

Axivion for Industrial Vehicles

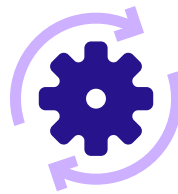
Prevent software erosion, ensure compliance, and accelerate development for safety-critical systems.



Compliance

Meet the highest industry standards and guidelines to verify compliance with:

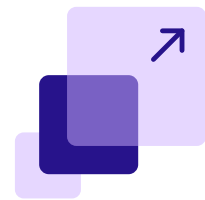
- ISO 26262, IEC 50128/50657, IEC 61508*
- MISRA C/C++
- AUTOSAR C++14
- ASPICE
- CERT
- CWE
- Custom rules



Maintainability

Ensure your code is clean and maintainable by automatically:

- Identify technical debt before it slows down your development
- Adhere to the defined software architecture while coding
- Enforce coding standards to maintain a uniform codebase even in larger projects
- Understand legacy code through advanced software architecture archaeology and recovery



Safety at Scale

Stay on top of changing requirements and grow your business:

- Always comply with the latest version of regulations for optimized certification processes
- Easily integrate safety & security checks into your daily CI/DevOps workflows
- Scale your development to match the growing needs of your customers, development teams and regulatory bodies.

"From a technical perspective, the Axivion Suite won us over with all of its functions for automated code and architecture verification. However, it was the excellent support from the Axivion Team that proved to be the key to the high level of acceptance among developers and the fast and highly productive results."

— Jungheinrich



Axivion Suite

Your All-In-One Solution for C, C++, C#, and CUDA

Robust Software. Reliable Vehicles.

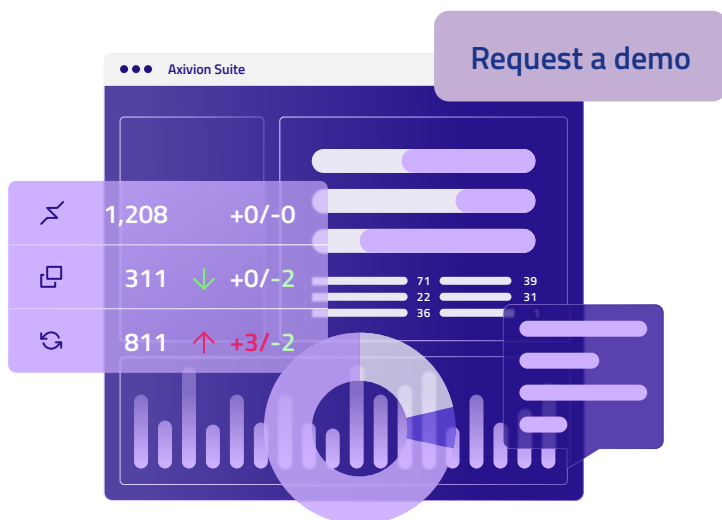
Industrial vehicles, whether construction machinery or agricultural equipment, are increasingly reliant on complex embedded software. This brings challenges such as needing to maintain legacy code over long product lifecycles, while at the same time complying with regulations and meeting customer expectations.

But how do you accelerate innovation while guaranteeing absolute compliance and quality?

Axivion provides the answer by bringing together static code analysis and architecture verification to enforce coding guidelines (e.g. MISRA, CWE, CERT) directly within your team's workflow. It enables early detection of defects, identifying coding violations and technical debt early in the development cycle. This not only significantly reduces the risk of bugs making it to the production stage, it also lets your team focus on developing the software instead of needing to constantly fix it.

Axivion's premium architecture verification ensuring that the implementation adheres to the intended architecture for

- ✓ better maintainability and faster time to market.
- ✓ functional safety and freedom from interference.
- ✓ faster onboarding of new team members.
- ✓ reliable documentation for project planning.



33% less time spent on fixing technical debt



Accelerate time-to-market without sacrificing software quality.



Ensure consistent compliance with leading safety guidelines and industry standards.



Increase your ROI by optimizing your development workflows across teams and products.