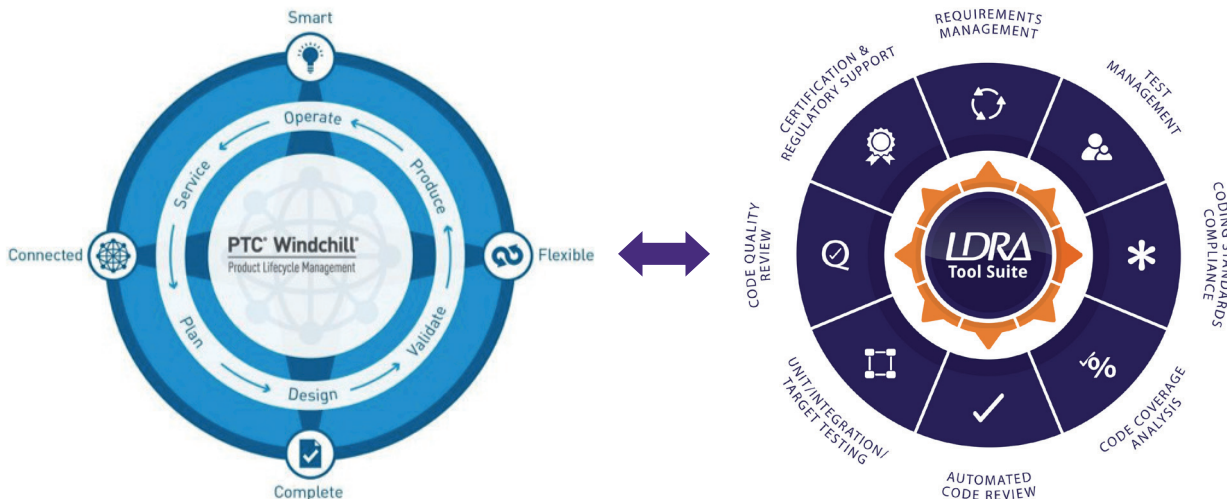


LDRA tool suite® and PTC® Windchill® integration

LDRA has integrated its tool suite with PTC Windchill to deliver an embedded software quality solution offering Product Lifecycle Management (PLM), automated code analysis, testing, coverage analysis, and report generation, correlated with bidirectional traceability between requirements, code, and test artefacts. The LDRA tool suite and PTC Windchill exchange data to support industry specific development processes, reduce the cost of testing, and improve code quality, safety, and security.



Benefits

- provides a PLM framework for the software validation and verification of real-time embedded systems
- identifies code flaws using the LDRA tool suite, and logs, prioritizes, assigns and tracks them using PTC Windchill
- delivers end-to-end bidirectional traceability between requirements, design, code and tests artefacts
- efficiently automates static analysis, dynamic analysis, unit testing, structural coverage, test case creation and on-target hardware execution
- greatly increases efficiency in software testing and reduces cost through automation and tool collaboration
- rapidly performs post execution analysis and reviews with unique perspectives from both the LDRA tool suite and PTC Windchill
- supports certification for process standards including DO-178B/C, ISO 26262, IEC 61508, and IEC 62304

Solution Details

- imports PTC Windchill PLM requirements and test cases into the LDRA tool suite, complete with comprehensive traceability links
- exports LDRA tool suite test cases, verification status, and execution test results to PTC Windchill PLM
- integrates MISRA, CERT and other coding standards into development environments that require evidential artefacts relating to safety or security standards
- automates test case, harness and stub generation for robustness testing
- exposes high-risk areas and defects by way of automated code analysis and report generation
- is supported by Windchill's change and configuration management
- creates traceability links by drag-and-drop
- provides object code verification for the most demanding safety-critical applications
- is underpinned by LDRA's ISO 9001:2015 certified Quality Management System, and the LDRA tool suite's TÜV SÜD and SGS-TÜV Saar certification