



# BRIDGING THE GAP: THE FIRST ENTERPRISE-GRADE LINUX SOLUTION FOR THE CLOUD-TO-EDGE CONTINUUM

## THE GROWING DEMAND FOR SPECIALIZED LINUX SOLUTIONS

As the Linux market is set to soar to nearly USD 100 billion by 2032,<sup>1</sup> businesses are facing mounting challenges in managing increasingly complex workloads spanning from the cloud to the edge. Traditional Linux distributions are not built to meet the specific demands of these modern use cases, creating an urgent need for a more specialized, enterprise-grade solution.

Historically, enterprises have depended on general-purpose Linux distributions operating across racked servers and hybrid data centers to centrally store and process their data. But with the rapid rise of edge computing and the Internet of Things (IoT), real-time data processing closer to the source has become mission-critical. Industries such as healthcare, telecommunications, industrial automation, and defense now require localized, lightning-fast processing to make real-time decisions.

This shift to edge computing and connected IoT has sparked a surge of use cases that demand specialized solutions to address unique operational requirements such as size, performance, serviceability, and security. For instance, the telecommunications sector demands carrier-grade Linux (CGL) and edge vRAN solutions with reliability requirements exceeding 99.999% uptime.

Yet traditional enterprise Linux distributions — while robust for central data centers — are too general to meet the diverse, exacting needs of IoT and edge environments. Linux offerings are continuing to expand beyond conventional distributions such as Debian, Ubuntu, and Fedora, but the market lacks a unified platform that can effectively bridge the gap between edge and cloud workloads.

## TODAY'S COMPLEX COMPUTING NEEDS DEMAND A UNIFIED SOLUTION

To stay competitive, businesses need computing solutions that process time-sensitive data at the edge, connect intelligent devices, and seamlessly share insights across cloud environments. But no single Linux provider has yet bridged the cloud-to-edge divide — until now.

## INTRODUCING ELXR PRO: ONE SEAMLESS SOLUTION FOR ALL ENTERPRISE-GRADE WORKLOADS

eLxR Pro™ breaks new ground as the industry's first end-to-end Linux solution that connects enterprise-grade workloads from the cloud to the edge. By delivering unmatched commercial support for the open source eLxR project, Wind River® has revolutionized how businesses manage critical workloads across distributed environments, unlocking new levels of efficiency and scalability.

As a founding member and leading contributor to the eLxR project, Wind River ensures that the eLxR project's enterprise-grade Debian-derivative distribution meets the evolving needs of mission-critical environments. This deep integration provides customers with unparalleled community influence and support, making Wind River the go-to provider for secure, reliable, enterprise-grade Linux deployments.

## WHY ELXR PRO IS A GAME-CHANGING SOLUTION

Built on the stable foundation of Debian, eLxR Pro offers the proven reliability and hardware compatibility needed for the most demanding use cases. Whether you're managing centralized cloud applications or distributed edge systems, eLxR Pro delivers a tailored solution backed by expert commercial support, streamlining operations and accelerating innovation.

This breakthrough solution is the result of Wind River's 20-year leadership in the open source community and embedded systems market. By bridging critical gaps for enterprises, eLxR Pro empowers businesses to scale seamlessly, innovate faster, and thrive in a connected world.

## THE ELXR PROJECT: EXPANDING ACCESS TO CUTTING-EDGE TECHNOLOGIES

The eLxR project is a community-driven initiative that offers an open source, enterprise-grade Debian-derivative distribution. This platform empowers enterprises to adopt scalable, secure, and reliable Linux solutions for cloud-to-edge deployments.

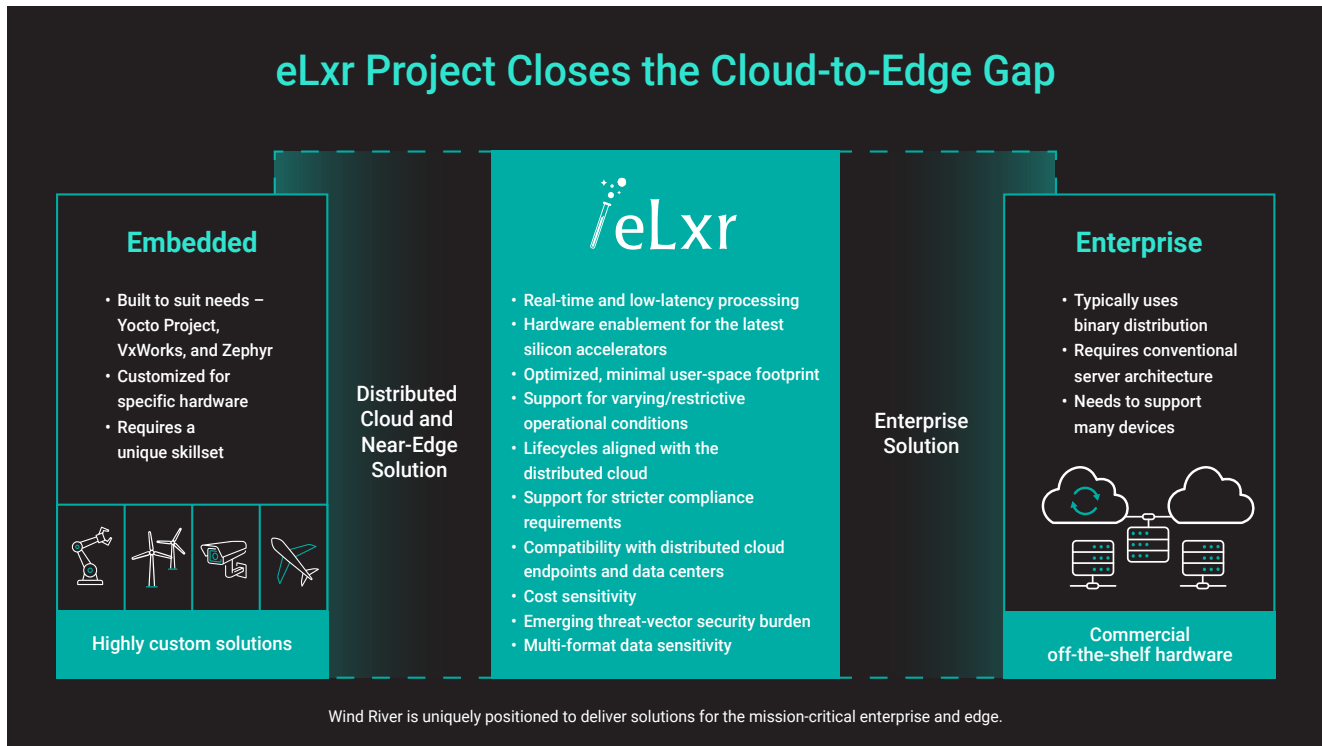
- **Upstream-first approach:** Fully aligns with Debian's open governance, ensuring a free operating system that preserves software freedom
- **Cloud-native ready:** Optimized for containerized workloads and supported across a range of modern runtimes
- **Performance optimized:** Ready for commercial off-the-shelf (COTS) hardware and prioritizing support for silicon accelerators
- **Security first:** Continuous security monitoring throughout package lifecycles
- **Compact and extensible:** Right-sized packages adaptable to industry-specific needs

## 5 WAYS THE ELXR PROJECT HELPS CLOSE THE GAP

1. **One platform for every use case:** Deploy a unified Linux solution that scales effortlessly across environments, from cloud to edge, enabling smooth usage and the adoption of diverse hardware and new technologies.
2. **Unmatched flexibility for innovation:** Control your innovation roadmap with the eLxR project's fully open source, upstream-first approach, eliminating vendor lock-in and putting the pace of progress in your hands.
3. **Built for scalability:** Whether you're scaling up in data centers or optimizing lightweight edge devices, the eLxR project is engineered to adapt, ensuring seamless performance across every infrastructure.
4. **Optimized for cost efficiency:** With a minimal footprint and a tailored feature set, the eLxR project reduces complexity, cuts operational expenses, and enhances power efficiency, particularly in resource-constrained environments.
5. **Enterprise-ready support:** Gain confidence in your deployments with comprehensive lifecycle support, ensuring that your Linux platform is always secure, up-to-date, and backed by dedicated Wind River experts.

## PARTNER WITH WIND RIVER TO DRIVE CLOUD-TO-EDGE SUCCESS

With two decades of expertise in Linux and open source solutions, Wind River is uniquely positioned to help you succeed in even the most demanding cloud-to-edge deployments. eLxr Pro offers the flexibility, support, and innovation necessary to stay ahead in a rapidly evolving digital landscape. Ready to close the gap between the cloud and the edge? Contact Wind River to discover how eLxr Pro can transform your operations.



<sup>1</sup> Fortune Business Insights. "Linux Operating System Market Size, Share & Industry Analysis, by Distribution (Virtual Machines, Servers, and Desktops), by End-use (Commercial/Enterprise and Individual), and Regional Forecast: 2024–2032," August 2024, [www.fortunebusinessinsights.com/linux-operating-system-market-103037](http://www.fortunebusinessinsights.com/linux-operating-system-market-103037)