WNDRVR



Wind River Conductor

Centralized orchestration and automation for distributed cloud infrastructure and workloads

Managing infrastructure and workloads across increasingly distributed cloud environments introduces operational complexity at scale. Organizations need a centralized way to maintain consistency across edge sites, data centers, and enterprise IT while reducing the burden of manual operations.

Wind River Conductor simplifies the deployment and management of infrastructure and applications across distributed cloud environments. It provides a unified approach to orchestrating virtualized and containerized workloads using policy-driven automation.

Conductor combines intelligent deployment planning, scalable workflow automation, and workload lifecycle management. Operations teams can make more informed decisions about where workloads should run and automate their deployment and ongoing management.

KEY BENEFITS

Wind River Conductor helps organizations improve operational efficiency, accelerate service delivery, and adapt more easily as infrastructure and workload requirements evolve.

- **Centralized operations at scale:** Coordinate infrastructure and workload operations across distributed environments from a common orchestration platform.
- **Smarter deployment decisions:** Use intelligent deployment planning to determine where workloads should run based on infrastructure availability and requirements.
- **Automation across the lifecycle:** Apply policy-driven workflows to deployment and ongoing workload management, reducing reliance on repetitive manual processes.
- **Unified workload management:** Manage virtualized and containerized workloads through a common approach across edge, data center, and enterprise IT environments.

KEY CAPABILITIES

Wind River Conductor delivers the capabilities needed to automate and orchestrate operations across distributed cloud environments:

- **Centralized orchestration:** Coordinate infrastructure and workload operations across distributed cloud environments from a common control point.
- **Scalable workflow automation:** Execute up to 1,500 concurrent workflows, 100,000+ deployments, and 250,000+ executions across distributed infrastructure.
- **Intelligent deployment planning:** Determine where workloads should run based on infrastructure availability, requirements, and operational policies.
- **Workload lifecycle management:** Automate deployment, scaling, updates, and ongoing management of virtualized and containerized workloads.
- **Policy-driven automation:** Apply reusable policies and workflows to improve operational consistency and reduce manual intervention.
- **Blueprint-based service modeling:** Use reusable TOSCA-based blueprints to standardize service deployment and lifecycle operations.
- **Extensible orchestration:** Integrate infrastructure, provisioning, monitoring, and lifecycle systems through plugins and automation interfaces.
- **Role-based access control:** Manage user permissions and access to orchestration functions.

CENTRALIZED ORCHESTRATION

Wind River Conductor provides centralized orchestration for infrastructure and workloads across distributed cloud environments. Operations teams can manage deployment and lifecycle activities centrally while maintaining consistent policies and operational processes across sites.

- Orchestrates virtualized and containerized workloads across distributed environments.
- Coordinates operations across clouds, data centers, and edge sites.
- Automates infrastructure and workload lifecycle activities from deployment through updates and decommissioning.
- Applies policy-driven workflows to improve consistency across distributed environments.
- Integrates with provisioning, monitoring, fault management, and lifecycle systems through extensible plugins and automation interfaces.

ZERO-TOUCH AUTOMATION

Automate complex, repetitive tasks across distributed environments to accelerate service delivery and reduce human error. Conductor applies reusable workflows and policies to provisioning, scaling, updates, maintenance, and workload lifecycle operations.

- **TOSCA-based blueprints:** Use predefined, reusable templates to automate service deployment and lifecycle management.
- **Policy-driven orchestration:** Apply operational policies to automate placement, scaling, failover, and resource allocation.
- **Automated updates and maintenance:** Coordinate system updates, patches, and maintenance workflows while reducing operational disruption.
- **Workflow automation**: Orchestrate end-to-end operational processes and eliminate repetitive manual tasks.

DISTRIBUTED CLOUD AND MULTISITE MANAGEMENT

Wind River Conductor provides centralized orchestration across distributed environments, from data centers to geographically dispersed edge sites. Operations teams gain consistent visibility, automation, and governance while managing infrastructure and workloads across multiple locations.

- **Unified visibility and governance:** Manage infrastructure and workload operations across distributed sites from a centralized interface while applying consistent policies and automation.
- **Multisite operations:** Coordinate operational processes across geographically distributed environments.
- **Scalable automation:** Coordinate workflows across growing environments without relying on repetitive site-by-site operations.

HIGH AVAILABILITY FOR MISSION-CRITICAL DEPLOYMENTS

Wind River Conductor works with Wind River Analytics to support resilient operations across distributed cloud environments. Together, they help operations teams detect issues, automate recovery actions, and maintain service continuity across geographically distributed infrastructure.

- **Automated healing and recovery:** Redeploy workloads or services to healthy resources when failures are detected.
- **Policy-driven fault management:** Apply predefined policies to automate fault handling and recovery actions.
- **Automated maintenance workflows:** Coordinate updates and maintenance activities while reducing operational disruption.
- **Comprehensive monitoring:** Use real-time system health visibility to identify and address issues proactively.

SCALABILITY FOR DISTRIBUTED CLOUD ENVIRONMENTS

Wind River Conductor orchestrates operations across large, geographically distributed environments. Its scalable architecture supports growing infrastructure, workload volumes, and automation demands across data centers and edge sites.

- **Distributed orchestration:** Scale management and automation across geographically distributed environments with centralized control.
- **Unified operations:** Maintain consistent visibility and operational processes as infrastructure and workloads grow.
- **Automation at scale:** Coordinate high volumes of workflows and deployments across large distributed environments.

A SUPPORT TEAM READY TO HELP

Wind River Conductor is backed by an award-winning global support organization that offers live help in multiple time zones, with 24/7 emergency recovery and service restoration and standard Tier 1 and Tier 2 break/fix support. The online Wind River Support Network, with multifaceted self-help options and optional premium services, provides customers faster time to resolution.

For more information, visit www.windriver.com/support.

HOW TO PURCHASE

Improve the way you deploy and manage workloads across clouds, data centers, and edge sites. Contact your Wind River account manager or visit www.windriver.com/contact.

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Wind River is a global leader of software for the intelligent edge. Its technology has been powering the safest, most secure devices since 1981 and is in billions of products. Wind River is accelerating the digital transformation of mission-critical intelligent systems that demand the highest levels of security, safety, and reliability.

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