WNDRVR

Wind River
Linux Distro

The Binary Distribution for the Intelligent Edge

Wind River® Linux Distro is the first Yocto Project Compatible binary distribution, optimized for popular reference hardware and leveraging CoreOS components for streamlined updates and maintenance. Based on more than 15 years of experience in delivering embedded Linux solutions, Distro uses state-of-the art open source technologies from the Yocto Project and CoreOS as foundational building blocks. The result is a powerful distro purpose built to enable intelligent edge use cases and streamlined application development.

For more information, visit www.windriver.com/products/linux/distro.

BENEFITS

Wind River Linux Distro

Core OS | Collection of tools to assemble packages into images, install images to targets, customize installed software on targets, and keep targets up to date

Yocto Project | Umbrella open source project as a suite of tools and processes enabling the developer to build, from the ground up, an embedded Linux distribution on a broad set of hardware architectures

OpenEmbedded | A build framework of recipes, packages, and related metadata, compatible with the Yocto Project build engine

Wind River Linux LTS | The market-leading, purpose-built, community-based Linux distribution builder, with a comprehensive suite of lifecycle services to build and support intelligent edge solutions for the long term
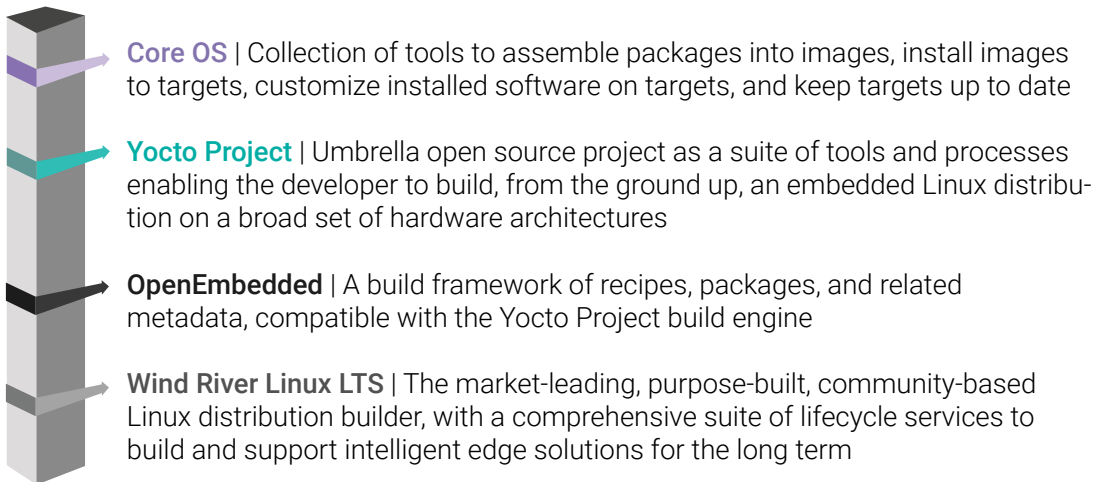
Figure 1. Wind River Linux Distro major components and underlying technologies

- **Commercial supported Linux based on open source community innovation:** Application developers for the intelligent edge seek low-overhead, hardware-optimized solutions to reduce overall time-to-market for deploying apps and updates, especially when working in regulated environments.
- **The power of Linux with flexibility:** With the increased need for on-demand compute at the edge comes a parallel need for a flexible business model that allows faster time-to-market while avoiding vendor lock-in by using open source technologies and standards.

- **Trusted vendor for Linux deployed in highly regulated environments:** Software provenance and indemnity are key while the regulatory environment is tightening, which must be considered when deciding between a roll-your-own or commercial open source solution in mission-critical markets.

FEATURES AND CAPABILITIES

- **Open, no vendor lock-in:** Distro was architected with an upstream-first mentality, based on trusted technologies from the Yocto Project, Open Embedded, and CoreOS. These proven technologies rely on open source community innovation and have been validated in commercially deployed scenarios.

- **Performant and reliable:** Distro uses a high-performance kernel, based on a long-term stable version, configured with preempt-rt patches for improved determinism and near real-time performance. Support and maintenance are provided for at least 10 years, so the distro is a reliable foundation for long-term deployments at the edge.

- **Powerful and user friendly:** Distro offers an optimized user experience for deployment and maintenance, relying on standard open source tools and processes that are streamlined for developers. These tools simplify the overall process for assembling packages into images, installing images to targets, customizing installed software on targets, and keeping targets up to date.

- **Simplified and secured:** Distro's optimized solution relies on a lower footprint, with a small attack surface for better security throughout the lifecycle. The immutable operating system is designed for security and reliability while also allowing faster, simpler ways to deploy updates throughout the long-term lifecycle.

COMMUNITY INNOVATION WITH COMMERCIAL SUPPORT AND MAINTENANCE

Distro brings together the community innovation of two popular open source projects: the Yocto Project, the standard distribution builder tools for the embedded world; and Fedore CoreOS, the minimal, monolithic container-based operating system designed to run containerized workloads securely and at scale. Combining these capabilities and tools with the long-term support capabilities of Wind River Linux LTS, Distro offers a compelling solution that enables easy deployment of intelligent edge use cases.

Relying solely on open technologies and being available to download and use with no costs or licensing agreements, Distro is a great fit for platform developers, software integrators, and intelligent edge application developers.

Download Distro and start building your next project for the intelligent edge:
www.windriver.com/products/linux/download

ADDITIONAL WIND RIVER SOLUTIONS

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.

WIND RIVER 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 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

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

WNDRVR