



# TOP 10 REASONS YOU CAN TRUST YOUR BUSINESS TO WIND RIVER LINUX

Since 2004, Wind River® Linux has delivered the best of open source technology, integrated and optimized for embedded development, with the vision, innovation, and business-risk mitigation only a mature technology vendor can provide. Our customers use our platforms to create groundbreaking devices quicker and more cost-effectively. Here are the top 10 reasons our customers choose Wind River Linux over other commercial and roll-your-own alternatives:

## 1. Market-leading, Yocto Project Compatible, cross-architecture commercial embedded Linux platform, ready-made for the Internet of Things (IoT):

Wind River Linux is the market-leading industry standard for commercial embedded Linux, with over 55% of the embedded Linux market, according to VDC Research Group. As the maintainer of key components to the Yocto Project and a founding member, Wind River is a leader and dedicated contributor to the open source community. The Yocto Project is an open source collaboration that provides standardized high-quality infrastructure, tools, and methodology to increase the portability and decrease the complexity of Linux implementations. Providing a common build system and core technologies, the Yocto Project is helping an embedded Linux market that has long been plagued by expensive and time-consuming fragmentation.

With the technical flexibility of the Yocto Project, you can solve the business problem of needing to scale one common run-time environment across a variety of any-size, any-industry, any-architecture IoT devices. Small, medium, and large footprint devices can leverage the same solution, same code base, and same technical infrastructure. This ability saves money, drives efficiency, and simplifies technological complexity through convergence.

With Wind River Linux, a new delivery mechanism provides an improved out-of-the-box experience for greater software deployment, build speed, and flexibility. Delivered as either source or application-ready, certified binaries, Wind River Linux gives developers maximum control over run-time, allowing portability and integration for a variety of applications from industrial automation to networking to IoT and beyond. It does all this while providing a performant, secure, scalable, and manageable solution boasting features such as 15-second quick boot, rapid install, updates without extra compiling and reboot, no application re-reporting, and centralized cloud orchestration access, making it ideal for IoT. Wind River Linux users can enjoy deploying and building their applications within minutes and directly provisioning updates and security fixes via certified binary feeds.





## 2. Lower total cost of ownership (TCO):

Over the life of your device, commercial offerings that provide a proven embedded Linux with support and maintenance are significantly cheaper, faster, and risk-averse than maintaining a Linux solution in-house. Wind River takes the cost, time, and risk out of embedded Linux by offering a proven commercial solution. When faced with the build vs. buy decision, let the experts at Wind River help you evaluate the options to fully understand what it takes to maintain a roll-your-own solution down the road.

Try our Linux [TCO Calculator](#) to uncover some of the hidden costs and components of your project and to see how Wind River Linux can save you up to 57%.

Wind River investment in each Wind River Linux release and our ongoing patch and security vulnerability management equate to over 160 person-years of effort. Our customers benefit from this investment by trusting Wind River to provide their embedded Linux solution.



## 3. Network Functions Virtualization (NFV) and Software-Defined Networking (SDN), Open Virtualization, OpenStack and compute node, Carrier Grade Linux (CGL), and security capabilities:

Wind River Open Virtualization is the first open source virtualization product that can support hardware consolidation with extremely low latency and high throughput running on standard hardware. It solves the challenges of new service deployment time constraints, data traffic growth scalability, and budget limitations, while remaining true to the spirit of open source. Open Virtualization is based on the principles of SDN and NFV for decoupling network functions from hardware through abstraction.

Connected Node Profile for Wind River Linux provides the infrastructure and services required to support a compute node functionality, including the resources, middleware, and tools needed to build and deploy a high-performance cloud management and virtualized run-time environment.

Carrier Grade Profile for Wind River Linux is the first Linux Foundation CGL 5.0 registered product with Yocto Project compatibility for IA, ARM, MIPS, and PPC. CGL is the essential choice when you require 99.9999% availability and need to meet strict carrier grade standards and high traffic demands while protecting infrastructure.

Security Profile for Wind River Linux has been designed to support the evaluation process against the Common Criteria for various Protection Profiles (PPs). With increasing device connectivity, using a Common Criteria standards-based approach can help address increasing security concerns with the growth of IoT. Always-on equipment requires constant scrutiny over all software update releases, and Wind River handles all the continuous regression testing and fixing that comes with this new generation of always-available devices. Wind River Linux keeps you secure against vulnerabilities with a security response team that monitors 24/7 security threats and provides under-24-hour responses with hot patches to the market's best-known threats. With the security monitoring and remediation practices of an experienced, highly reliable team, you have a trusted provider to ensure risk reduction as you adopt an IoT infrastructure.



#### 4. Our 30+ years of embedded systems experience, cross-industry expertise, and worldwide presence:



As the global leader in embedded technology, Wind River offers the industry's most comprehensive device development portfolio. Companies around the world such as **Alcatel-Lucent**, **Boeing**, and **Fujitsu** trust Wind River as the foundation for their innovation in the networking, aerospace and defense, industrial, medical, and automotive industries.



#### 5. Commercial intellectual property review and disclosure documentation:

As Linux-based embedded devices redistribute the software contained in them, they are subject to open source licensing terms from numerous sources that are extremely complex to manage. Violations of these licensing terms can result in revenue loss and legal damages. Wind River Linux provides a complete bill of materials for all of the open source software used in its construction, providing tremendous value for our customers by reducing the risk and cost of achieving license compliance on their own. We provide this information using the Linux Foundation's standardized Software Package Data Exchange (SPDX) format.



#### 6. World-class global support coverage to address your immediate and long term support needs for the lifetime of your devices:

Wind River Customer Support delivers 24/7 multilingual support from 27 worldwide hubs that can help you overcome challenges and get the most out of our technology. Support services include designated support engineers, hosted customer environments, person-to-person help lines, and our online network for interactive self-help. We are proud to have achieved Service Capability and Performance (SCP) certification, recognized as the gold standard for delivering world-class customer support.

For critical projects with sensitive deadlines, you need a designated support team who understands your unique environment, your application, and your hardware. Our customers use our software for reliable systems used for years—or decades. We offer specialized Premium Project Support and Long Term Support services to provide assistance long after devices have been shipped.



#### 7. Industry-leading tools for development and simulation:

Wind River Workbench and Wind River Simics® provide the perfect combination of tools for development, simulation, debugging, fine-tuning, and system performance optimization. Workbench provides an integrated development environment to configure, analyze, debug, and optimize your system, and Simics simulates systems to accelerate every phase of your development lifecycle, dramatically reducing the risk of shipping late, overrunning budget, and sacrificing quality.

Interoperability with other open source projects, such as Toaster and Eclipse, improves out-of-the-box experience, shortening the learning curve for developers and offering a common, simple framework for managing all system projects.



### 8. Monthly maintenance releases to keep you up to date:

The monthly cumulative patch process includes security monitoring, assessment, prioritization, notification, and remediation along with product patches and updates, eliminating the need to invest in your own maintenance system.



### 9. The largest ecosystem of hardware and software partners:

Together with our partners, Wind River offers the most extensive range of board support packages (BSPs) in the device software industry to aid you with board bring-up and design. Our close relationships with silicon vendors and hardware manufacturers enable us to offer ready-to-use products supporting the latest processors, so you can choose the best development platforms for your specific architecture (IA, ARM, PPC, and MIPS). Using a compatible base allows IoT devices with very different hardware requirements to leverage the same software and libraries on top. [View our BSPs](#) sorted by operating system for more information.



### 10. Best-in-class embedded Linux professional services and education offerings:

Wind River offers services designed to help our customers attain a competitive advantage. We provide consultative thought leadership, deep technical capabilities, and innovative industry solutions to help you overcome your most strategic and pressing embedded Linux development challenges.

For over 30 years, Wind River Professional Services has been here to serve as your partner, working together with your teams so they can focus on your core competencies and deliver market-leading devices and systems. Wind River Education Services offers technically deep hands-on training and mentoring that accelerate your engineers' time-to-productivity using the latest releases. We help your teams bring safe, secure, reliable, and compliant mission-critical systems to market.

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**[Contact us](#) to start your Wind River Linux evaluation today.**

Call +1-800-545-WIND (+1-800-545-9463).

Learn more at [www.windriverlinux.com](http://www.windriverlinux.com).

