WIND RIVER LINUX SUBSCRIPTION AND SERVICES OFFERINGS

The industry's most advanced embedded Linux development platform, with a comprehensive suite of products, tools, and lifecycle services to help our customers build and support intelligent edge devices

Wind River® Linux enables you to build and deploy robust, reliable, and secure Linux-based edge devices and systems without the risk and development effort associated with roll-your-own (RYO) in-house efforts. Let Wind River keep your code base up to date, track and fix defects, apply security patches, customize your runtime to adhere to strict market specifications and certifications, facilitate your IP and export compliance, and significantly reduce your costs.

Wind River is the global leader in the embedded software industry, with decades of expertise, more than 15 years as an active contributor and committed champion of open source, and a proven track record of helping customers build and deploy use case–optimized devices and systems. Wind River Linux is running on hundreds of millions of deployed devices worldwide, and the Wind River Linux suite of products and services offers you a high degree of confidence and flexibility to prototype, develop, and move to real deployment.

Table 1. Comparison of Wind River Linux Delivery Release Options

	Freely Available	Long Term Support (LTS)	Continuous Delivery (CD)
Frequency	**Annually**, with community maintenance	**Annually**, with predictable Rolling Cumulative Patch Layer (RCPL) cadence	**Ongoing**, with every-3-weeks release cadence
Lifecycle	**12 months** (in sync with community)	**60 months** (with options to extend longer, up to **15 years**) **Custom content management (CCM)** option available	**3 weeks**, until next release **CCM** option available
Support	N/A	**Standard**, under under service-level agreement (SLA) **Premium** option available	**Standard**, under SLA1 **Premium** option available
Maintenance	**Community**	**Commercial**, under SLA, with cumulative patches and backporting	**Commercial**, under SLA, with incremental updates and upgrades

Wind River Linux is available in three options for your cadence of code release delivery:

- **Validated community code:** Ready to download, free to use, with no commitment or paperwork to sign
- **Wind River Long Term Support releases:** Source code released with a predictable cadence and standard five-year product lifecycle (extendable with Wind River Professional Services), with regular maintenance releases and continuous security monitoring
- **Continuous Delivery (CD):** DevOps ready with frequent releases based on Yocto Project code, for the continuous integration of the most up-to-date components

THE BENEFITS OF WIND RIVER LINUX

Accelerating Time-to-Market for Linux-Based Devices

- **Streamlined:** Get started today with the Wind River Linux software development environment, freely available on GitHub. Build and optimize your Wind River–based Linux distribution with confidence that it has been thoroughly validated and tested. Help is always at hand from our experts via an IRC channel as well as online documentation. You can easily prototype new designs for a wide variety of CPU architectures, using the many validated board support packages (BSPs) supplied by Wind River and its partners. And subscription customers can also leverage the Wind River Workbench development suite, a comprehensive set of Eclipse-based developer tools for building embedded products.

- **Optimized:** Optimize your Linux-based devices for different market segments, use cases, and CPUs. Wind River Linux is carefully tuned to deliver high-reliability, deterministic, low-latency performance and small footprint, matched to meet the requirements of each use case. Integrate the packages we've already validated. Build from the ground up and create your own layers to easily locate and review all the changes made, add and remove packages, and implement specific features through customized kernel builds.

- **Secure:** Wind River provides ongoing threat mitigation against emerging vulnerabilities. The Wind River security team constantly monitors security vulnerabilities, including specific security notifications from U.S. government agencies and organizations, such as the National Institute of Standards and Technology and the United States Computer Emergency Readiness Team, as well as public and private security mailing lists and the common vulnerabilities and exposures (CVE) database. Wind River also offers system hardening and
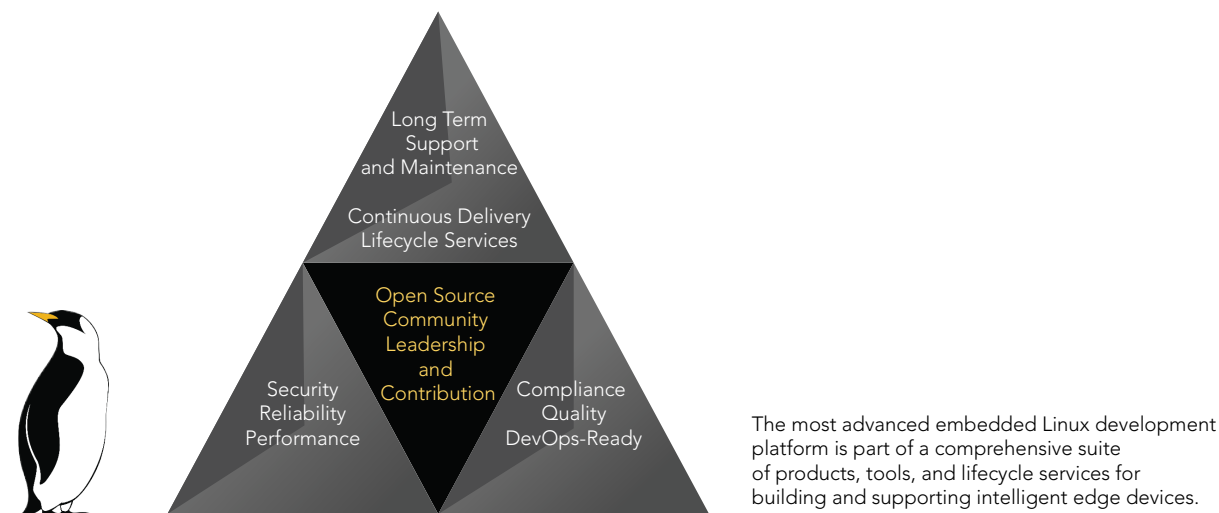

The most advanced embedded Linux development platform is part of a comprehensive suite of products, tools, and lifecycle services for building and supporting intelligent edge devices.

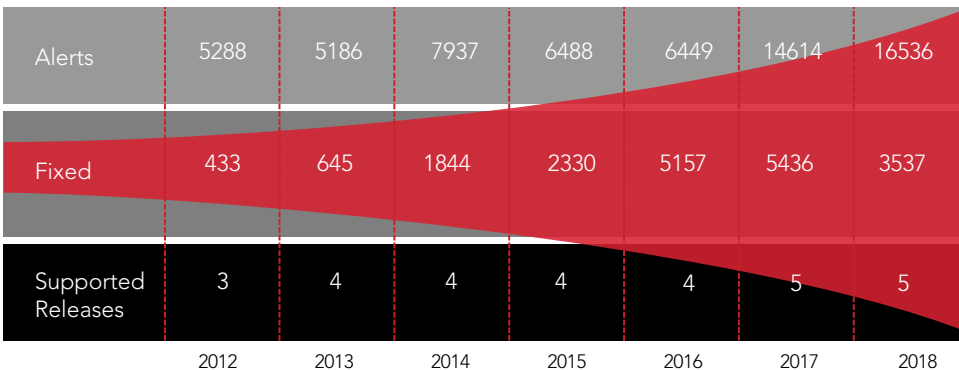*Figure 1. Benefits of using Wind River as your Linux partner*

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securing against cyberattacks. Cybersecurity features are available through the Wind River Star Lab Titanium Security Suite for aerospace and defense use cases and the cybersecurity subscription for Wind River Linux for all other industries.

- **Certified:** Wind River Linux follows strict engineering processes that are certified to ISO 9001:2015 and audited regularly for quality. This certification covers the design, development, integration, verification, validation, and maintenance of open source technologies when packaged into Wind River Linux. For the aerospace and defense segment, Wind River Linux is the first and only Linux OS to be Future Airborne Capability Environment™ (FACE™) Technical Standard conformant, as recognized by The Open Group FACE Consortium. Certified FACE conformance allows A&D developers to utilize open systems architectures, enabling more affordable systems with rapid capability insertion and better software portability.

- **Cloud native:** Cloud-native computing architectures and technologies, such as containers, provide speed and scalability benefits; however, the technology itself is complex and built for the cloud, often inhibiting usage in embedded systems. Simplifying the integration of containers, Wind River provides pre-built containers, tools, and documentation along with support for Docker and Kubernetes frameworks, which aid in the deployment and management of devices in distributed networks, such as radio access network (RAN) products.

Reducing Total Cost of Ownership (TCO) with Wind River Long Term Support

Predictable and frequent OS releases keep your code base up to date.

- **Certified Linux support and maintenance:** Our award-winning, certified maintenance and 24/7 global customer support can drastically reduce your development efforts, lower costs, and better protect you from the risks inherent in managing your embedded software across its entire lifecycle. We monitor, assess, and quickly fix CVEs and defects (see Figure 2) to keep your device running safely and smoothly. Customers can access live assistance, product documentation, software patches, and other resources within the online Wind River Support Network.

- **Open source software (OSS) compliance artifacts:** License compliance requirements arise when using OSS in production devices. To assist you in obtaining license compliance, Wind River supplies the required source code, legal notices, SPDX data, and software bill of materials associated with the OSS used to construct the product. Wind River is the first software to be OpenChain 2.0 conformant. All OSS artifacts are prepared under an OpenChain conforming program, providing an additional level of assurance. These deliverables

	2012	2013	2014	2015	2016	2017	2018
Alerts	5288	5186	7937	6488	6449	14614	16536
Fixed	433	645	1844	2330	5157	5436	3537
Supported Releases	3	4	4	4	4	5	5

NUMBER OF CVES TO FIX INCREASES BY 8X OR MORE OVER LIFECYCLE OF A DEVICE

Figure 2. Total cost of ownership and the hidden costs of security monitoring

relieve developers of the burden of identifying, reporting, and complying with hundreds of OSS license terms.

- **Yocto Project leadership:** Wind River is a founding member of the Linux Foundation's Yocto Project and is one of the top contributors, while also continuing to help maintain many Yocto Project components. As the number one commercial software contributor to the Yocto Project with committed lines of code, Wind River also contributes on project governance and advocacy while being active in terms of communications inside the community.

LIFECYCLE MANAGEMENT SERVICES

The Wind River Customer Success organization provides access to comprehensive knowledge and expertise to help our customers unlock the full potential of open source. Our Wind River Linux product solutions can dramatically reduce the risks and time associated with creating and integrating new technologies. The Customer Success organization offers insights, expertise, and resources built from more than 30 years of leadership in the embedded software industry.

We work together with your development teams so they can focus on their core competencies and deliver market-leading devices, systems, and networks. We help your teams bring safe, secure, reliable, and compliant products to market.

- **Industry-specific requirements:** Wind River can assist design teams with defining and building market-specific requirements for security, safety, and certification.
- **Architecture studies:** Wind River can help customers select the right hardware, Linux version, and packages and set up their architecture so it meets the product requirements.
- **Long Term Support and Maintenance:** Wind River offers long term support and maintenance for all points in your product lifecycle, including extended deployment periods and end-of-life releases.
- **Managed services:** Wind River can support your software branch on your hardware, doing monthly, quarterly, or yearly releases as needed. We can manage the Linux operating system build so you can focus on the areas where you add value.
  - **Custom Content Management:** Wind River manages your software using your hardware.
  - **Frozen Branch Management:** Wind River provides patches and updates for your frozen version of Linux.
- **On-demand engineering services:** Wind River embedded experts are available to help you with your Linux project both onsite or off-site as needed.

ECOSYSTEM SUPPORT

Wind River Linux has multiple partnerships and engagements with the leading hardware and software vendors in the industry. Wind River also collaborates with many of the member companies and contributors of the Yocto Project community. Customers can leverage technical integration and optimizations to add unique capabilities and speed time-to-market.

NEXT STEPS

Visit www.windriver.com/company/contact to find your local Wind River sales contact. Or, to have a representative contact you, call +1-800-545-9463 or write to salesinquiry@windriver.com.