

## DATASHEET

# Unwired Edge Cloud OS.

Feature List 2025/08/14

OpenWrt-based, secure operating system for modern industrial and mobile edge devices.

**Unwired Edge Cloud OS is a Linux OpenWrt-based distribution powering embedded edge devices in industrial, fleet, and mobility networks.**

It delivers secure provisioning, lifecycle management, and runtime isolation—built for long-term deployments and rapid application delivery.

## Platform Foundation

- OpenWrt-based OS with >10 years lifecycle
- Multi-architecture: MIPS, ARM, x86, PPC
- Decoupled from hardware vendor constraints
- Secure development lifecycle
- ISO 27001, 9001, NIS2, RED 3.3 compliant
- IEC 62443-4-2 and CRA compliance upcoming

## Connectivity & Control

- Advanced modem stack: roaming, SIM switching, band lock
- Native support for CloudLink WAN bonding (Bondix)
- Wireless and wired failover routing

## Observability & APIs

- OpenMetrics/Prometheus monitoring
- Full REST API and GUI
- Cloud-native provisioning and remote config

## Technical Highlights

- OpenWrt-based long-term firmware foundation
- Secure key infrastructure and firmware signing
- OTA upgrade framework and modular updates
- CLI, API, and GUI-based fleet control

## Provisioning & Lifecycle

- Zero-touch onboarding with secure certs
- OTA updates with rollback and version control

- Cloud-based lifecycle separation: OS vs runtime vs config

- Compatible with Unwired Edge Compute orchestration

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## Container Runtime & Integration

- Built-in OCI container support
- Secure isolation of edge workloads

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## Use Cases

- Edge computing and routing in public transport
- Retrofittable, vendor-neutral router firmware
- Remote telemetry and containerized app delivery