Deployed in over 1.5 billion devices, VxWorks® is the world’s leading real-time operating system (RTOS). With VxWorks, manufacturers of embedded systems gain a competitive edge by bringing industry-leading devices to market faster, while reducing risks and development costs. VxWorks delivers uncompromising real-time performance, determinism, and low latency along with the scalability, security, and safety required for aerospace and defense, industrial, medical, automotive, consumer electronics, networking, and other industries. It has become the RTOS of choice for such leading innovators as ABB, Alcatel-Lucent, BD Biosciences, Boeing, Delphi, Eurocopter, Huawei, Mitsubishi, NASA, and Northrop Grumman.

With over 30 years of leadership in embedded technology, Wind River® has now redefined VxWorks to help manufacturers of embedded devices meet the challenges of the era of the Internet of Things (IoT), where connectivity, scalability, and security are required. Its future-proof architecture can adapt and evolve to meet changing market requirements, customer needs, and technology advancements.

**BENEFITS**

- **Faster time-to-market:** VxWorks delivers a complete RTOS solution for device manufacturers that minimizes the time required to create a scalable OS foundation for a differentiated product offering.
- **Lower development costs and risks:** VxWorks boasts a large ecosystem of complementary third-party hardware and software technologies, enabling customers to differentiate their products with cutting-edge features and capabilities and cut costs by deploying out-of-the-box integrated and validated solutions.
- **The RTOS foundation for today and tomorrow:** The expandable, upgradable architecture of VxWorks 7 separates the core kernel from middleware, applications, and other packages, which enables bug fixes, upgrades, and new feature additions to be accomplished faster and without requiring retesting or recertification of the entire system.

**KEY FEATURES**

VxWorks 7 Core Platform is the culmination of a 30-year track record of Wind River leadership in RTOS technology. This versatile platform is used for devices in industries ranging from aerospace and defense to industrial, medical to automotive, and small-footprint consumer devices to large networking equipment.
Industry-Leading RTOS

- Single and multi-core processor support with asymmetric multiprocessing (AMP) and symmetric multiprocessing (SMP)
- 32-bit and 64-bit CPUs
- Broad spectrum of silicon architectures including ARM®, PowerPC, and Intel®
- Memory-protected, real-time process (RTP) user space environment
- Backward compatibility with previous versions of VxWorks 6.x
- Kernel scalability, modularity, and performance tuning using VxWorks Source Build
- State-of-the-art memory protection and memory management

Wind River Workbench

- Eclipse-based integrated development environment
- Eclipse Target Communication Framework (TCF)
- Full-featured Eclipse C/C++ Development Tooling (CDT)
- Optimizing compilers
- Wind River Diab Compiler for VxWorks
- Intel C++ Compiler and Intel Performance Primitives for VxWorks
- Wind River GNU Compiler

Connectivity Solutions

- Multi-OS messaging using TIPC and Wind River Multi-OS IPC (MIPC)
- USB (host, peripheral, and OTG support)
- File systems
- NAND and NOR flash support
- dosFs (FAT-compatible file system)
- Highly reliable file system (HRFS) with configurable commit
- Dual-mode IPv4/IPv6 network stack, with IPv6 Ready Logo certification

In addition to VxWorks 7 Core Platform, add-on profiles are available that are tailored to meet the varying requirements of customers across all industries, as well as technology profiles for security, safety, and virtualization.

WIND RIVER CUSTOMER SUPPORT

VxWorks is backed by our award-winning global support organization. We offer live help in multiple time zones, the online Wind River Support Network with multifaceted self-help options, and optional premium services, to provide you the fastest possible time-to-resolution. We are proud to have achieved Service Capability and Performance certification, recognized as the gold standard for delivering world-class customer support. For more information, visit www.windriver.com/support.