

Studio Testing Suite Product Overview

Cloud-Scale Testing for Mission-Critical Software

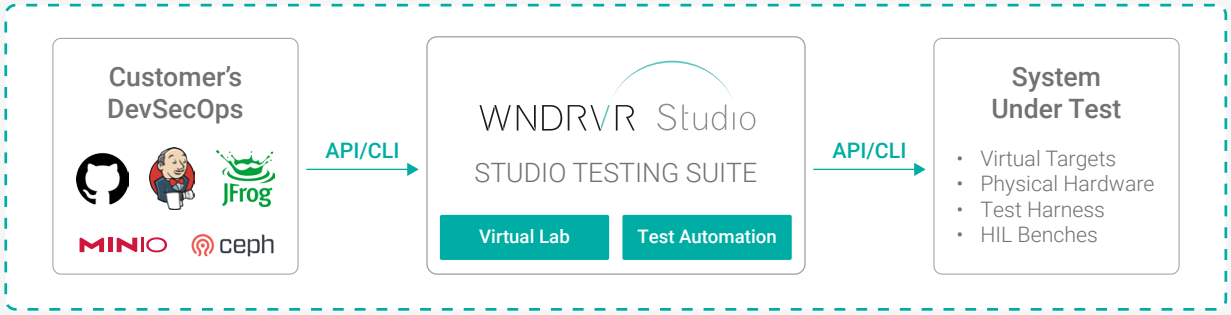
Wind River® Studio Testing Suite is a cloud native testing solution that unifies virtual labs and automated testing, enabling faster validation and greater confidence in delivering high quality, safe, and compliant embedded software for mission critical industries.

Powered by Wind River® Studio Virtual Lab and Wind River® Studio Test Automation, Studio Testing Suite addresses hardware access constraints, fragmented toolchains, and multi supplier complexity in embedded software testing. The suite enables secure remote access to physical targets, supports bring your own simulation and co simulation models, and provides cloud scale test orchestration and automation with a unified view of software quality metrics to accelerate validation and improve release confidence.

Designed to integrate directly with existing continuous integration and continuous deployment (CI/CD) pipelines, Studio Testing Suite enables embedded software teams to test earlier and more often without disrupting established workflows.

For more information, visit https://www.windriver.com/products/studio-tools/studio-testing-suite.

API, CLI for integrating with customer's DevSecOps and test infrastructure



Reduced Infrastructure Footprint

Eliminate duplicate services by leveraging existing DevSecOps investments. No need to replace what already works.

Minimized Operational Overhead

Teams continue using familiar tools and processes while gaining advanced testing capabilities.

Simplified Support Complexity

Maintain single pane of glass for existing tools while accessing an enterprise-grade testing solution.

BENEFITS

Achieve Faster Time to Value with Early Quality-Assurance Validation

- Predictable access to shared physical hardware combined with scalable simulation allows teams to begin validation earlier and avoid hardware related delays. Software can be tested before hardware is available and transition smoothly to real targets, reducing integration bottlenecks and shortening development timelines.

Run Cloud Scale Test Automation and Orchestration

- Centralized automation, orchestration, and AI-assisted execution enable tests to run frequently and consistently across physical and virtual environments. Teams receive timely, reliable feedback that keeps validation aligned with CI/CD workflows and supports rapid iteration at scale.

Release Safety Critical Software with Confidence

- Repeatable workflows, traceability, AI-powered insights, and centralized quality intelligence support informed release decisions. Teams can demonstrate that functional safety and compliance requirements are met before deploying software into mission critical distributed teams.

Collaborate Securely Across the Multi-Supplier Ecosystem

- Centralized access management enables organizations to work efficiently with external suppliers while protecting intellectual property. Standardized governance reduces integration risk and ensures consistent testing practices across distributed teams and partners.

Reduce Infrastructure and Operational Costs

- Shared hardware access, scalable simulation, and reusable test automation reduce the need for duplicated lab environments and custom tooling. Teams can maximize their use of existing resources while minimizing manual test execution and maintenance overhead, lowering the overall cost of validation.

Accelerate Validation Through AI-Powered Automation

- AI-assisted orchestration simplifies test planning, execution, and resource coordination while reducing manual workflow overhead. Teams can accelerate software validation and focus engineering efforts on developing and testing software rather than managing testing operations

FEATURES AND CAPABILITITES

- **Remote Access to Physical Hardware Labs**

  A centralized cloud portal provides secure, time shared remote access to physical hardware labs, including automated hardware preparation, recovery, and lifecycle management. Priority aware, queued reservations and automated target readiness validation ensure predictable access for CI/CD pipelines and large scale testing.

- **Scalable Simulation**

  Studio Testing Suite enables high fidelity simulation with out of the box integration for Intel® Simics® and QEMU, as well as flexible bring your own third party simulation and co simulation models. Teams can begin validation before hardware is available and scale coverage early without increasing reliance on limited physical hardware.

- **Test Automation and Orchestration**

  Test planning and execution are centralized, automated, and AI-orchestrated across simulated and physical targets using a unified environment. Existing test suites, results, logs, trends, and access controls are consolidated to support human-readable insights, consistent execution, and informed release decisions at cloud scale.

- **Functional Safety and Compliance**

  Support consistent, repeatable testing practice's helps software meet functional safety and compliance requirements. Centralized workflows, traceability, extensible test automation frameworks, and controlled reuse of test assets help teams demonstrate compliance and deliver safety critical systems with confidence.

- **AI-Ready Test Infrastructure**

  Natural-language interactions enable AI agents to access virtual and physical test resources and orchestrate testing workflows. Developers and QA teams can leverage intent-driven automation to accelerate software validation while maintaining governance and control.

WIND RIVER STUDIO TESTING SUITE

Studio Testing Suite is part of the Wind River Studio product family and is purpose built to address the unique challenges of embedded software validation at scale. The suite combines capabilities powered by Virtual Lab and Wind River® Studio Test Automation to enable simulation based testing, secure access to shared physical hardware, and automated test orchestration within a unified, cloud native framework. Designed for teams building safety and mission critical systems, Studio Testing Suite integrates seamlessly into existing development workflows, extending validation earlier in the lifecycle and sustaining it through CI/CD pipelines without disrupting how teams already work.

For more information, visit https://www.windriver.com/products/studio-tools.

PARTNER ECOSYSTEM / TECHNOLOGIES

The Wind River partner portfolio includes a large ecosystem of complementary third-party hardware and software solutions. The portfolio helps accelerate time-to-market and differentiate platforms with best-of-breed capabilities while reducing development costs.

Visit our partner ecosystem at www.windriver.com/partners for a full list of our partners and their products.

WIND RIVER PROFESSIONAL SERVICES

The CMMI Level 3–rated Wind River Professional Services organization applies years of system design and development expertise to work collaboratively with customer design and program teams. Professional Services interprets system requirements, architects platform options, and provides recommendations for meeting business, technical, and program goals.

For more information, visit www.windriver.com/services.

WIND RIVER EDUCATION SERVICES

Wind River offers instructor-led, on-demand, and mentored learning, including our anytime, anywhere access to online subscription-based e-learning.

For more information, visit www.windriver.com/education.

WIND RIVER CUSTOMER SUPPORT

Studio Testing Suite is backed by our award-winning global support organization. We offer live help in multiple time zones; the online Wind River Support Network, which includes multifaceted self-help options; and optional premium services, to provide developers with the fastest possible time-to-resolution.

For more information, visit www.windriver.com/services/customer-support.

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