplified tool qualification: The EXAM QKit minimizes or eliminates the need for an EXAM user to qualify the testing automation for each new tool version. The corresponding test cases are already created by MicroNova and automatically executed in EXAM.

Safety Manual for test execution: A manual supplied with the EXAM QKit makes it easier to carry out product-specific safety tests. This Safety Manual explains to test engineers how to use EXAM in accordance with ISO 26262 specifications.

ISO-TÜV qualification: Automotive manufacturers and suppliers using the EXAM ISO 26262 QKit can be sure that the use of the EXAM tool is appropriately qualified and can also be certified if required. The long-standing cooperation between Validas and TÜV Süd further simplifies the certification process.

EXAM ISO 26262 QKit

generates

Software Tool Criteria Evaluation Report

Software Tool Qualification Report

Tool Qualification Plan

Safety Manual

Safety Manager

» Documentation for audits
» Possibility of integration into other projects

Developer of the EXAM tool

» Specifications for the safety test strategy

Test Manager / EXAM User

» Guidelines for the use of EXAM in safety projects
» Safety-qualified EXAM tooling and libraries

2 Components of the EXAM ISO 26262 QKit

MicroNova: Your Partner for Functional Safety

Functional safety has become an indispensable component for the automotive industry. In cooperation with an experienced partner, MicroNova offers the EXAM ISO 26262 QKit as a solution for functional safety requirements. In addition, experts from "MicroNova Consulting" support companies with safety concepts, processes, and tool qualification. This enables automotive manufacturers and suppliers to maintain their ability to act while reducing complexity and costs in development.

Licensing model

For detailed information on the EXAM ISO 26262 QKit license model and MicroNova's consulting services, please contact us on +49 8139 9300-0 or sales-testing@micronova.de.

Consulting
Tool validation without EXAM: During a series of training courses and workshops as well as during development tasks, MicroNova's consultants have gained extensive experience in how the tools and processes of the EXAM ISO 26262 QKit can also be used for the validation of other tools. This enables them to take the necessary steps to qualify any tool with and for customers using Validas' documented and TÜV-certified compliance method.

Contact
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For further information please visit our website at:
www.micronova.de/exam