ferrocene

Ferrocene Supply Chain

Maintaining the safety and security of external code

Ferrocene Supply Chain helps developers and security teams address software safety and security concerns by providing the tooling and workflows required to continuously review and integrate external code – without sacrificing developer ergonomics.

Manage your supply chain with ease

Ferrocene meets regulatory requirements
Addresses safety-critical standards (ISO 26262, IEC 61508, IEC 62304 and others) and upcoming supply chain regulations like the European Cyber Resilience Act (CRA).

Trust is good, re-validation is better
Based on Ferrocene's internal infrastructure and engineering values, we can ship Ferrocene in a way that allows you quick and easy re-validation on your side.

Document and trace your Supply Chain
Automated tooling generates Software Bill of Materials (SBOMs), tracks CVEs and monitors known vulnerabilities leveraging tooling and modern standards such as CSAF. Maintain a complete overview of external components across all projects.

Safely integrate external code
Ensure that only vetted and approved external code is used in your environment. Whether verifying license compliance, safety, or certification levels, Ferrocene's workflow is extensible and adjustable to your needs.

Adopt Rust with confidence

Ferrocene combines Rust's safety and performance advantages with the qualification evidence and engineering support needed for regulated software development.

Accelerate Certification

Support certification efforts with a qualified Rust toolchain for:

- ISO 26262 ASIL D
- IEC 61508 SIL 3 (with support for customer certification toward SIL 4)
- IEC 62304 Class C
- Certified subset of the Rust core library (ASIL B / SIL 2)

Reduce Supply Chain Risk

Build with confidence with:

- Quality-managed open source distribution
- MIT OR Apache-2.0 licensing
- Predictable quarterly releases
- Upstream Rust alignment
- Qualification documentation

Deploy Across Multiple Platforms

Supported environments:

- Linux
- QNX
- Bare metal
- Intel 64-bit
- Arm 32-bit and 64-bit

See all supported targets here

The Ferrocene advantage:

Toolchain-independent compatibility
Provides compatibility with any Rust toolchain that supports a cargo-style packaging manager, including Ferrocene, the open source rustc and other vendor distributions. Our services follow standard Rust protocols but are delivered from an infrastructure under your control.

Open source for security needs
Ferrocene Supply Chain includes full Ferrocene toolchain sources and support for safely importing, building and testing the code in your own environment. This allows you to review code and verify binary provenance with unparalleled transparency.

Protect your environment
Designed for closed-off environments, Ferrocene supports firewalled and fully airgapped, systems. Our tooling and assistance ensure Rust builds run seamlessly in your environment, providing a developer experience that rivals full internet access.

LTS and Archive
Built for long-terms support (LTS), Ferrocene allows projects to be security designed, archived and easily restored for future fixes.

Built for CI/CD
Designed for seamless CI/CD integration with automatic builds and testing, leveraging experience from running CI on one of the largest open source codebases.

Reach out to our sales team for a consultation: sales@ferrocene.dev.