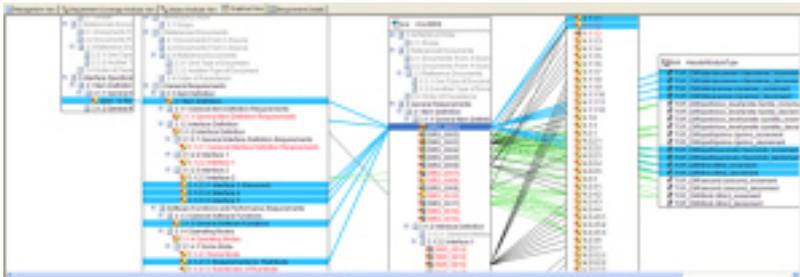


LDRA Boosts Automation and Transparency of Test Process

ECN Europe

Embedded World 2011 LDRA, the leading provider of automated software verification tools, has extended TBmanager, a test management and traceability component within the [LDRA tool suite](#) [1]. With the adoption of process-oriented standards such as IEC 62304, IEC 61508:2010 and ISO/DIS 26262, software developers must comply with programming standards and provide requirements traceability.

To ease compliance and requirements traceability, TBmanager has been extended to deliver greater transparency, implement consistent test plans throughout a team, and manage the flux between requirements, code and tests. Traditionally, developers have been forced to drive test scenarios as a standalone process outside the reach of their overall development tool chain. Any findings would then have to be manually connected back into development processes. TBmanager's solution creates access to otherwise isolated test teams with an integrated test management platform. Central to TBmanager's management capabilities is its mapping between requirements, code and test. Once mapping is established, code changes can be seen within TBmanager and suspect links, such as unmapped or removed source, can be corrected and code retested. This increased transparency and linkage dramatically pinpoints suspect code, enabling it to be quickly corrected and retested.



[2]Picture: LDRA

TBmanager's improved automation along with its increased integration into the LDRA tool suite significantly reduces the amount of time required to do code and quality review, rerun unit tests and execute system-level testing for code coverage. New standard-specific templates efficiently outline standard requirements, creating check lists and generating tasks needed for standard fulfilment. If projects lack requirements, TBmanager quick-starts the transition to requirements-driven development, creating low-level requirements identifiers that can be linked to high-level requirements. Such a solution significantly boosts automation and ease of use, while ensuring top-down coverage of the software lifecycle.

Thanks to filters and graphical improvements, developers can intuitively drive the

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execution and collection of results, easily navigating the vast amount of requirement-related information. In addition, TBmanager confirms adherence to coding standards and quality metrics, unit testing, project objective checklists all essential for exposing gaps in requirement traceability, code coverage or standards compliance. Such integration ties together all phases of the testing process, providing a robust audit trail for internal quality control or certification. TBmanager's test management and traceability capabilities are built on the LDRA tool suite, a software testing platform that is rigorous and qualifiable. Companies who initially embrace testing to improve processes can easily transition into compliance development as new standards are introduced, speeding the introduction and transition of standard-compliant products.

[SOURCE](#) [3]

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Links:

[1] <http://www.ldra.com/products.asp>

[2] <http://ecneurope.files.wordpress.com/2011/03/kl-ldra.jpg>

[3] <http://ecneurope.wordpress.com/2011/03/11/ldra-boosts-automation-and-transparency-of-test-process/>