

LDRA Productivity Package for Quality & Security

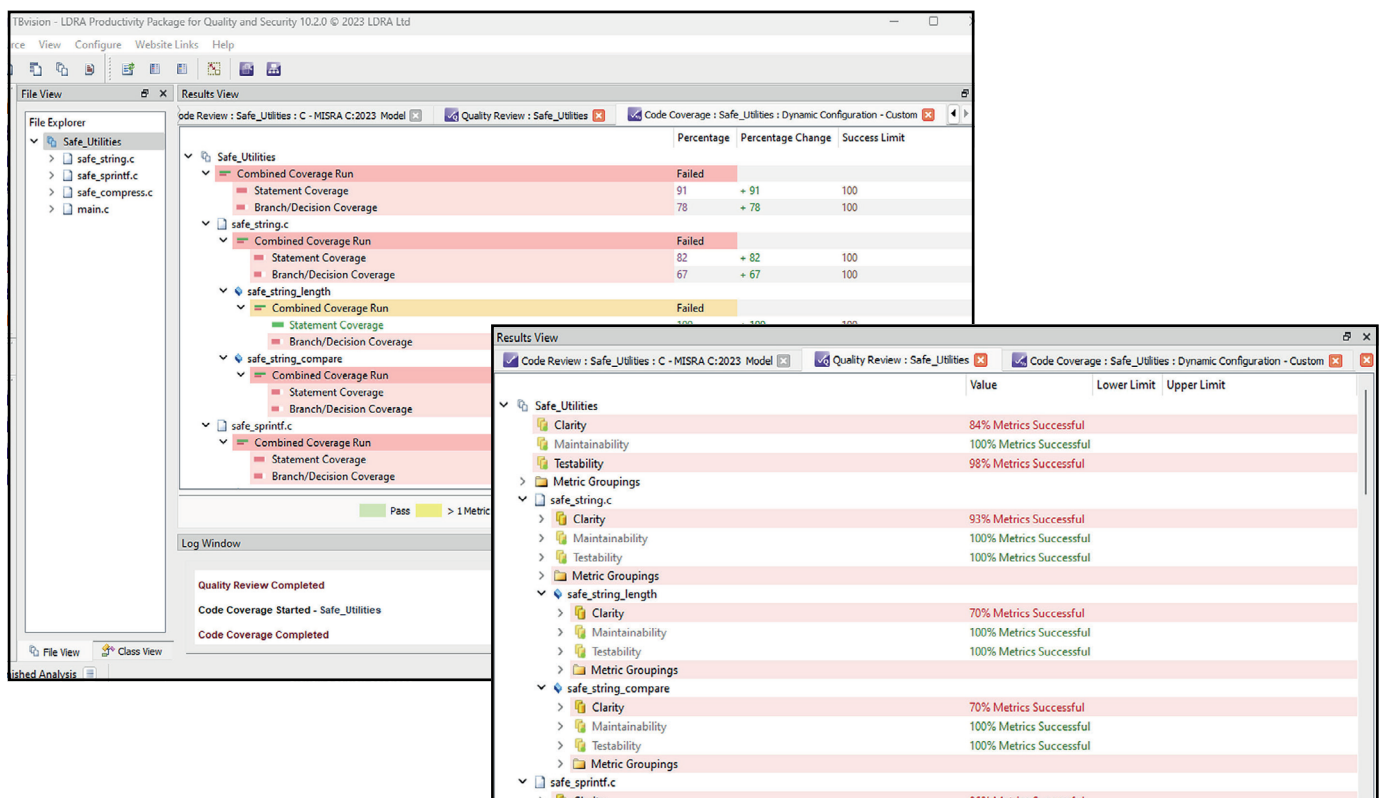
LDRA Productivity Package for Quality & Security

The LDRA Productivity Package for Quality & Security is a set of targeted capabilities drawn from the LDRA tool suite. It supports the development of software that is required to be of high quality, highly secure, or both. It also enables customers to meet the rigorous standards required to comply with IEC 15408, also known as the Common Criteria for Information Technology Security Evaluation (CC).



The package includes LDRA's best in class capabilities for the development and verification of high quality and security-critical software. The package's flexibility and scalability addresses the changing needs of the most demanding projects and enhances collaboration across large and small teams, making it ideal for use at any point in the software development lifecycle. The breadth of capabilities included in the package make it applicable to software development across the sectors and to varying levels of assurance.

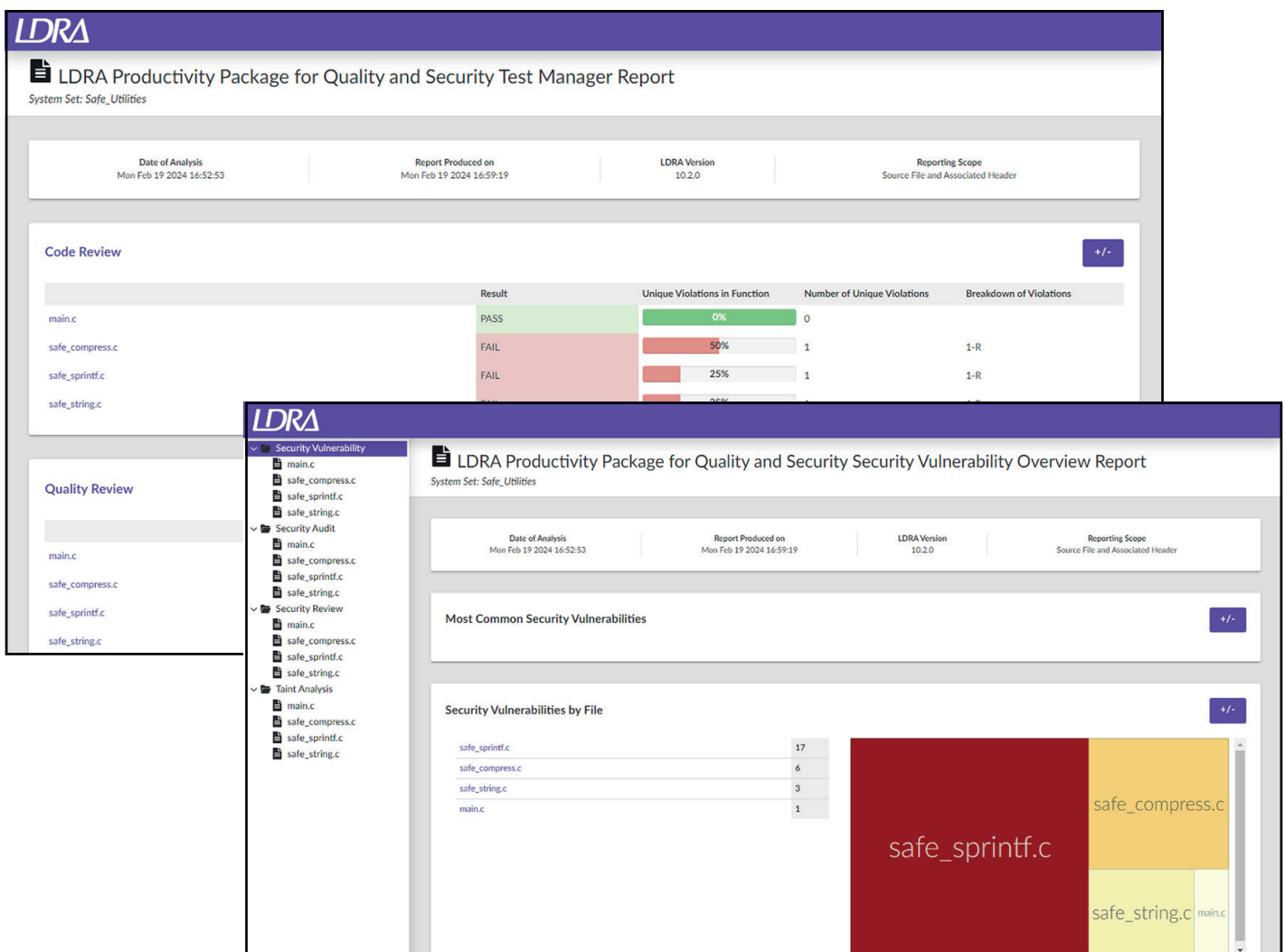
The LDRA Productivity Package for Quality & Security embraces both static and dynamic analysis techniques to encompass a wide range of essential features designed to ensure high reliability, compliance with security standards, or both.



Static code analysis (SAST) is used to evaluate code quality and gather critical metrics. It enables checking against the rules defined by coding standards such as MISRA, CERT, and CWE, in addition to user configurable rules sets.

Dynamic analysis (DAST) capabilities include unit, integration and system level testing on simulators and target hardware alike. Structural coverage analysis including Statement, Branch, and LCSAJ enables the assessment of coverage statistics and the implementation of requirements-based and on-target testing, while the analysis of data coupling and control coupling helps to ensure that source code is implemented in accordance with its developer's intentions.

Reporting of both static and dynamic (SAST and DAST) analyses is tuned to industry requirements and formatted to reflect the objectives of IEC 15408. Optional add-on capabilities including requirements traceability, web-based project reporting of testing and analysis results, tool qualification packages, and object to source code traceability and coverage. These capabilities complement the base productivity package to provide a comprehensive toolkit for ensuring the highest level of assurance in the development of high quality & security-critical software, and for meeting the rigorous Common Criteria standards of IEC 15408.



The LDRA Productivity Package for Quality & Security at a glance:

- Supports the development of software of high quality, security-critical, or both
- Cybersecurity standards compliance with IEC 15408
- Static code analysis (SAST) including key quality, complexity and testability metrics
- Coding standards compliance including MISRA, CERT, and CWE for both C and C++, along with many other commercially available coding standards
- The ability to define custom coding standards
- Dynamic code analysis (DAST) including
 - * Dynamic structural coverage analysis
 - * Unit and system level testing on target hardware
 - * Requirements-based and on-target testing
- Security analysis and reporting, including taint analysis
- Can be extended through add-in capabilities including requirements traceability, web-based project-level reporting, tool qualification packages, and object to source code traceability and coverage
- Breadth of capabilities meets the needs of most high quality and/or security-critical software development and verification projects
- Flexibility and scalability to support projects at any point in the lifecycle

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