

## Renesas Ready Ecosystem Partner Solution Qt Group Axivion Suite



### Solution Summary

Axivion Suite consists of advanced architecture verification and static code analysis tools, which reduce technical debt and help keep code maintainable. The automated, comprehensive code reviews include a delta analysis. Issues can be identified at an early stage and fixed with fewer resources. Reducing the time and resources needed to maintain or refactor the code improves the go-to-market time of feature releases. The lifetime of the software is significantly prolonged, thus increasing the overall ROI. An optional [Tool Qualification Kit](#) is ideal for any safety-critical software written in C, C++, or C#. Axivion Suite works with [RA](#), [RX](#), [RL78 Families of MCUs](#) and [RZ family of MPUs](#).

### Features and Benefits

- **Reduce Technical Debt:** Automated code reviews and early issue detection
- **Enhance Safety Compliance:** Certified to ensure code is compliant with industry-leading safety & security standards (ISO 26262, IEC 62304, IEC 61508, EN 50128 and EN 50657)
- **Boost Productivity:** It integrates seamlessly into your existing CI/CD and DevOps and easily connects to your preferred IDE (e.g. Visual Studio, VS Code, Eclipse, Eclipse-based such as e<sup>2</sup> studio, IAR Embedded Workbench) or building tool (e.g. Yocto, cmake, bazel)
- **Shorten Time-to-Market:** Fewer resources needed on code maintenance by offering fully customizable software solution, which detects issues before they cause problems

### Diagrams/Graphics



### Target Markets and Applications

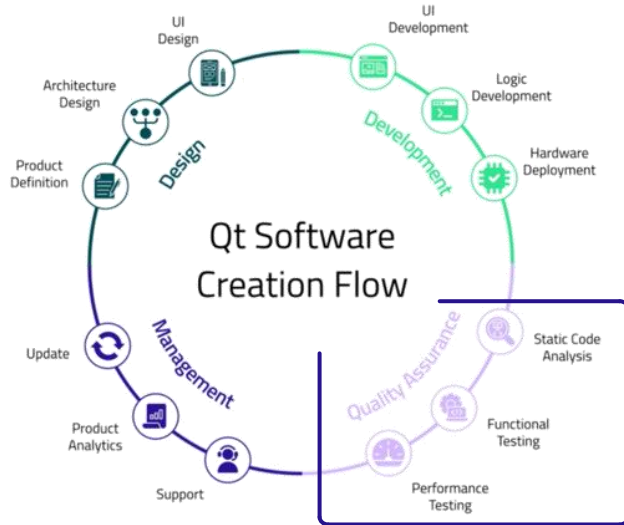
- Safety-relevant software written in C, C++, C#
  - Automotive
  - Industrial automation
  - Consumer electronics
  - Medical
  - Industrial vehicles
  - Telecommunications

## The Future of Digital Experiences

Helping companies improve productivity throughout the entire product development process.

Qt Group (Nasdaq Helsinki: QTCOM) is a global software company trusted by industry leaders and over 1.5 million developers worldwide to create applications and smart devices that users love.

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### Design and Development Tools

Qt offers various UI design and development tools, e.g., 2D/3D UI composition with a WYSIWYG editor and immediate prototyping on RZ and RA. The tools allow using code across all target devices for both MCU and MPU with a single framework and are available for desktop, mobile, and embedded devices.

### Quality Assurance Tools

In addition to the framework tools, the Qt Group also provides various sophisticated software quality solutions. These quality assurance tools do not require Qt Design or Qt development tools to be installed and help future-proof the software. Each tool can be used individually to save time and costs and ultimately enable growth.

#### Axivion

Sophisticated static code analysis and architecture verification for high-quality code in safety-critical environments.

[www.qt.io/axivion](http://www.qt.io/axivion)

#### Squish

Automated cross-platform functional GUI testing tool for virtually any desktop, mobile, web or embedded platform.

[www.qt.io/squish](http://www.qt.io/squish)

#### Coco

Dynamic code coverage to optimise the efficiency of testing protocols and to reach new levels of product quality.

[www.qt.io/coco](http://www.qt.io/coco)

#### Test Center

Light-weight, centralized test result management platform connecting test automation with the development process.

[www.qt.io/test-center](http://www.qt.io/test-center)

Learn more about our [Software Quality Solutions](#)

### Service & Support

From pre-sales, roll-out, general technical support, and tailored training, Qt Group helps customers fully utilize the benefits of our solutions offering and maximize their efficiency. Our experts have accumulated industry-specific experience and can share best practices when needed.