

WIND RIVER STUDIO WORKSPACE

A Complete Development Environment
in Your Browser

Wind River® Studio Workspace streamlines provisioning and configuration of development environments for embedded software. It enables instant creation of secure, fully configured workspaces in public or private cloud infrastructure. Developers can access their workspaces from anywhere, on any computer.

Because new development team members don't need to manually configure new workstations, they can get right to work on their embedded software projects. Standardized tooling and configurations improve collaboration and productivity. Security and compliance are eased, too, because Studio Workspace centralizes resources, developer working directories, and access controls in your cloud environment.

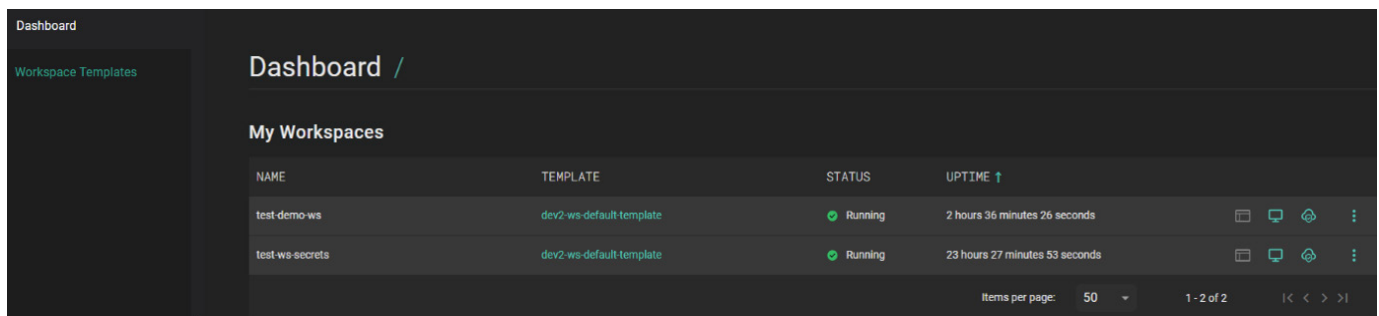


Figure 1. The Wind River Studio Workspace dashboard

BENEFITS

Get New Developers up to Speed Faster

Enable new embedded systems developers with a fully configured development environment on their first day. By moving lengthy IT procurement processes out of the critical path and eliminating manual installation and configuration of tools, developers can get to work sooner.

Reduce Development Friction

Because development and testing happen in a web browser, developers can use the computer or operating system they prefer. Cloud workspaces mean developers can work remotely without disruptive transitions from one device to another. Workspaces use the standardized configurations you create to meet your projects' needs. Every developer's system works the same way, which avoids the dreaded "It works on my machine" scenarios that complicate troubleshooting.

Streamline Security and Compliance

Traditional development practices proliferate private source code across many development machines, which must be made secure and compliant. Studio Workspace keeps all development environments — including developers' working directories — within an organization's own cloud. Comprehensive role-based access controls ensure that developers can only access the projects and resources their roles allow, and a uniform management interface simplifies administration.

Reduce Hardware Cost

Developers often require dedicated, high-powered workstations to remain productive as they build and test large, complex code bases. Studio Workspace provisions virtual workstations in the cloud, enabling teams to scale resources up and down as needed. Developers can remain productive on lower-cost devices, such as typical business laptops or tablets. If their usual hardware fails, they can easily swap to a backup computer and immediately get back to work.

KEY FEATURES

Customizable Environments

Project administrators define a template for each project to establish standardized configurations, so developers and testers can access precisely the tools, resources, and configurations they need.

Browser-Based Workspaces

Developer workspaces are accessible through a web browser, so they can be used from virtually any device. You get the same developer experience whether you access the system from a work or home computer or from a mobile device, using any operating system.

Easily Scalable

Cloud resources are virtually unlimited, so development teams can adjust configurations according to the team's needs — without expensive and lengthy IT procurement cycles. When demand subsides, you can scale down resources to reduce expenses.

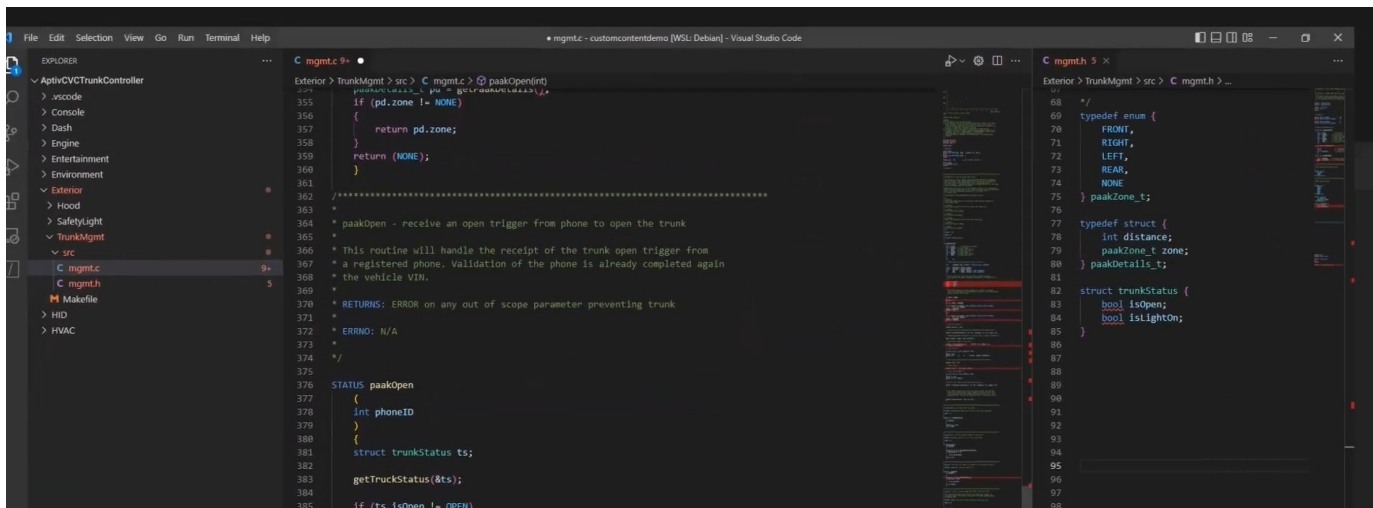


Figure 2. Wind River Studio Workspace integrated development environment

Single-Pane-of-Glass Administration

Administrative needs such as user permissions, access controls, and project assignments are managed in the Studio Developer platform, improving consistency and reducing duplication. Administrators have several ways to manage settings, including CLI, GUI, and API.

Integrated with Studio Developer

As part of the Wind River Studio Developer family, Studio Workspace has easy access to code, artifacts, pipelines, tests, targets, and other resources shared with other projects and teams in your organization.

ADDITIONAL WIND RIVER STUDIO DEVELOPER PRODUCTS

Studio Developer is a cloud-native development, deployment, and operations environment for mission-critical intelligent, embedded edge systems. It enables companies to develop, deploy, and operate complex software-defined edge systems using a modern, scalable, and automated environment. It is purpose built to lower embedded software lifecycle costs, shorten time-to-market, and help create new revenue opportunities.



Wind River Studio Pipelines

Wind River Studio Pipelines helps you create automated workflows for scanning, building, testing, deploying, and updating embedded software projects. Studio Pipelines is cloud native and enables collaboration and sharing of pipelines as valuable software assets for your software organization. Increase productivity and get the most out of your software lifecycle workflows with tools to create automated and customized software development pipelines. Enable CI/CD processes with software lifecycle pipelines using interchangeable building blocks that can easily be integrated into your existing software development infrastructure and extended to meet dynamic project needs.



Wind River Studio Virtual Lab

Wind River Studio Virtual Lab helps embedded software developers detect issues with products that they develop for edge devices prior to deployment. Hardware resources remain a rate-limiting step in any CI/CD and software testing process. Virtual Lab provides cloud-based access, remote management, and sharing of embedded devices (both physical and simulated hardware). It helps alleviate the bottleneck of embedded hardware availability by providing hardware simulation of edge devices and shared access to physical hardware.



Wind River Studio Test Automation

Wind River Studio Test Automation orchestrates automated test executions for embedded edge devices. Specifically designed for the testing of embedded software, it enables software teams to build and exercise software testing workflows that integrate seamlessly with the existing CI/CD/CT environment. Software teams can manage and execute large numbers of automated tests against either virtual or physical test targets.



Wind River Studio Over-the-Air Updates

Wind River Studio Over-the-Air Updates helps software teams deploy and update the software on fielded edge devices. It can be employed to distribute platform and application updates to fleets of edge devices. Accelerate time-to-market, extend product lifespan, roll out the latest security updates, and eliminate expensive recalls with over-the-air software updates to embedded devices.



Wind River Studio Digital Feedback Loop

Wind River Studio Digital Feedback Loop provides rapid feedback on performance of systems and applications operating at the intelligent edge. Gather data such as telemetry, logs, images, and events from edge devices in deployed systems to provide real-time insights from combined OS-level and application-specific data to make data-driven decisions and optimize health, performance, and maintenance of assets deployed at the edge.

PARTNER ECOSYSTEM

The Wind River partner portfolio includes a large ecosystem of complementary third-party hardware and software solutions to help our mutual customers ease integration, speed development, and enhance functionality in their intelligent systems. 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.

PROFESSIONAL SERVICES

The CMMI Level 3–rated Wind River Professional Services organization leverages years of system design and development expertise to work collaboratively with customer design and program teams. Professional Services ensures customer success with premium onboarding and enablement services, helping improve customer software workflows, interpret system requirements, and architect platform options. It also provides recommendations for meeting business, technical, and program goals. For more information, visit www.windriver.com/services.

CUSTOMER SUPPORT

Wind River Studio is backed by our award-winning global support organization. We offer live help in multiple time zones, the online Wind River Support Network with multifaceted self-help options, and optional premium services that provide developers the fastest possible time-to-resolution. For more information, visit www.windriver.com/support.

WIND RIVER EDUCATION SERVICES

Wind River offers instructor-led, on-demand, and mentored learning, including anytime, anywhere access to online, subscription-based e-learning. For more information, visit www.windriver.com/services/education.

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