

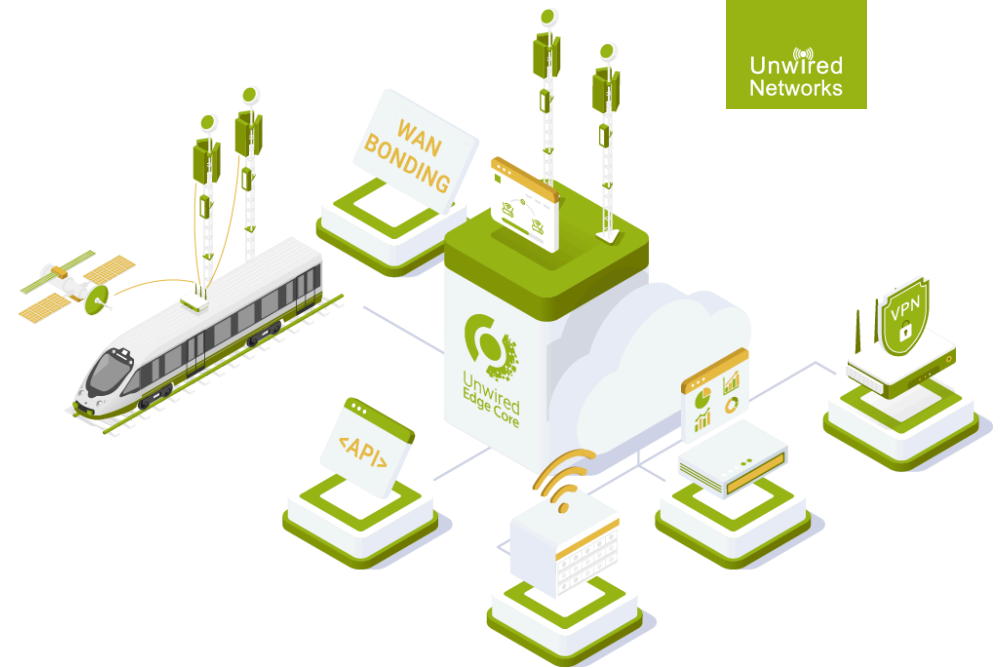
Unwired Edge Core Datasheet

Centralized network and device management with provisioning, telemetry, and updates.

Feature List 2024/11/04

Unwired Edge Core offers powerful, cloud-based, and vendor-agnostic network and device management that simplifies the integration and orchestration of numerous devices and significantly reduces manual tasks. Features include zero-touch provisioning, comprehensive connectivity solutions, over-the-air firmware updates, and real-time telemetry and monitoring. The system supports a variety of network uplinks and features an API-first architecture for increased efficiency and easy integration with third-party systems. It provides secure and reliable connectivity across multi-carrier cellular and satellite networks, including WAN bonding, and is suitable for complex network environments and various scales—from small embedded routers to edge servers.

Device management



- Multi-tenant device management
- Centralized management across multiple providers
- Cloud-hosted
- Web-based user interface
- API for all functions
- Zero configuration device deployment
- Device inventory based on clients and groups
- Automation of deployment and configuration
- Asynchronous rollout of configurations

configuration

- UI and API-based configuration
- Configuration for individual devices and entire fleets
- Graphical network configuration
- Asynchronous configuration deployment
- Automation and integration via API possible
- Audit trail

Device Status & Observability

- Real-time GNSS location tracking
- Real-time telemetry for mobile networks and WLAN
- OpenMetrics (Prometheus) API
- Integration with Grafana Cloud and BI tools
- Support for offline logging
- Local network monitoring for connected devices (device discovery and connection status at Layer 2 and Layer 3, HTTP/S, SNMP)

Network Services

- WAN networks
 - Mobile network (2G, 3G, 4G, 5G)
 - Custom APN support
 - Multimodem support
 - Signal coverage tracking
 - SIM card management
 - Satellite connection
 - With Starlink support
 - Wi-Fi uplink
 - Uplink via stationary WLAN connections
 - WAN bonding (packet-based)
 - Bonding of any uplinks
 - Fully transparent bonding
 - Quality of Service
 - Vendor-managed bonding service

- Unwired CloudLinK for Unwired Edge Cloud OS devices
- All Bondix-supported devices

- SD-WAN/VPN
 - Support for Layer 2 and Layer 3 VPNs (OpenVPN, IPsec, ...)
 - Individual extensions via OCI containers (e.g., Tailscale, Zerotier, ...)
- LAN networks
 - Secure network isolation
 - Support for 802.1q VLAN
- Firewall
 - Eingebaute Firewall, erweiterbar über OCI-Container
- Switching
 - Verwaltung der eingebauten Switch-Funktionen unterstützter Geräte
 - Fernzugriff zur Verwaltung externer Switches über VPN, SDN, Zerotier, Tailscale
 - Monitoring und Beobachtbarkeit über APIs der Switches (z. B. SNMP, HTTP API)

Software Lifecycle Management

- Herstellerunabhängiges Betriebssystem
- Multi-Role-Betriebssystem (Router, Anwendungs-Host, Access Point)
- Automatische „Over-the-Air“ (OTA) Updates
- Langfristiger Software-Support (über 10 Jahre)
- Flexible Software-Ausrollung und Genehmigungsprozesse
- Konform mit den wichtigsten Sicherheits- und Compliance-Frameworks

Security

- Benutzer- und rollenbasierter Zugriff
- Delegiertes Mandantenmanagement für Integratoren
- Single Sign-On (OAuth)-kompatibel
- API-Schlüssel-basierter Zugriff für Integrationen
- Vollständig verschlüsselt
- Automatische Zertifikatsrotation
- Sichere Geräteaufnahme
- Secure by design

- Audit-Trail

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