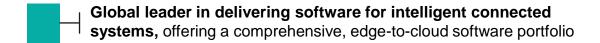
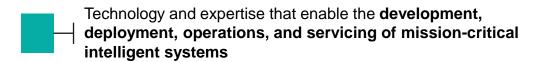


WIND RIVER AT A GLANCE





─ Wind River technology found in more than 2 billion products

Award-winning customer support, a broad partner ecosystem, and world-class professional services

Headquartered in Alameda, CA, with ~1,300 employees, including 460 in R&D and 235 in GTM























Market Share in Edge Compute OS Platforms







NEW WAVE OF AI-INFUSED EDGE SOLUTIONS THAT NEED COMPUTE, DATA ANALYTICS, AI/ML, 5G AT THE INTELLIGENT EDGE







SAFETY CERTIFIABLE, MULTI-CORE, MULTI-TENANT PLATFORM FOR MIXED LEVELS OF CRITICALITY

WIND RIVER STUDIO VIRTUALIZED OS PLATFORM

- Powered by Helix Virtualization Platform
- An evolutionary, modern platform, based on solid foundations and successful deployments of VxWorks 653 lineage

- Support for PowerPC
- Features
 - DO-178C A certification evidence
 - IMA design
 - FACE 3.0 conformance
 - ARINC 653 extensions
 - Wind River Linux guest support

- Support for IA64 and ARMv8
- Features
 - Certifiable (DO178C, IEC 61508, ISO26262)
 - Integrated modular avionics (IMA) design
 - FACE 3.1 support
 - ARINC 653 extensions
 - Wind River Linux and latest VxWorks guest support

VxWorks 653 MCE

Helix Virtualization Platform

PROVEN, SUCCESSFUL TRACK RECORD FOR ARINC 653 SPECIFICATIONS IN IMA

OVER 20 YEARS

experience in safety certification software products

Safety is paramount in today's advanced avionics systems, leaving no room for undue latency, system failure, or security vulnerabilities.



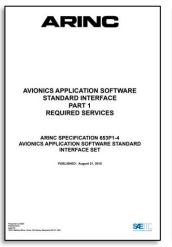
MIXED CRITICALITY PARTITIONING

 Consolidate multiple operating systems and deploy mixed-criticality applications on a single edge compute platform, reducing size, weight, and power.

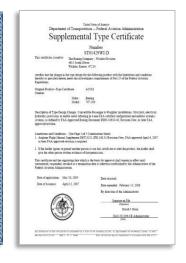


AIRWORTHINESS STANDARDS

- Avionics OEMs, suppliers, systems architects, and planners can rely on the features and capabilities of the real-time platform that supports Intel® Xeon® D-1700/2700 and 11th Gen Intel® Core™ processor-based platforms and adhering to industry certification standards, including ARINC 653; POSIX®; and FACE™ Technical Standard, Edition 3.1
- The time-consuming, technically complex tasks involved in meeting airworthiness criteria can be simplified by means of processor-specific Flight Safety Evidence Packages (FSEPs) available from Intel. Embedded Intel® Xeon® D processors include airworthiness evidence packages for DO-254 DAL C and DO-254 DAL A, as well as confirmed support for the leading DO-178C certifiable real-time operating system, VxWorks.







ARINC 653

FACE™ 3.1

DO-178C
Software Considerations in Airborne Systems
(Certifiable to DAL A)

INTELLIGENT SYSTEMS USE CASES











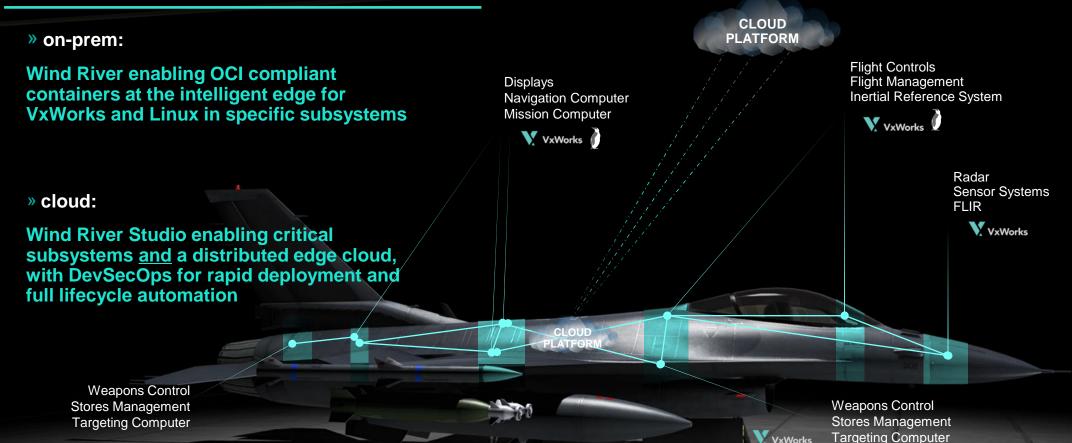








CASE STUDY: EVOLUTION OF EDGE SYSTEMS IN A&D



Joint All-Domain Command and Control (JADC2) is the DOD's concept to connect sensors from all of the military services — Air Force, Army, Marine Corps, Navy, and Space Force — into a single network

Implementation requires a cloud-like environment connected to existing critical systems for the Joint force to share intelligence, surveillance, and reconnaissance data, transmitting across many communications networks, to enable faster decision-making









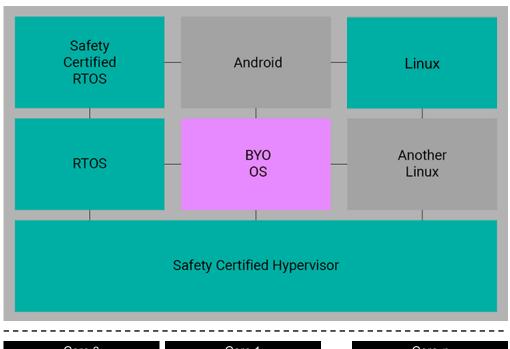


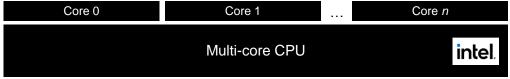


GUEST OS AND HARDWARE SUPPORT

Guest OS support

- Support for SMP guests
 - APEX, health monitor, AMIO, shared memory, and MPFS
- VxWorks (latest), VxWorks Cert
- Wind River Linux
- Bare metal
- Non–Wind River OSes (via Professional Services)





Intel® Xeon® D-1700/2700 and 11th Gen Intel® Core™ processor-based platforms

Call of action

Wind River Studio

https://www.windriver.com/studio/tour

Helix Virtualization Platform Product Page

https://www.windriver.com/studio/edge-devices/virtualized-os

White Paper

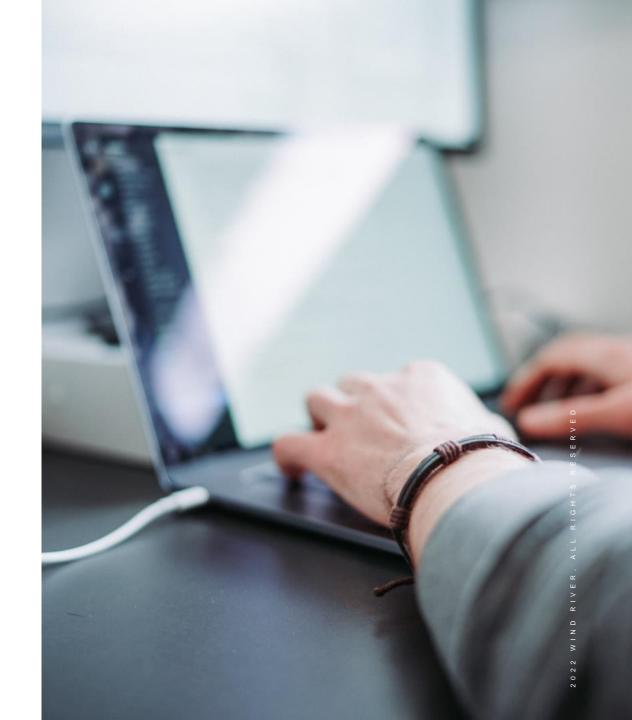
https://www.windriver.com/resource/enabling-the-migration-to-software-defined-platforms-for-critical-infrastructure

Video: Urban Air Mobility at the Intelligent Edge

https://www.youtube.com/watch?v=GGUfzGIBPAo

Video: Digital Cockpit Flight Display Demonstration

https://www.youtube.com/watch?v=-fDo2u3z3PA





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Your costs and results may vary.

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