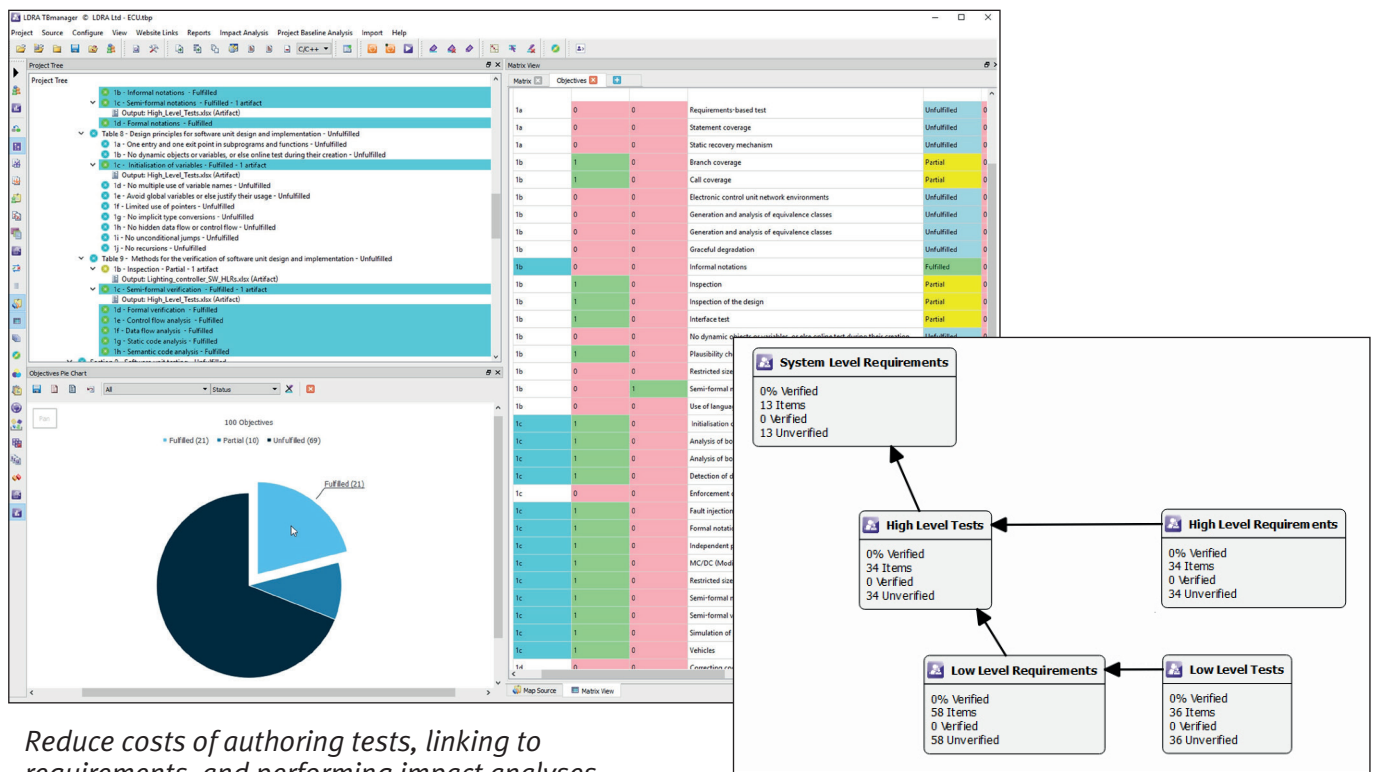


Collaborative, requirements-based development and verification with TBmanager®

TBmanager provides a flexible way to link requirements, design, source code, tests, analyses and associated artefacts within the software development lifecycle. By integrating requirements management, ALM and development tools with the LDRA tool suite, TBmanager provides the bidirectional traceability and impact analysis features required to meet functional safety and cybersecurity standards while reducing development cost, risk and time-to-market.



Reduce costs of authoring tests, linking to requirements, and performing impact analyses

Benefits

- provides the multi-level and bidirectional requirements traceability features required by functional safety and cybersecurity standards
- detects changes to requirements, source code or test data, and provides upstream and downstream impact analysis
- increases requirements visibility
- drives traceability through development lifecycle
- eases management of functional, unit and regression tests
- facilitates management of static analysis including coding standards compliance and complexity management
- generates traceability matrix linking requirements and test cases.
- automates generation of test planes and reports

Solution Details

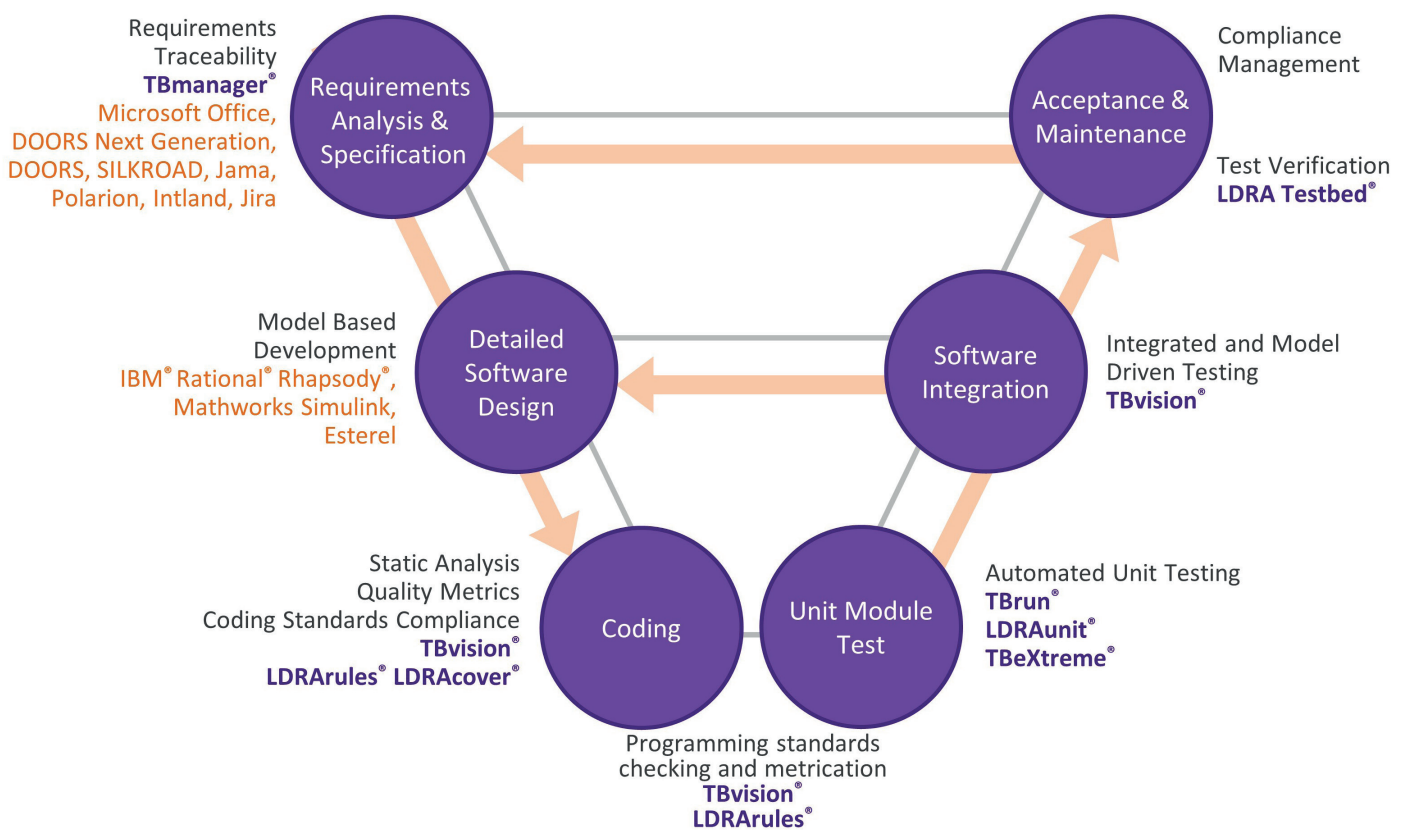
- integrates with the most popular third party requirements management and ALM tools
- leverages a TBmanager Integration Package (TIP) to provides an interface between TBmanager and the requirements documentation solution of choice
- works seamlessly with TBvision® to support the analysis of coding standards compliance, quality metrics, and structural coverage, on host or target
- integrates seamlessly with TBrun® to support unit test on host or target including automated test harness generation, test case generation, and test regression

Supporting compliance with functional safety and security certification standards

As part of the LDRA tool suite®, TBmanager provides a flexible and user-friendly mechanism to automate bidirectional traceability between standards objectives, requirements, design documents, source code, tests and associated artefacts within the project verification workflow. An automatically generated Requirements Traceability Matrix (RTM) relates each high-level requirement to the completed software product and its development and verification artefacts and communicates the project status to the requirements management tool of choice.

End-to-end traceability is illustrated graphically, allowing analysts and project managers to see a complete picture of traceability. Allocated requirements and the output from verification activities are visible to appropriate team members, test results are recorded, and the impact of any changes is flagged.

TBmanager leverages an appropriate TBmanager Integration Package (TIP) to support a wide variety of document and RTM solutions including offerings from Atlassian, IBM, Intland, Jama, Microsoft, Siemens, and SILKROAD.



Underpinned by the other LDRA tool suite components, TBmanager supports compliance with the most demanding functional safety and cybersecurity standards in the aerospace and defence sector (DO-178B/C, DO-254, DO-278, Def Stan 00-56), automotive sector (ISO 26262, SAE J3061, Automotive SPICE), industrial and energy sectors (IEC 61508, IEC 62443-4-1, IEC 60880, ISO 13849), and the medical device sector (IEC 62304 and FDA).

The LDRA tool suite has been certified by TÜV SÜD and SGS-TÜV Saar for safety related software. A complete set of tool qualification support packages is available.



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