

# Reporting & Analytics for Embedded Software Testing

## Driving Compliance and Productivity



DTP

### Achieve Your Compliance Goals

Aggregated data from all your testing practices gives you a comprehensive view of the results of your testing.

- » Consolidate reporting across CI/CD workflows to simplify compliance and enforce policies.
- » Reduce development and testing costs by acting on insights to key metrics.
- » Quickly analyze test results via interactive widgets and explorers.
- » Monitor software health, progress, and ensuring compliance to industry standards.

### Measure Your Compliance Results

[Request a demo](#) to see how DTP drives compliance and productivity for your development team.

View key metrics and results across all your testing practices within a comprehensive dashboard.

### Deliver Safe, Secure, & High-Quality Software

Do you know the risk of your project and how it impacts your business?

Parasoft DTP monitors and measures the compliance quality practices, such as static analysis, unit testing, coverage analysis, runtime error detection, and much more.

Parasoft DTP collects, correlates, and analyzes data generated throughout the SDLC to produce intelligent, actionable findings so you can focus on the impact of changed code and demonstrate full compliance traceability.

With DTP's in-depth reports and dashboards, you gain confidence in your software's compliance demands, eliminating business risk associated with unsafe, insecure software, while accelerating delivery, and facilitating continuous process improvement.

DTP provides trend charts that help in understanding the progress with compliance activities and making educated decisions about developers' assignments.

### Aggregate, Analyze, & Visualize

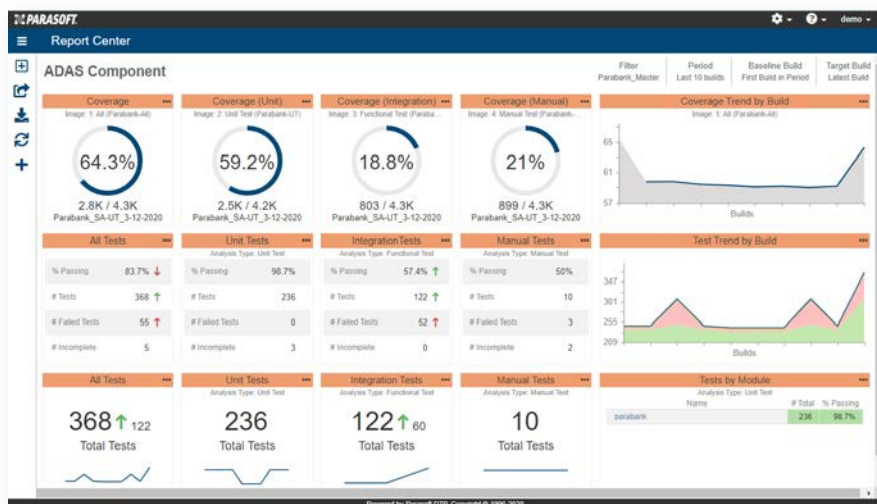
Mitigate business risks without reducing the productivity of the team with DTP's centralized quality hub. It aggregates data across your Parasoft testing practices, including static analysis, unit testing, functional testing, manual testing, code coverage, and code quality metrics from Parasoft technologies and OSS/third-party tools, supporting over 15 development languages.

### TÜV SÜD Certified

Parasoft DTP is certified by TÜV SÜD for safety-related software development according to ISO 26262, IEC 62304,

and IEC 61508. The certification simplifies the tool qualification process and eliminates additional testing and verification effort

required to qualify uncertified tools. DTP users can take full advantage of the interactive compliance reporting and the pdf exported reports for their certification process.



## Comprehensive Compliance Reporting

Centralized aggregation of test results makes compliance with security, coding, and functional safety standards easier by automatically generating the documents needed to demonstrate compliance.

- » MISRA C 2025, MISRA C++ 2023, AUTOSAR C++14, CERT, CWE Top 25, OWASP Top 10, DISA ASD STIG
- » Unit testing, structural code coverage, static analysis, requirements traceability
- » ISO 26262, DO-178C, IEC 62304, IEC 61508, EN 50716

The image displays two screenshots from the Parasoft DTP interface. The top screenshot shows the 'MISRA Compliance Report' for 'Target Build: misra-cpp-2023-2'. It includes a table with columns for 'Guideline', 'Category', 'Compliance', and 'Count'. The bottom screenshot shows the 'MISRA Deviation Report' for the same build, listing specific deviations with their descriptions and impact.

Example summary report of the state of compliance for each MISRA guideline, as well as any associated deviations or re-categorizations.

The image displays two screenshots from the Parasoft DTP interface. The top screenshot shows the 'Report Center' for 'MISRA C++ 2023', featuring a 'MISRA Compliance' section with a '97.6%' compliance rate and a 'MISRA Compliance - Mandatory Guidelines' section with '0 Violations'. The bottom screenshot shows the 'Polarion Requirement Traceability' report, displaying a table with columns for 'Key', 'Summary', 'Success %', and 'Total'.

Traceability to tests and code ensures verification and validation of each requirement.

## Reports & Dashboards Are Just the Start

Parasoft DTP's analytics are exceptionally advanced because of how its data is aggregated and correlated. The Explorers within DTP give visibility into that data and enable powerful workflows with the development team, integrating directly in the IDE and CI/CD tools.



### Aggregated Reports & Dashboards

DTP's flexible drag-and-drop dashboard provides over 50 out-of-the-box widgets, categorized and color-coded so you can quickly assemble your own view into your quality process.



### Data Explorers for Deeper Insights

Explorers provide an interactive UI for exploring your test data and understanding how changes in your codebase are changing code quality. From Explorers, you can trigger external workflows.

## Intelligent Analytics Provide Valuable Insights

Advanced analytics from Parasoft DTP's extensions enable you to drive process improvements, gain greater insights, and streamline the team's testing activities. Select from preconfigured extensions or create your own to view relevant quality metrics. Sample extensions include:



### Test Impact Analysis

Why re-test everything every sprint? Optimize your testing strategy and focus on executing only the tests associated with the changes.



### Risky Code Changes

What is the risk of the code that you just changed? What is the amount of existing quality debt?



### Test Stability

Did that test failure mean anything or is it always doing that? Where are the real regressions?



### Machine Learning

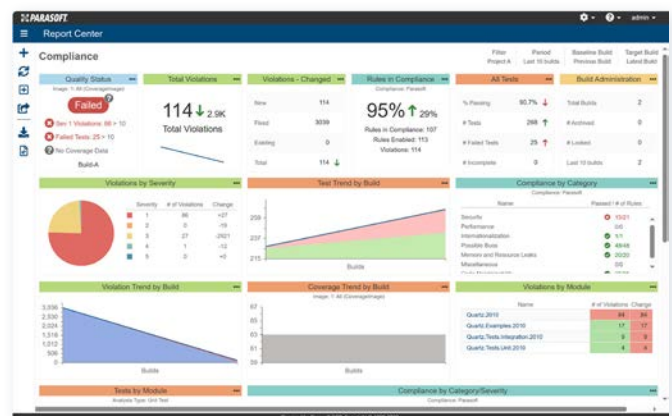
Get prioritized C/C++ static analysis violations to focus on the most critical issues and streamline triage.

## Integration With Third-Party External Systems

Leverage out-of-the-box integrations with ALM/requirement management tools like IBM DOORS Next, Polarion ALM, Codebeamer, Jama Connect, and Jira.

The integrations complete the verification and validation of requirements by providing an automated bidirectional traceability to the executable test case, which includes the pass or fail result and traces down to the source code that implements the requirement.

Download extensions from the [Parasoft Marketplace](https://www.parasoft.com/marketplace) to integrate with popular open source tools and systems.



Track compliance trends and results of tests throughout the software development life cycle and determine how to address coverage gaps.

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