

SVx



Agentic Solution for End-to-End Formal Security Verification



Features & Benefits

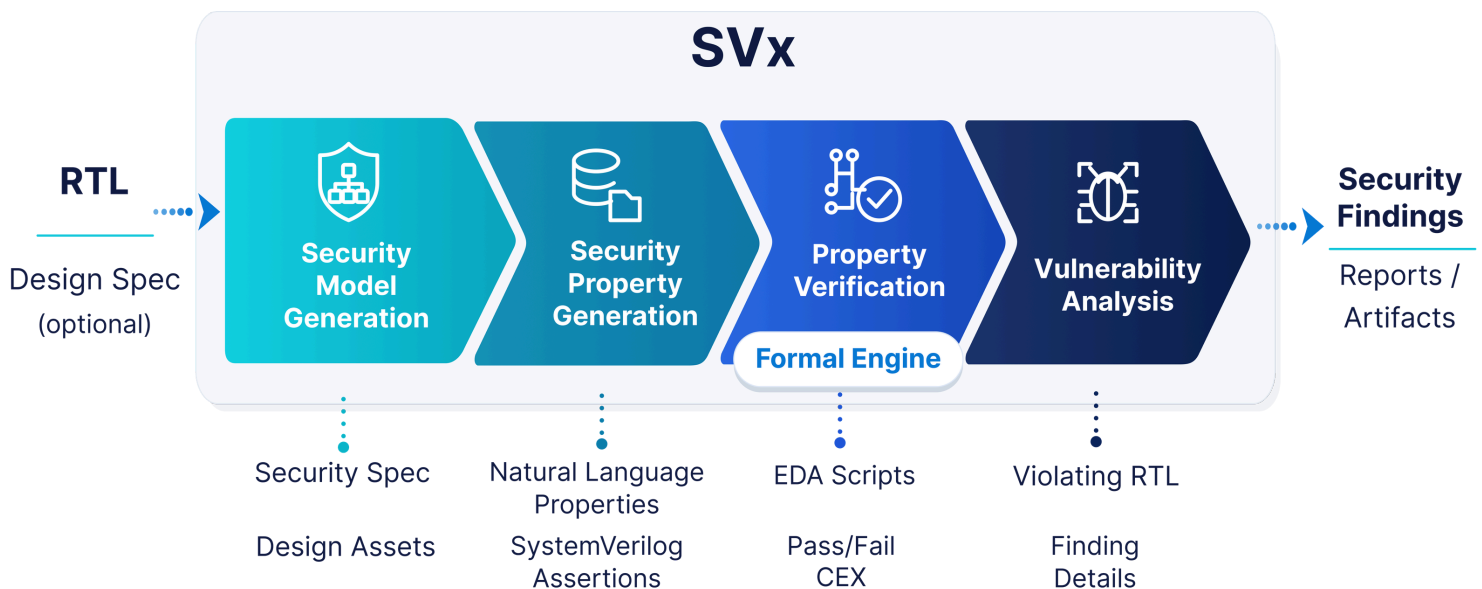
- Automated Security Assertion Generation
- Evidence-Linked, CWE-Mapped Security Findings
- Plug-and-Play Formal EDA Integration
- Fully Autonomous or Human-In-The-Loop Workflow

Find security risks with security properties covering **100+ hardware CWEs**

Prove security requirements by formally **verifying security intent** against the design

Act on findings early with **50x speed-up** in formal security verification closure

From Design to Actionable Security Findings



Why SVx?



Translating security intent into effective, verifiable properties is difficult, time-consuming, and dependent on specialized expertise.

SVx applies curated hardware security knowledge to each design, automating the flow from RTL analysis to verification-ready assertions and formal proofs, helping the user understand security issues and how to fix them.

This helps teams expand security coverage and efficiency to harden designs and produce traceable security evidence.



How SVx Works

01 Security Model

SVx analyzes RTL to identify security-relevant assets, behaviors, and requirements, reducing the manual effort needed to begin security verification.

02 Security Properties

Each property includes understandable security intent and connections to relevant threats and CWEs, creating evidence that can be reviewed, extended, and maintained.

03 Property Verification

SVx connects with industry-standard formal verification engines from Siemens, Synopsys, and Cadence, allowing teams to run security assertions without replacing their current formal flows.

04 Vulnerability Discovery

Seamless integration with formal workflows enables vulnerability identification for issues existing functional verification techniques commonly miss.

Caspia.AITM Agents

Caspia's agents runs securely in your environment – whether on-premises or in the cloud. Our agentic framework is hardened to ensure customer-provided LLMs can be integrated safely.

Visit online at caspia.ai and start your journey to more robust and secure designs.



caspia.ai/agents

Learn more at caspia.ai