



Prover Certifier

Prover Certifier produces formal verification-based safety evidence for safety-critical systems. With Prover Certifier, you can ensure the correctness and reliability of your software, meeting the highest safety standards. Thanks to formal verification that provides 100 percent certainty, you can obtain a safe product while still decreasing the time you spend on testing and review. Formal Verification is highly recommended by CENELEC.

Benefits

- Enhanced Safety.** Mitigate risks and enhance safety by rigorously verifying critical software components.
- Accelerated Certification.** Expedite the certification process with automated formal verification.
- Reproducible verification.** After software changes, ensure automatically that no requirement was violated.
- Documented verification activities.** Unlike manual verification, it is well documented what has been proved.

Key Features

- Formal Verification.** Prove that your system fulfills safety requirements.
- Sequential Equivalence.** Demonstrate the equivalence between model and code.
- Automated Certification.** Automatically produce safety evidence to include in your safety case.

Industry Standards Compliance

Prover Certifier has been certified by TÜV NORD as a CENELEC EN 50128-compliant and EN 50716-compliant T2 tool for SIL 4 applications. This means that it fulfills the toughest requirements for verification and validation tools for safety-critical systems with railway applications in the European Union.

Interfaces

Prover Certifier is a command line tool that reads HLL models from files.

Translators to HLL are available as add-ons from sHLL and all-purpose programming languages C and Ada, as well as from vendor-specific languages such as Westrace, Microlok, VPI/iVPI, VTL, SCADE.

Results are available as text file receipts and exit codes.

Supported Platforms

- Linux Ubuntu 18.04 until April 30, 2025.
- Linux Ubuntu 20.04 until April 30, 2027.
- Linux Ubuntu 22.04 until April 30, 2029.
- Linux Ubuntu 24.04 until April 30, 2031.

- Red Hat Enterprise Linux 8 until May 31, 2029.
- Red Hat Enterprise Linux 9 until May 31, 2032.

Support for additional platforms can be purchased.

Expert Services

Additional expert services can be provided, including training, analysis as a service, and best practices advice.

Get Started with Prover Certifier

Scan the QR code or visit www.prover.com/products/prover-certifier/ to learn more, watch a demo, or get in touch with our experts.

