Wind River Linux LTS
Product Overview

Discover the most configurable Linux development platform.

Wind River Linux LTS is a Linux distribution builder with tools and lifecycle services to help organizations create and support intelligent edge devices.

Build robust, reliable, secure Linux-based edge devices and systems — without the risk and development effort of roll-your-own approaches.

THE WIND RIVER LINUX LTS ARCHITECTURE

Wind River® Linux LTS (LTS stands for "long-term support") is a fully compatible subset of Yocto Project layers and recipes, curated and validated according to real-world scenarios. The Linux distribution builder gives organizations the features they need to develop and support custom distributions for embedded and intelligent edge deployments. Not only can the operating systems power those edge devices but the customized images can also be containerized and used in cloud-native infrastructure. Having minimalistic customized images ensures that no unnecessary attack vectors are added to the end product.

Wind River Linux LTS offers the reliability and dependability that technical scenarios demand. Wind River keeps code bases up to date, tracks and fixes defects, applies security patches, provides customizable runtimes to adhere to market specifications and certifications, facilitates intellectual property and export compliance, and — with all that process efficiency — significantly reduces costs.
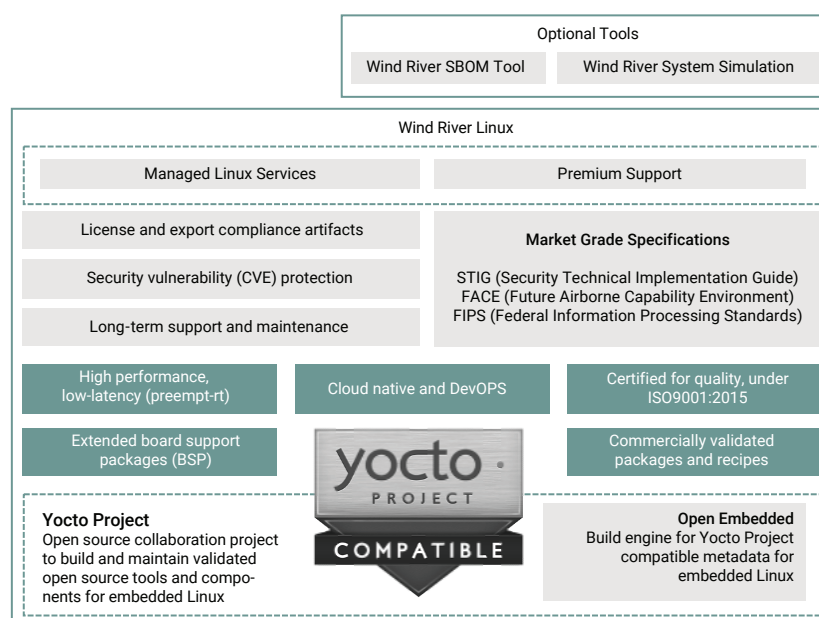

Figure 1. Wind River Linux Overview

WHAT MAKES WIND RIVER LINUX LTS REMARKABLE

Several aspects of Wind River Linux LTS make it stand out for edge deployments.

Wind River Linux LTS helps get Linux-based devices to market faster. It comes with board support packages (BSPs) out of the box that are pre-validated and optimized. The BSPs are aligned with an extensive partner ecosystem.

» *Learn More About Our Board Support Packages (BSPs): www.windriver.com/products/board-support-packages*

Wind River Linux LTS provides long-term support. Wind River Linux LTS provides long-term support for Yocto Project Linux, through a combination of product support and professional services to serve organizations over 10 years or more. Wind River customers get defect fixes and CVE patches continuously throughout the lifecycle of the release. Active subscription customers get support even when the upstream community has stopped supporting the release.

» *Learn more about our Support and Maintenance: www.windriver.com/products/linux/support-maintenance*

Wind River Linux LTS prioritizes security. Wind River is dedicated to building a trusted supply chain throughout product development, delivery, and support. To help development teams achieve cost-effective compliance for an adequate cybersecurity posture, the company provides ongoing threat mitigation and system hardening. We monitor, assess, notify, and deliver fixes for common vulnerabilities and exposures (CVEs) that could make devices susceptible to attack. The secure development lifecycle is enforced by policy and implemented with standards, processes, and procedures that are aligned directly with the NIST 800-218 standard and its principles.

» *Learn More About the Software Development Lifecycle: www.windriver.com/security/secure-development-lifecycle*

Wind River Linux LTS adheres to standards and certifications. The list of industry-specific certifications for highly regulated markets is extensive. Wind River Linux LTS follows strict engineering processes that are certified to ISO 9001:2015 and audited regularly for quality. Wind River Linux offers artifacts, guides, and documentation to help customers comply with the Security Technical Implementation Guide (STIG) and Future Airborne Capabilities Environment (FACE™) Technical Standard. If you require compliance with an industry regulation, Wind River probably already offers it.

» *Learn More About the Standards and Certifications We Cover: www.windriver.com/solutions/standards*

WIND RIVER AND THE YOCTO PROJECT

Wind River is a founding company in the Yocto Project. We provide commercial support and maintenance for the Project as a commercial vendor, and we have a leadership role as an active maintainer and top contributor to the project's code, documentation, governance, advocacy, and community engagement. In addition to actively contributing to upstream community innovation and adhering to open source principles, Wind River focuses its commercial efforts on supporting customers to evolve their product lines as commercially viable and competitive solutions.

Wind River supplies commercial customers with Yocto Project source code, legal notices, software bills of materials (SBOMs), and intellectual property data in SPDX format used to construct products. Intellectual property compliance artifacts are generated automatically and reviewed by analysts, following the latest *OpenChain* standards. This process lets customers benefit from Wind River's experts for proactive CVE analysis, mitigation, and remediation. Gain peace of mind during long-term deployments and comply with maintenance-related regulations such as the *Cyber Resilience Act*.

You aren't on your own. Wind River manages long-term support and service-level agreements for embedded products running customizable Linux, including BSP support with predictable and long-term maintenance. And we are hardware vendor independent.

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Organizations can partner with Wind River on complex architectural decisions. Rely on purpose-built Linux that is configurable for lower hardware resource availability (such as disk and memory size), validated for real time configuration (preempt-rt), and optimized for specific hardware accelerators.

RELY ON THE INDUSTRY LEADER

A Decades-Long History of Superlative Customer Support

Wind River has decades of experience in embedded software, the Internet of Things, and the intelligent edge. Wind River Linux is powering millions of devices deployed worldwide.

For more than 20 years, the company has been a committed champion of and an active contributor to open source. The Wind River suite of products and services offers confidence and flexibility to anyone who prototypes, develops, deploys, and manages Linux-powered devices.

» *Learn More About Our Embedded Offerings: www.windriver.com/products/linux*

WIND RIVER PROFESSIONAL SERVICES

Extend the capabilities of Wind River Linux LTS with professional services that encompass design, architecture, and implementation assistance from industry experts. Our scanning tools and remediation services improve code quality, including security and compliance analysis.

» *Learn About Wind River Professional Services: www.windriver.com/services/linux*

WIND RIVER CUSTOMER SUCCESS

Our award-winning global support organization offers live help in multiple time zones and local languages, in addition to an online network with multifaceted self-help options. Optional premium services provide developers with the fastest possible time-to-resolution.

» *Discover Our Customer Support Options: windriver.com/services/customer-support*

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