

Tool Qualification Support Pack®

A compliance data package that is used for the qualification of LDRA verification tools

DO-178C §12.2.1 states that “The purpose of the tool qualification process is to ensure that the tool provides confidence at least equivalent to that of the process(es) eliminated, reduced, or automated.” In essence, tool qualification is a process by which the user proves the capabilities of a tool to properly perform its tasks once, thereby eliminating the need to verify the tool’s performance whenever it is used in the development of airborne software.

LDRA DO-330 Compliant Tool Qualification Support Packs

There are three LDRA tool suite capabilities that have TQSPs associated with them:

- Statement, Decision & MC/DC Structural Coverage Measurement.
- Code Review (for Coding Standards compliance).
- Data Coupling and Control Coupling (DCCC) Structural Coverage Measurement. *

Each TQSP is independent, and may be used separately or in conjunction with the others.

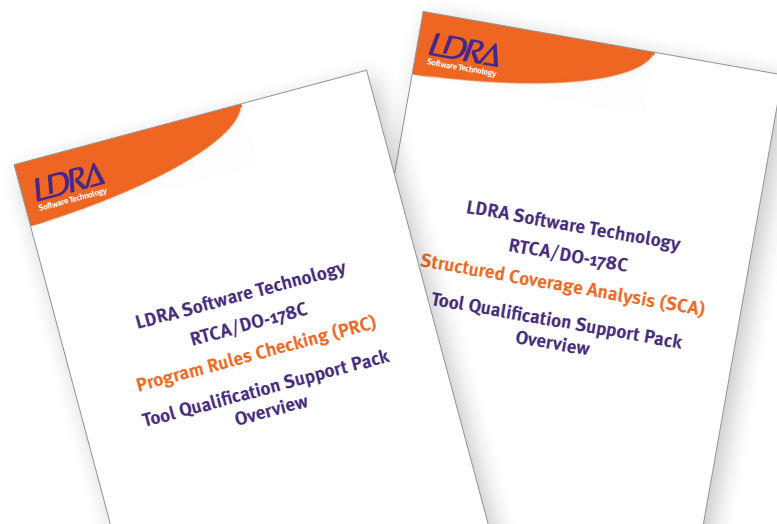
***LDRA is the only company that offers a qualifiable Data Coupling and Control Coupling solution**

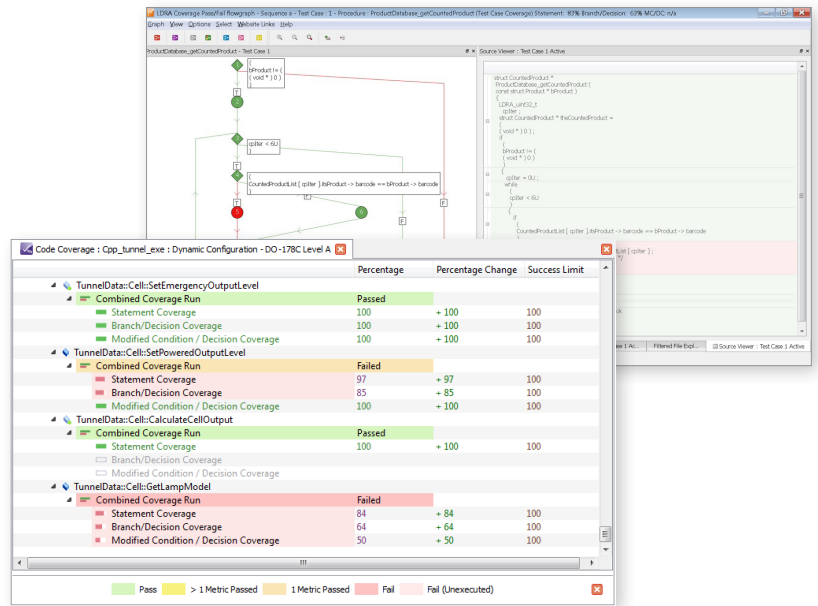
Features

- Proven in use on hundreds of programs requiring Level A certifications.
- Support for multiple development languages: C/C++, Assembler, Ada83/Ada95.
- LDRA TQSP’s provide the documentation needed to fully support the tool qualification process and remove the burden of tool qualification.
- Documentation and validation of LDRA tools on your target system to provide the required compliance data and high assurance of quality.
- Direct support and oversight from the LCS FAA DER Team.
- Clean, clear documentation, fully compliant with DO-330.

Benefits

- Assured Compliance.
- Documentation – ready for submittal to regulatory authorities.
- Provides the end user with nearly 95% of compliance data that they will need to present to regulators.
- Schedule reduction up to 80% saving developer time and cost.





The LDRA tool suite is TÜV SÜD Certified

Data included with an LDRA TQSP (for more information please request the TQSP white paper with the contact details below)

TVP	Tool Verification Plan. This document identifies the user's required activities for tool qualification in a step-by-step fashion, including instructions on how to complete the template documents in the TQSP and how to assemble the required verification data to support qualification in their tool operational environment.
TQP	Tool Qualification Plan. This document describes the tool, its function, and how it relates to the user's certification. The user completes sections of the document to customize it to their project.
TOR	Tool Operational Requirements. User-level requirements designed by a Level A Software DER to correctly reflect the requirements for measuring statement-related structural coverages (including statement, decision, and MC/DC).
Test Suite	Test scenarios designed by LDRA to show tool compliance to the TORs in the tool operational environment. The user executes these test scenarios as part of the qualification effort.
TAS	Tool Accomplishment Summary. This document summarizes the activities performed in support of tool qualification. The TAS includes tool configuration identification and installation reports.

For more information or to arrange a demonstration

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