



AI-Assisted Code Remediation for Optimized Shift-Left Development

For over 35 years, Perforce Static Analysis tools QAC and Klocwork have been the trusted solutions for delivering the most accurate and precise results to mission-critical projects.

Now enhanced by AI, Perforce Static Analysis empowers teams to accelerate development and fix defects, vulnerabilities and compliance violations as early as possible in the SDLC.

The AI-assisted code remediation feature combines deep static analysis insights with comprehensive documentation and precise fix instructions that enable the AI tool to suggest accurate, context-aware fixes.

Key Differentiators

- Context-aware AI-Assisted remediation based on full analysis data for the finding.
- Developer-in-the-loop approval required for AI-proposed fixes.
- Automatic re-analysis of changes to guarantee resolution.
- Effortlessly integrates into existing developer workflows.
- Available to all Perforce QAC and Perforce Klocwork desktop users.

Key Features

AI-Suggested Fixes

Go beyond issue detection to immediate resolution. The AI assistant proposes fixes to code issues found by QAC and Klocwork, reducing developer effort and multiplying the positive performance impact on developer velocity. Never fail a merge or pull request quality gate again! Harnessing AI code assistants helps to automate fixes for analysis-detected failings, which reduces time to resolution and developer fatigue and frees up valuable development resources.

Accuracy of AI Fixes

The Perforce Static Analysis AI-assisted code remediation leverages the deep, inter-procedural understanding of the findings from the QAC and Klocwork engines and rich contextual defect information to provide the most accurate fix recommendations possible. According to research by the IEEE, AI-assisted code remediation tools using these techniques will improve the resolution accuracy from 20-45% to 72-90%.

Keeps Developers in Control

Whether analyzing AI-generated code or code written by a human, the Perforce Static Analysis AI-assisted code remediation feature contextually enhances the detection of security vulnerabilities, safety concerns, and compliance failures with many well-known standards.

However, all recommended code changes are made clearly visible within the IDE using a diff-based view, and ensure developers are kept in the loop for every modification — no AI-generated fix is ever applied without explicit developer approval.

Automatic re-analysis runs immediately to confirm the fix, speeding up remediation times and reducing human error in applying the fixes.

Technical Specifications

Supported IDEs:

The Perforce Static Analysis AI-assisted code remediation feature currently supports VS Code with GitHub CoPilot, which provides a range of AI LLM options and lowers development and maintenance efforts.

Try Perforce Static Analysis for Free

Ready to see how AI-assisted code remediation can help you shift-left? Request your Perforce Static Analysis free trial today.

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www.perforce.com/products/sca/free-static-code-analyzer-trial