

WINDRVR

Modernizing the Systems the World Depends On

The Mission-Critical Modernization Paradox

Some systems can't fail, but they still need to change.

Mission-critical systems oversee factory production lines, manage telecommunications networks, support hospital systems, and power the infrastructure that sustains modern economies.

However, as enterprise infrastructure becomes more distributed across cloud and edge environments,

organizations must modernize without sacrificing reliability, security, or operational stability.

The systems they rely on most need to change the quickest.

This is the **mission-critical modernization paradox**.

Your mission, should you choose to accept it...



Modernizing the systems your world depends on

Wind River helps organizations modernize infrastructure without compromising mission-critical operations.

Grow revenue and cut costs

With Wind River's intelligent automation and orchestration tools, organizations streamline processes, reduce operational costs, and achieve greater scalability across distributed deployments, all while quickly integrating new technologies such as AI.

"4 out of 5 modernization initiatives fail to achieve their intended outcomes."

The Reality of the Distributed Enterprise

Enterprise infrastructure has moved far beyond the traditional datacenter.

Today's digital infrastructure includes legacy systems, private infrastructure, public cloud platforms, and distributed edge systems. Meanwhile, computing power is shifting closer to where data is generated, and operations happen – in factories, vehicles, retail stores, hospitals, telecommunications networks, and industrial settings.

Capable and complex

This distributed architecture enables powerful new capabilities, from real-time analytics to AI-driven automation. However, it also brings new complexity.

And without a solid platform foundation, this complexity can impede innovation rather than promote it.

The Executive Mandate

For enterprise leaders, managing the distributed enterprise involves balancing three key strategic priorities...

/01

Grow revenue

Speed of innovation is crucial. Organizations must speed up the creation and rollout of new services, digital experiences, and smart products.

Consistent infrastructure environments, from cloud to edge, facilitate faster development cycles and quicker time to market.

/02

Optimize cost

Infrastructure complexity has become a key driver of operational costs. Fragmented tools, duplicated processes, and inefficient use of resources generate unnecessary overhead.

Automation, consolidation, and unified management platforms help organizations reduce complexity and enhance efficiency.

/03

Manage risk

Security, compliance, and operational resilience are now top priorities for the board. Distributed environments increase the attack surface and complicate the maintenance of consistent security practices.

Organizations must ensure their infrastructure stays secure, resilient, and compliant across all environments where their systems run.

Where the enterprise now runs:

Your infrastructure now spans:

Factories

Vehicles

Retail stores

Hospitals

Telecom networks

Edge environments, such as IoT devices



This distributed infrastructure encourages innovation but introduces new challenges:

Operational scale

Security exposure

Infrastructure complexity

Without a unified operational foundation, modernization efforts often increase complexity rather than reducing it.

Our perspective

Wind River was built for environments where failure is not an option.

For decades, Wind River's software has supported mission-critical systems across industries like aerospace, telecommunications, automotive, and industrial infrastructure. Today, enterprise infrastructure is becoming equally essential.

Reliability, security, performance

As organizations function across distributed cloud and edge environments, the systems that support modern business operations must provide the same levels of reliability, security, and performance.

Wind River applies its mission-critical heritage to this new enterprise landscape.

Lower complexity and faster modernization

Most IT organizations use fragmented, point-solution tools that don't integrate well. This leads to redundancy, manual tasks, and hidden costs. On top of that, the sobering fact is that 75% of companies go over their cloud budgets.

Organizations face challenges in optimizing infrastructure investments while handling technical debt and operational complexity, and CFOs are pushing for consolidation and increased efficiency.

Organizations migrating to unified, integrated platforms generally cut operational costs by 25-40%, free up skilled staff for strategic initiatives, and significantly enhance visibility into IT spending and ROI.

What Wind River Provides

Wind River offers a unified platform foundation across cloud and edge environments, enabling organizations to modernize their infrastructure without sacrificing the essential attributes that mission-critical systems rely on.

enterprises accelerate innovation, deliver value by lowering infrastructure complexity and costs, and improve the resilience of the systems their businesses rely on.

Our value proposition is simple: reliability, security, performance, lower complexity, and faster modernization.

By applying consistent management, automation, and operational control across distributed environments, Wind River helps

A foundation for the distributed enterprise

01

Unified platform foundation

Across cloud and edge environments

02

Mission-critical attributes

Reliability, security, and performance

03

Business outcomes

- Faster innovation
- Reduced complexity and cost
- Reduced risk

Unified, Fast, Strong And Everywhere

Enterprise infrastructure is entering a new era...

As computing extends beyond centralized datacenters into distributed cloud and edge environments, organizations must rethink how they build, manage, and secure their digital operations.

The challenge isn't just adopting new technologies. It's about fostering innovation while ensuring the stability, efficiency, and resilience demanded by mission-critical systems.

Organizations that succeed will create a unified foundation for the distributed enterprise – one that enables faster innovation, stronger security, and greater operational control across every environment where their business operates.

Know more

To learn how Wind River can assist in modernizing the systems your world relies on – without risking mission-critical operations – schedule an executive modernization briefing with our team.

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