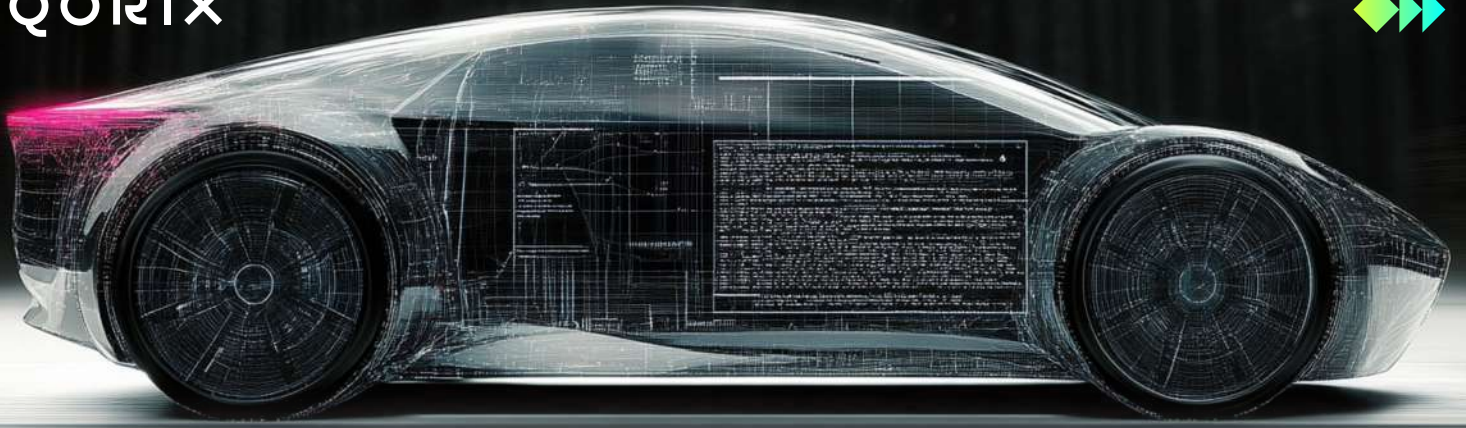




Qorix Developer

The SDV Productivity Engine – Powered by AI



- ▶ Qorix Developer - AI-assisted, deterministic configuration for SDV middleware
- ▶ Unified workflows across Qorix Classic, Qorix Adaptive, Qorix Bootloader, and Qorix Performance - built for OEM-scale integration

Turn engineering intent into validated SDV configurations - accelerated through deterministic AI assistance

Qorix Developer combines practical AI, a modern developer experience, and deterministic configuration workflows to:

- ▶ Increase engineering velocity
- ▶ Reduce rework and integration cost
- ▶ Ensure consistency across the full SDV software base

Key Benefits

Engineering Productivity Benefits

AI-assisted authoring and automation significantly reduce engineering cycle time.

Deterministic, safety-aligned workflows

Deterministic configuration and orchestration models aligned with Qorix Performance and safety-critical workflows.

Unified SDV Stack

One environment for Classic, Adaptive, Bootloader, and Performance—no fragmented tools.

Cost Reduction

Lower onboarding effort, fewer defects, reduced rework, and simplified tooling complexity.



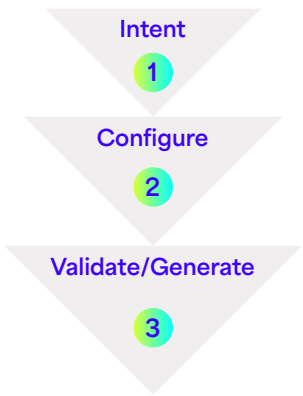
Why the Automotive Industry Needs Qorix Developer

OEM Challenges	Qorix Developer Solution
Fragmented toolchains	Unified configuration workflow across all SDV stacks
Slow, manual configuration	AI-assisted configuration authoring
Rework due to inconsistencies	Automated validation and cross-stack alignment
Difficult onboarding	VS Code-based experience with guided AI assistance
Growing SDV complexity	Deterministic orchestration models for Qorix Performance

What Qorix Developer Ensures

AI-Powered Engineering Workflow

- ▶ Natural-language intent → structured configuration drafts
- ▶ Final graphs remain user-approved (reviewable diffs and approval gates)
- ▶ Smart consistency checks to prevent integration issues
- ▶ Automated type-system generation for zero-copy data paths
- ▶ Explainable AI recommendations (“why this configuration?”)
- ▶ **AI assists engineering decisions; final outputs remain deterministic and reproducible.**

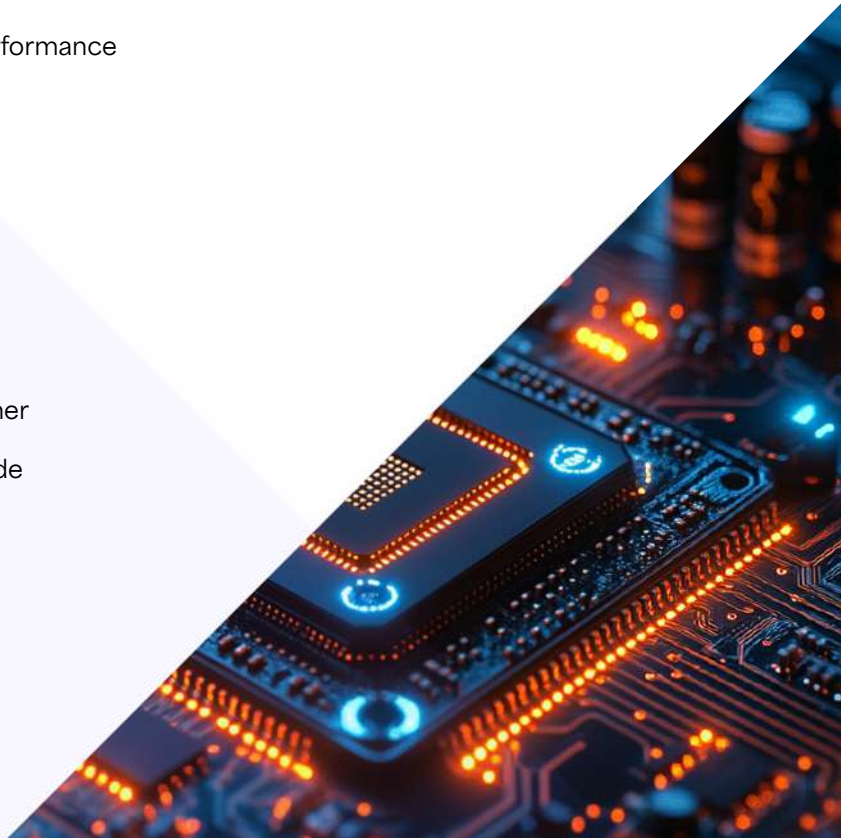


Unified Environment for the Entire SDV Stack

- ▶ Works across Classic, Adaptive, Bootloader, and Performance
- ▶ Eliminates toolchain fragmentation
- ▶ Ensures consistent configuration across domains
- ▶ Supports OEM-scale variants and large codebases

Modern Developer Experience

- ▶ Native VS Code integration and Qorix Cloud Designer
- ▶ Model-based and code-based workflows side by side
- ▶ Git-native collaboration (diff, review, traceability)
- ▶ CI/CD-ready configuration artifacts





Technical Highlights

Cross-Stack Capabilities

- ▶ Bootloader configuration
- ▶ Qorix Performance
 - Runtime orchestration (tasks, scheduling, cause-effect chains)
 - Data-layer modeling (zero-copy optimized types)
 - Transport and communication setup
- ▶ AUTOSAR Classic configuration
- ▶ AUTOSAR Adaptive configuration

AI & Automation

- ▶ Natural language → validated configuration drafts
- ▶ Assisted generation of Performance runtime graphs (tasks, scheduling, cause-effect chains)
- ▶ Cross-stack alignment (Classic ↔ Adaptive ↔ Performance)
- ▶ Automated detection of structural conflicts, including cyclic dependencies and invalid scheduling patterns.

Developer & Toolchain Integration

- ▶ VS Code extensions
- ▶ Cloud-based Designer UI
- ▶ GitHub / GitLab CI/CD integration
- ▶ Model- and code-based editors

Export & Integration

- ▶ Configuration-as-Code
- ▶ JSON, YAML, ARXML, Performance models
- ▶ Generates integration-ready artifacts with full change traceability for existing toolchains and CI pipelines.
- ▶ Integrates into existing toolchains and CI pipelines without disrupting established workflows.

- ▶▶ **Qorix Developer reduces rework, improves traceability, standardizes configuration across domains, and accelerates SDV integration.**

