



What's New in QA-MISRA 25.10?

QA-MISRA 25.10, released in October 2025 aligns with the latest MISRA C:2025 standard for optimal code practices, and focuses on practical enhancements with new project history and new features for delta analysis.

This document provides a concise overview of the significant changes in QA-MISRA 25.10.



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Introduction

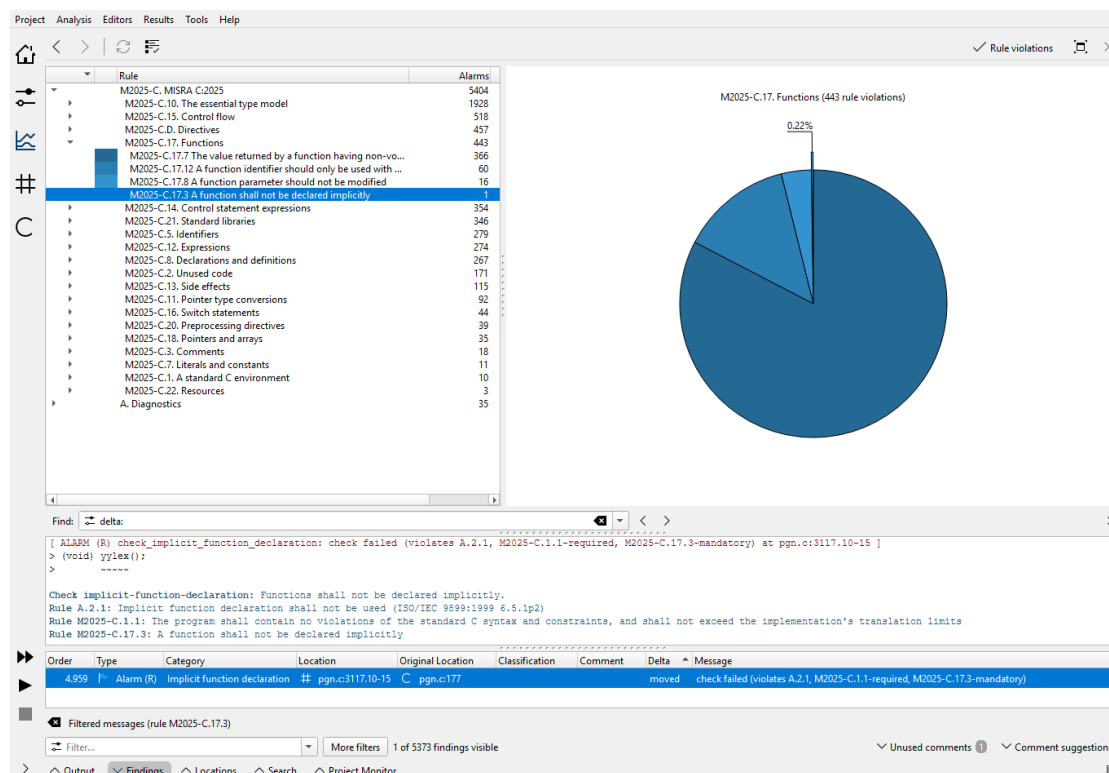
QA-MISRA 25.10 is available from October 2025. This update ensures that your codebase aligns seamlessly with the latest industry regulations (including rule checks for MISRA C:2025) and fostering a development environment characterized by enhanced precision and reliability. Alongside this core improvement, other noteworthy features include a new project history, new features for delta analysis, a new print option for printing all API settings, addition of ABI for 32-bit SPARC, AAL annotations improvements, and an extended Qualification Support Kit for an overall enriched user experience.

QA-MISRA 25.10 also contains many other productivity and flexibility enhancements as well as fixes. The full set of changes are documented in the Release Notes which track all changes in QA-MISRA since version 22.04. The most important changes in this release are highlighted in the sections below.

MISRA C:2025 Compliance Checks

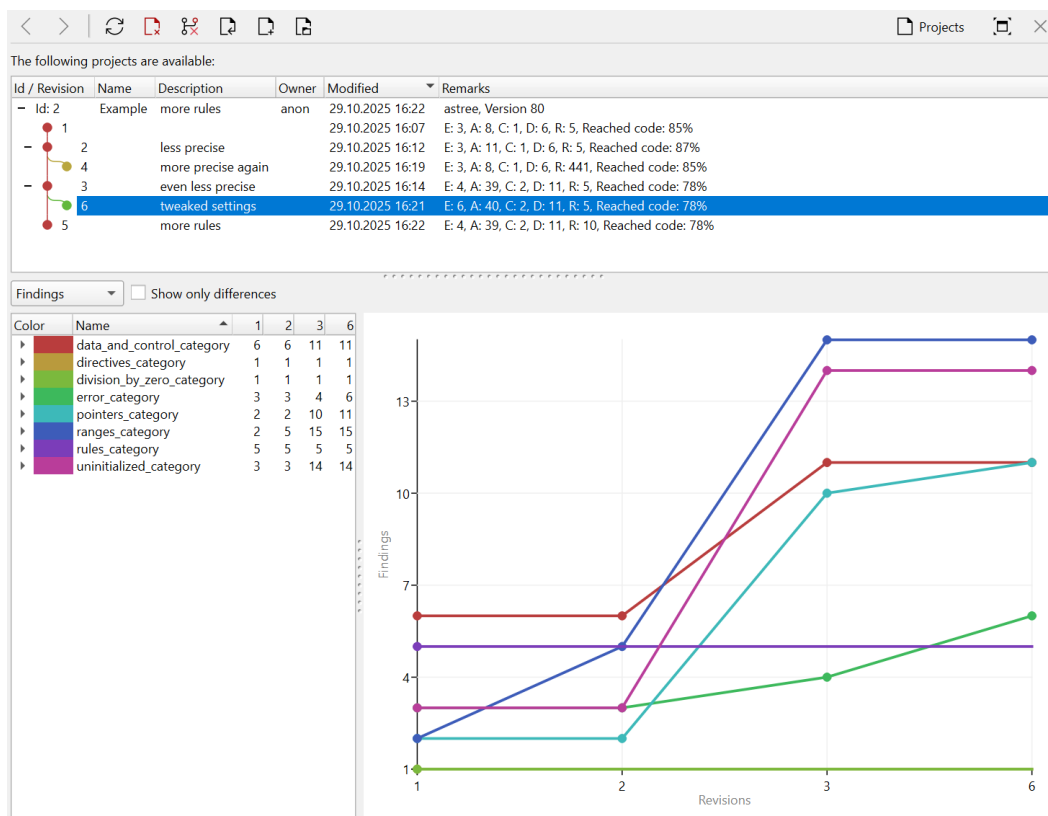
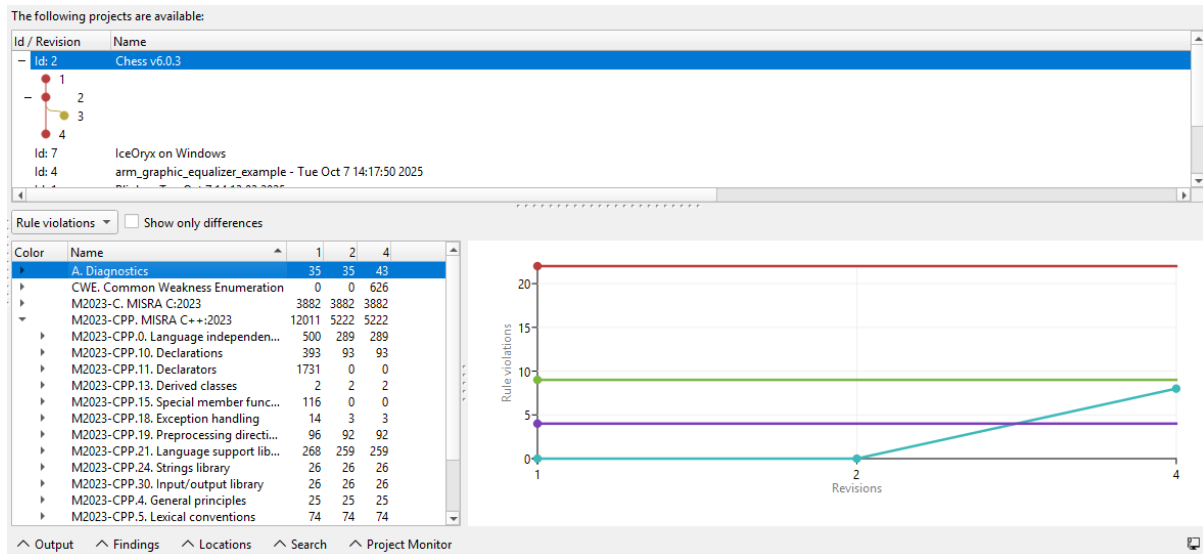
In the latest update of QA-MISRA 25.10, users can expect a significant enhancement with the incorporation of support for MISRA C:2025. This pivotal improvement introduces rule checks specifically tailored to adhere to the guidelines set by MISRA C:2025.

With this addition, users can now benefit from an elevated level of code quality and compliance, ensuring that their software aligns seamlessly with the latest industry standards. The inclusion of MISRA C:2025 support underscores QA-MISRA commitment to staying at the forefront of best practices in software development, providing developers with a powerful tool to enhance the reliability and robustness of their codebase.



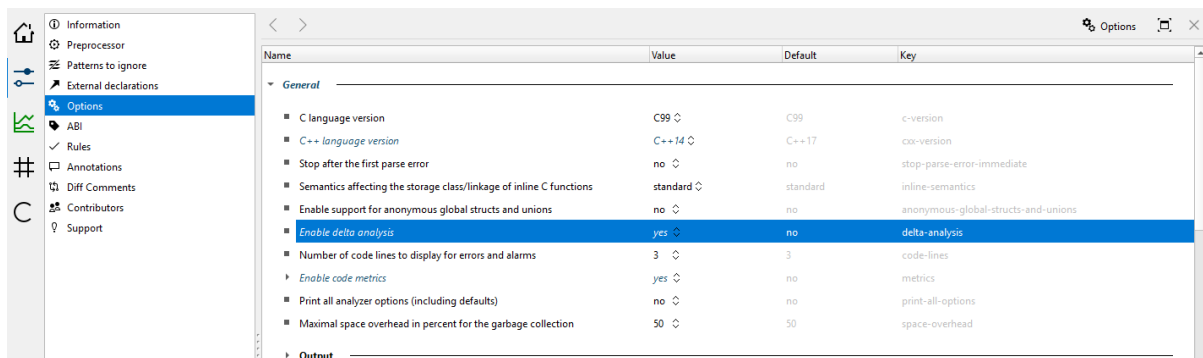
New project history

The Projects view now shows detailed revision graphs for analysis projects with multiple revisions. Differences in results and performance between revisions are displayed in tables and charts. The new features replace the former History dialog.

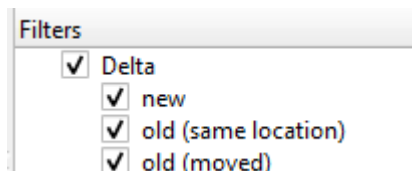


New Features for delta analysis

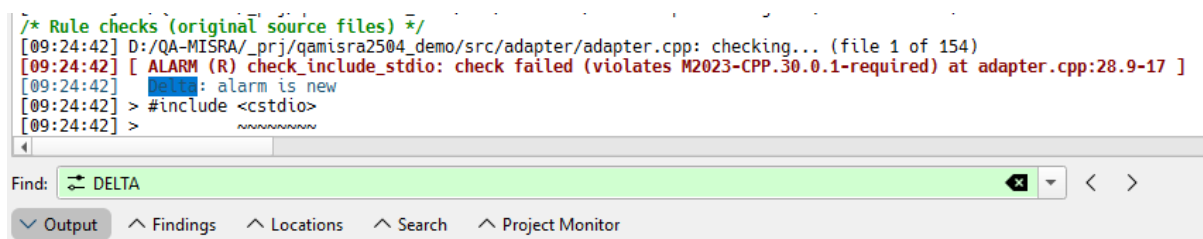
Significant enhancements have been implemented to streamline and elevate the computing of delta information. When the new option “delta-analysis” is set to “yes,” delta-analysis features are enabled. On the next analysis run, delta information is computed with respect to the predecessor revision—or, if only one revision exists, with respect to the previous analysis run.



Additionally, in the GUI, delta information can be added to the Findings view. The information can be displayed and used by enabling the new 'Delta' column by right-clicking on the table header and checking the 'Delta' entry, filtering findings based on their delta status (new/old/moved) using the "More filters" button.



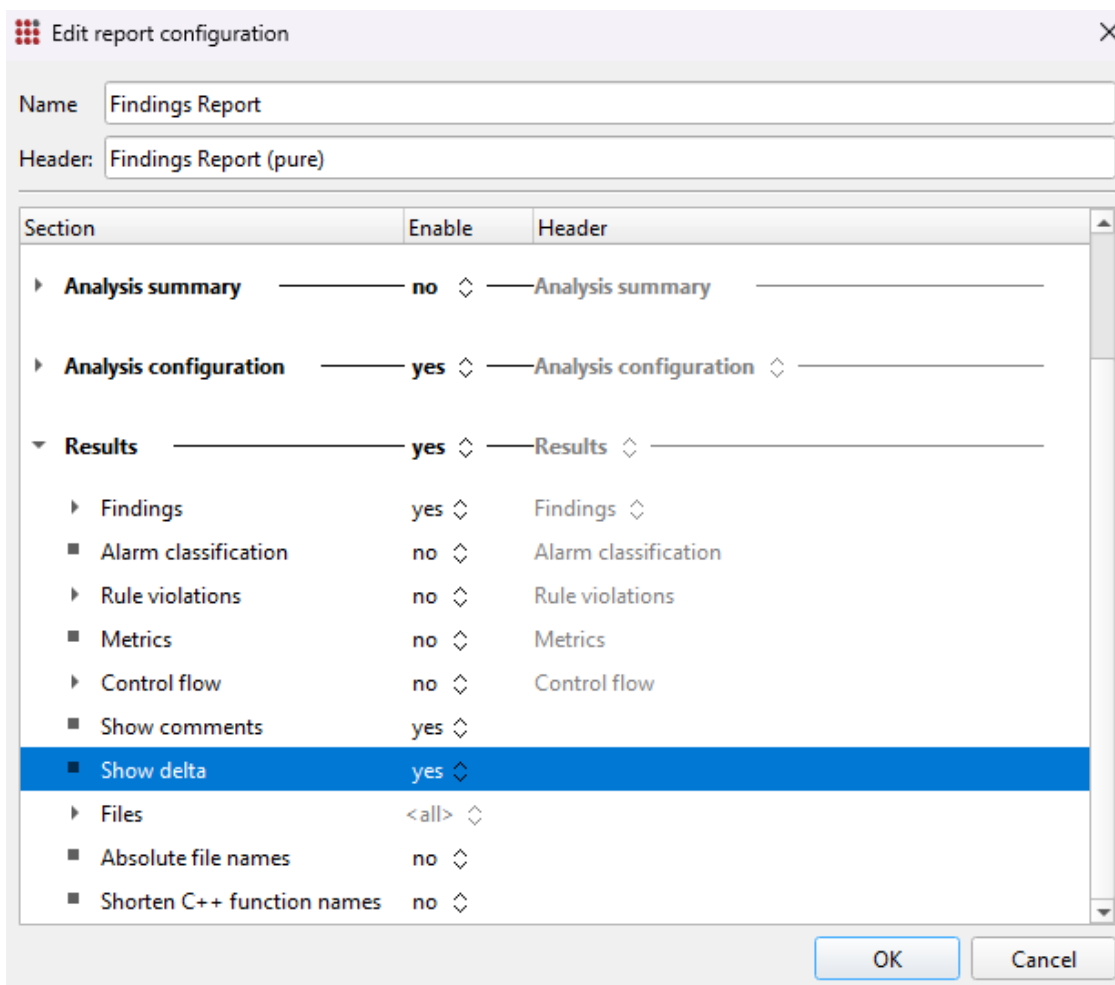
Order	Type	Category	Location	Original Location	Classification	Comment	Delta	Message
1	Alarm (R)	Include stdio	C adapter.cpp:28.9-17	C adapter.cpp:28.9-17			new	check failed (violates M2023-CPP.30.0.1-required)
2	Alarm (R)	Unused internal variable	C adapter.cpp:61.18-26	C adapter.cpp:61.18-26			new	check failed (violates M2023-CPP.0.2.1-advisory)
3	Alarm (R)	Integral type name	C adapter.cpp:64.13-16	C adapter.cpp:64.13-16			new	check failed (violates M2023-CPP.6.9.2-advisory)



Furthermore, the delta information has been added to analyzer log and report files. In the **analyzer log and text report file**, new alarms are indicated by the output "Delta: alarm is new".

In the **XML report file**, new findings are indicated as `<finding delta_status="new"/>`. Old findings are indicated as `<finding delta_status="old">`. If the location of an old finding changed, then the previous location is available in an additional 'old_location' attribute.

In the **custom reports**, delta information can be enabled by specifying `<results delta-status="yes">`. The corresponding column in the report is present only if the analysis has run with option `delta-analysis=yes`. The option is enabled for the predefined custom reports.



Section	Enable	Header
▶ Analysis summary	no	Analysis summary
▶ Analysis configuration	yes	Analysis configuration
▼ Results	yes	Results
▶ Findings	yes	Findings
■ Alarm classification	no	Alarm classification
▶ Rule violations	no	Rule violations
■ Metrics	no	Metrics
▶ Control flow	no	Control flow
■ Show comments	yes	
■ Show delta	yes	
▶ Files	<all>	
■ Absolute file names	no	
■ Shorten C++ function names	no	



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