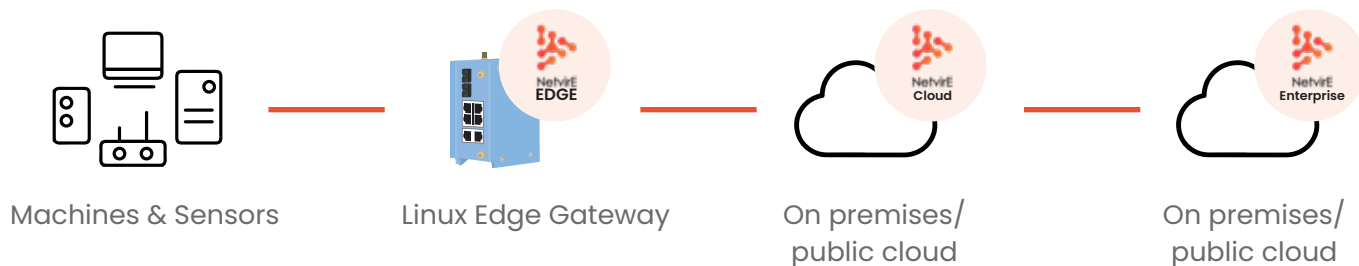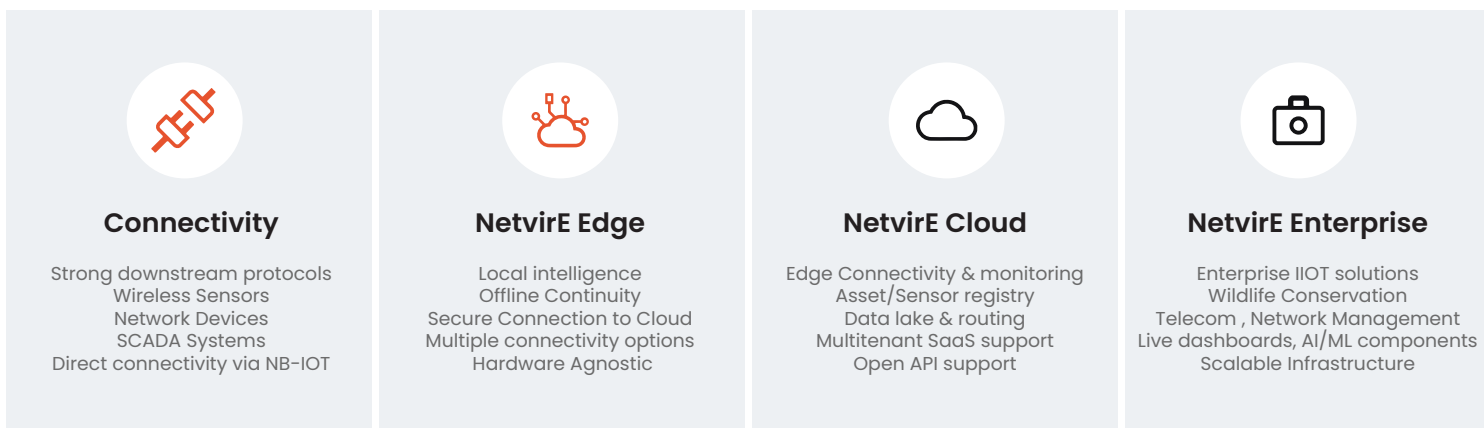# An Advanced Cloud-Native IIoT Platform

In today's dynamic digital landscape, managing numerous edge devices across multiple locations is challenging, often resulting in poor asset management and increased operational costs. With NetvirE, you get a cloud-native, GenAI-powered edge computing suite that integrates seamlessly with your network, reducing complexity and boosting operational efficiency. The NetvirE IIoT platform is an advanced cloud-native platform with intelligent edge support that enables rapid development & deployment of bespoke IoT solutions, including those that need extended battery power. NetvirE's innovative design and capabilities also simplify the process of managing a large number of assets, providing a robust solution to enhance efficiency in dynamic business landscapes.
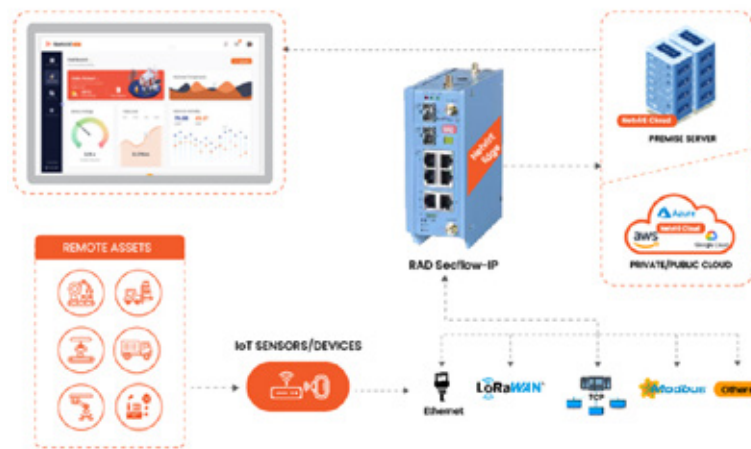
NetvirE IIOT Platform
In a Nutshell

Connectivity

Strong downstream protocols
Wireless Sensors
Network Devices
SCADA Systems
Direct connectivity via NB-IOT

NetvirE Edge

Local intelligence
Offline Continuity
Secure Connection to Cloud
Multiple connectivity options
Hardware Agnostic

NetvirE Cloud

Edge Connectivity & monitoring
Asset/Sensor registry
Data lake & routing
Multitenant SaaS support
Open API support

NetvirE Enterprise

Enterprise IIOT solutions
Wildlife Conservation
Telecom , Network Management
Live dashboards, AI/ML components
Scalable Infrastructure

EDGE	CLOUD

Machines & Sensors — Linux Edge Gateway — On premises/ public cloud — On premises/ public cloud

How Does
NetvirE Work?

NetvirE Edge collects data from a diverse range of sensors and industrial devices. Once collected, the data follows a streamlined process—initially reaching the IoT gateway device, which is integrated with NetvirE edge that aggregates raw data. NetvirE Edge provides a containerized infrastructure that enables running of multiple dockers at the edge for various applications. The data is then forwarded to the NetvirE Cloud through a rapid LTE or WAN network.

Within the NetvirE Cloud, using advanced GenAI and ML capabilities, the raw data gets meticulously processed and turned into actionable insights. These insights are then displayed on an intuitive dashboard, providing clients with a user-friendly interface for effortlessly monitoring vital parameters. But NetvirE doesn't stop there, it goes a step further and supports predictive maintenance, where the users get forecasts on possible issues, or problems, enabling proactive management across various facets of operations such as managing assets, optimizing energy consumption, and overseeing maintenance.

Highlighting its versatility, the platform encompasses a variety of connectivity protocols, including LoRaWAN, Wi-Fi, Wi-Fi HaLow, SCADA, MODBUS, Ethernet, Serial, and analog/digital interfaces. At the center of NetvirE Cloud capabilities is its support for open APIs, enabling flawless connections with digital ecosystems tying together mobile apps, IoT solutions, and SaaS platforms. Its inbuilt enterprise SaaS functionality enables it to build Enterprise solutions quickly for any verticals. The platform's resilience is evident in its capacity to adapt to diverse connectivity standards, further amplified by the integration of advanced GenAI and ML features. NetvirE can also significantly contribute to organizational sustainability goals by efficiently reducing wastage and optimizing resource utilization.

Applications Of
NetvirE

Real time big data analysis

GenAI powered predictive maintenance

Application Specific Dashboards/visualization

Powering Sustainable Operations

Remote monitoring & control

User authentication & access control

Device/sensor configuration & control

Scheduled Maintenance

NetVirE's remarkable versatility transcends industry boundaries, effortlessly finding applications in a myriad of sectors, including:

Telecommunications

Energy & Utilities

Wildlife Conservation

Maritime

Manufacturing

Smart Cities

Agriculture
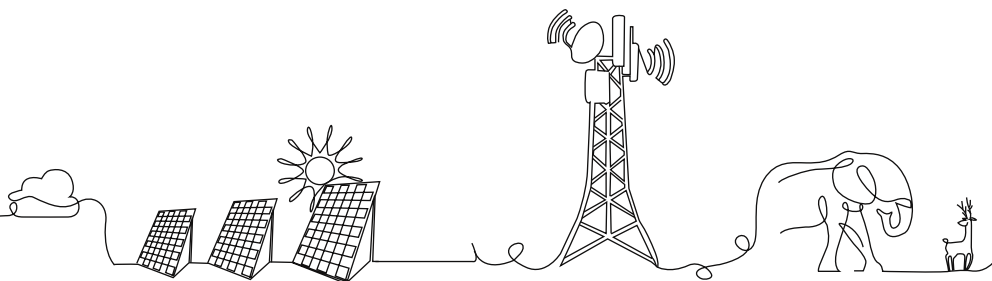
Retail

Mining and Construction

Logistics

Industry Specific
Use Cases of NetvirE

IoT for CSPs

For CSPs, NetvirE extends IoT capabilities beyond traditional network services, enabling them to offer smart IoT solutions tailored for SMBs.

- Advanced edge analytics & GenAI helps CSPs deploy apps for asset monitoring 24/7.

- Multi-connectivity protocol integration boosts performance & unlocks new revenue streams.

- CSPs can cut churn and boost loyalty, emerging as innovative, customer-focused leaders.
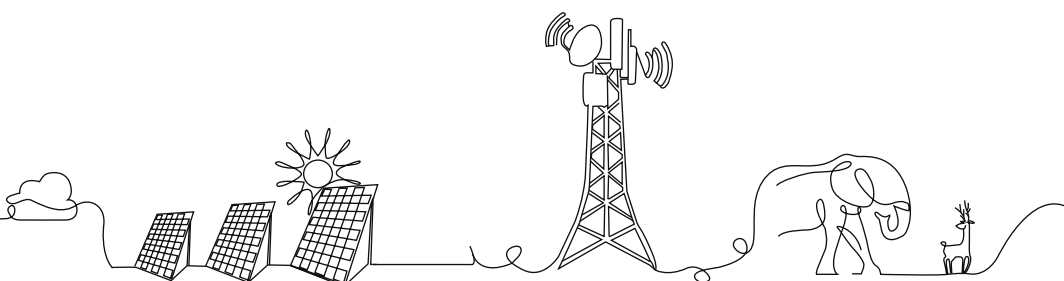
Industry Specific
Use Cases of NetvirE

Telecommunications

NetvirE empowers telecoms with real-time asset monitoring, energy optimization, and predictive maintenance, ensuring seamless operations.

- Remote asset oversight deters theft and boosts network security.

- Energy usage is optimized for cost savings and environmental benefits.

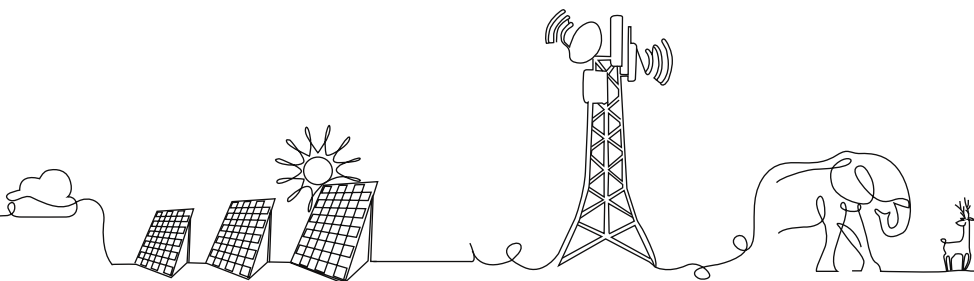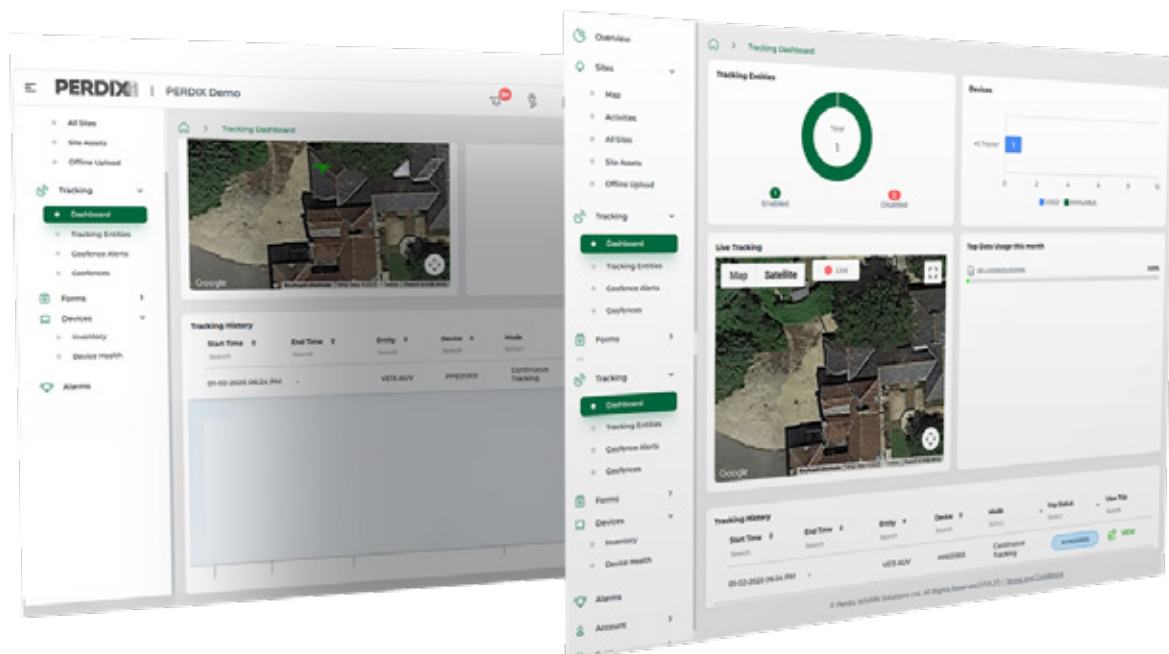- Predictive maintenance slashes downtime, enhancing reliability and performance.

Industry Specific
Use Cases of NetvirE

Wildlife Conservation

NetvirE revolutionizes wildlife conservation with real-time habitat monitoring and proactive management.

- Centralizes AI-driven monitoring to protect habitats and species.

- Enables remote anti-poaching and threat detection for wildlife safety.

- Empowers ex-situ management for breeding, rescue centers, and botanical gardens.

Industry Specific
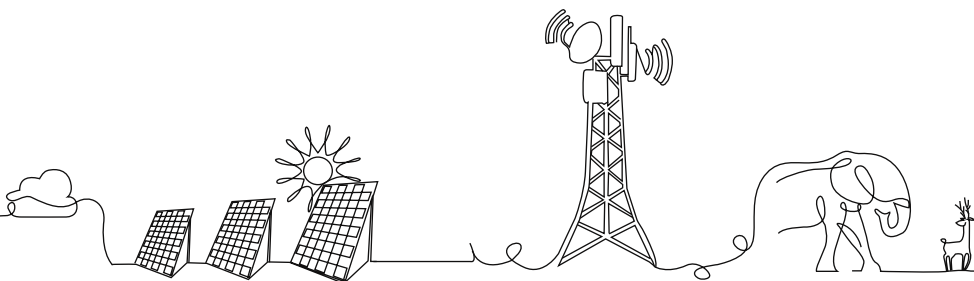# Use Cases of NetvirE

Energy and Utilities

NetvirE safeguards critical infrastructure in Energy & Utilities, cutting down waste, ensuring key compliance, and boosting sustainability.

- Monitors assets to prevent failures, leaks, and other costly operational disruptions.

- Ensures regulatory compliance with environmental standards and efficient resource usage.

- Predictive analytics help reduce energy waste, cut costs, and heighten system reliability.

Why
NetvirE?

- Inbuilt Multi-tenant SaaS Support
- Intuitive user interface for operational simplicity and a user-friendly experience
- Highly customizable for customer-specific use cases
- Easily integrate with any existing equipment to make it IoT-ready
- Rapid deployment and scalability for dynamic needs
- Cost-effective connectivity options
- Empowered by GenAI and ML capabilities for advanced analytics, predictive insights, and automation
- Enhanced data security owing to a dedicated data tunnel to the cloud
- Increases sustainability by reducing inefficiencies and optimizing operations

About
ThinkPalm

ThinkPalm is an ISO 9001:2015 and ISO 27001:2022 product engineering and software development company established in 2010. With a legacy spanning over a decade, ThinkPalm Technologies excels in delivering cutting-edge solutions in product engineering and software development, specializing in IoT, Enterprise, and Telecom sectors. Our commitment to excellence is reflected in a comprehensive range of services, including datacom/wireless development and testing, product engineering, enterprise and mobile application development, web application development, testing and QA automation, technical documentation, and AI development services. Globally catering to diverse industries, ThinkPalm is a trusted partner, offering a robust product portfolio that guarantees quality and cost-effective solutions across sectors.

Transform your business operations by seamlessly integrating NetvirE today and intelligently managing your assets, streamlining operations, and maximizing business impact.

Email: letstalk@thinkpalm.com

Website: www.thinkpalm.com/products/netvire

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