

# Axivion and AI

Supporting AI-Powered Software Development



## Built for the Way Developers Work Today

Companies across every industry are integrating AI into their development processes. As a leading code analysis tool, Axivion surfaces the data AI needs to be genuinely useful, such as rule violations, architectural insights, severity rankings, and traceability. AI then amplifies what your developers can do with that information: work faster, smarter, and without the need to consult separate tools or documentation.

### AI in your workflow. Not in the analysis.

Crucially, **Axivion does not use AI internally to perform its analysis.** Instead, it allows AI to retrieve the semantic information needed for generative AI augmentation. This distinction is what makes AI-powered code analysis with Axivion viable for safety-critical environments that must comply with ISO 26262, IEC 61508, IEC 62304, DO-330 and similar standards.

#### AI-Free Analysis Engine

Axivion's core static analysis does not use AI — keeping it qualifiable under ISO 26262, IEC 61508 and related standards.

#### Customer-Controlled AI Connectivity

Axivion provides the interface. You choose whether, when, and how to connect an AI model — including air-gapped or on-premise LLM deployments for maximum data control.

#### AI-Generated Code Must Pass Analysis

All code, regardless of origin: manual or AI-generated, is subject to the same Axivion rule set. AI-generated contributions receive no special treatment or exemptions.

#### Audit-Ready Output

Because the analysis is deterministic and AI-free, Axivion findings remain defensible in functional safety audits. No ambiguity about which tool made which decision.

### Bug-Fix Suggestions



AI can propose code changes to address findings, or guide developers through repair options. Combined with automated CI workflows, this can mean a fully assisted fix cycle from detection through to testing and commit.

### Violation Explanation



Axivion already provides concise violation summaries. With AI accessing the full documentation, developers receive richer explanations and can ask follow-up questions directly — eliminating time-consuming manual documentation searches.

### Local-Language Developer Support



Combined with AI, Axivion bridges the gap between non-English-speaking developers and English-only documentation, thus reducing miscommunication and enabling every team member to fully understand findings and regulations.

### Custom Reporting



Axivion's structured data feeds AI-generated reports tailored to your stakeholders — from executive dashboards to detailed compliance exports — removing the need to build reports manually from raw metrics.

### AI-Generated Code Compliance



Code generated by AI assistants carries the same compliance obligation as any other code. Axivion ensures AI-generated contributions are fully analysed before integration — an essential safeguard in regulated development environments.

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## Adding Axivion to Your AI-Powered Workflow

### Axivion Analyses. AI Explains. Developers Act.

Bring AI-powered code analysis into every developer's daily workflow. Repeatedly interacting with AI and validating the generated code with Axivion, will boost productivity and protect your code quality.

#### 1 Axivion Runs the Analysis

Axivion performs rigorous static analysis and architecture verification using its own deterministic, AI-free engine. It helps enforce coding guidelines, architectural rules, and custom standards. The results are fully qualified for safety-critical certification workflows.

#### 2 AI Connects via MCP

Through the Model Context Protocol (MCP) connector, your preferred AI model accesses Axivion's findings, documentation, severity tags, and code context — all within the developer's IDE or CI pipeline. No copy-pasting. No context-switching.

#### 3 Developers Get Immediate Guidance

Developers can ask follow-up questions about violations, request fix suggestions, explore architectural hypotheses, or generate prioritised remediation plans — all powered by Axivion's structured data and your team's choice of LLM.

#### 4 Implementation & Validation

Any change a developer makes based on AI input, whether a bug fix, a refactor, or an architectural adjustment, must be re-analysed by Axivion before it is integrated. AI assists the decision; Axivion validates the outcome. This closed loop ensures that no AI-influenced change bypasses your quality and compliance gates, keeping every release audit-ready.

### AI-Powered Software Compliance as a Business Advantage



#### Developer Productivity

Faster understanding of violations means more fixes per sprint, shorter review cycles, and less time blocked by documentation look-ups.



#### Development Costs

Less reliance on senior engineers for routine violation triage. Junior and mid-level developers gain the context they need to work independently.



#### Faster Time-to-Market

Benefit from AI-powered fix plans, automated coding suggestions, and in-IDE guidance to reduce the gap between finding an issue and shipping a fix.



#### Internal Developer Upskilling

AI-guided explanations of all rules and regulations build team knowledge over time, leading to reduced dependency on internal experts.



#### Reduced External Consulting

When any developer can access expert-level context via AI, the business case for expensive specialist contractors diminishes significantly.



#### Maintained Compliance Posture

AI-powered productivity gains do not come at the expense of safety. Axivion's AI-free analysis engine keeps every release certifiable with no additional costs.



#### Connect with our Experts

Our experts will show you how Axivion integrates into your AI toolchain without compromising on quality, safety, or compliance.