



# WIND RIVER LIFECYCLE SERVICES FOR THE ZEPHYR RTOS

As the demand for connected, embedded, real-time devices continues to rise, developers face increasing challenges: driving innovation, meeting stringent product requirements, and achieving market success. According to DemandSage, the Internet of Things (IoT) market alone is projected to grow from 15 billion connected devices in 2024 to 30 billion by the end of the decade, encompassing emerging use cases in the medical, telecommunications, and industrial automation industries. Developers need a seamless combination of the right software tools and skills plus a forward-thinking strategy for effectively navigating the evolving landscape.

## ADVANTAGES OF ZEPHYR

One of the biggest benefits of using the open source Zephyr RTOS is that there is no vendor lock-in. Additionally, the Zephyr Project is rapidly growing, allowing developers to utilize and participate in community contributions and innovations to solve emerging technical and business challenges.

## WIND RIVER LIFECYCLE SERVICES FOR THE ZEPHYR PROJECT

Open source, community-based development continues to be the best approach to support and drive innovation in high-growth, innovation-driven IoT markets. However, developers and solution builders may not have adequate in-house experience and skills in open source, embedded, or real-time development. In addition to ensuring that the right skills are available at the right time to meet time-to-market and innovation targets, companies must commit to ongoing knowledge transfer to keep up with the latest community advancements. They need to acquire and retain the experience to resolve Zephyr's flexibility-induced complexities; select, configure, and maintain Zephyr toolchains; and invest in long-term lifecycle maintenance and support.



**Zephyr® Project**

## ABOUT THE ZEPHYR PROJECT

The Zephyr® Project, developed by the Linux Foundation, excels at addressing the footprint and real-time demands of IoT and embedded devices with limited resources. It offers a versatile platform that prioritizes interoperability and flexibility, particularly for microcontroller devices requiring high security, real-time communication, and control. With its modular architecture, extensive hardware support, and vibrant developer community, Zephyr empowers developers to customize applications that cater to the specific requirements of their embedded environments. Moreover, it boasts precise timing capabilities for real-time workloads and seamless scalability across a wide range of supported hardware.

Developing in the open source realm, with its many advantages, also requires a paradigm shift for commercial applications. Companies must learn to integrate into a community-based development model, dedicating time and resources to participate, influence, and advocate for future platform roadmaps while navigating a community-centered environment that is unlike that of most corporate cultures.

To address these challenges, customers are turning to Wind River® Lifecycle Services for assistance with Zephyr. As an open source leader and Zephyr Project founding member, Wind River partners with innovators across technology industries to accelerate, customize, and optimize development processes throughout the lifecycle, resulting in faster time-to-market and lower development costs. Wind River offers a suite of tailored services that complement customers' own capabilities, allowing them to extend expertise, augment staff, and expand influence within the Zephyr Project community.

### **Extend Your Expertise**

Leverage the Wind River multi-industry, multi-customer experience in performing architectural assessments, security threat analysis, design implementation, open source licensing, IP compliance identification, and compliance remediation using objective and certified third-party processes.

### **Augment Your Staff**

Expand and accelerate your team's capabilities with Wind River Zephyr experts who can assist with design planning, implementation, real-time tuning and optimization, driver development and updates, software updates, CVE and defect monitoring and management, board support package (BSP) and custom driver development, long-term support, and even device decommissioning services.

### **Expand Your Influence**

Whether you are new to open source development or lack the time and resources for ongoing community involvement, Wind River can be your trusted advisor in the open source ecosystem. Our experts become your community leaders and influencers, advocating for features and influencing platform roadmaps on your behalf, ensuring that your innovation is always future proof.

### **Innovate Faster, Innovate Smarter with Wind River**

The Wind River Zephyr Services approach delivers a perfect-fit RTOS for every use case. We apply our architectural and design services to your specific requirements, capitalizing on Zephyr's modular architecture and implementation flexibility to select and optimize to your exact needs. We collaborate within Zephyr's open source and community development conventions, acting as your advocate for current and future roadmaps.

**By working closely with the community, we assure ongoing freedom to innovate on your terms, secure in the knowledge that your solution's code is community maintained and commercially supported. We take care of the mundane tasks, freeing you to focus on innovation.**

Find out if Zephyr is the right operating system for your project. [Contact us](#) for a free initial assesement.

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