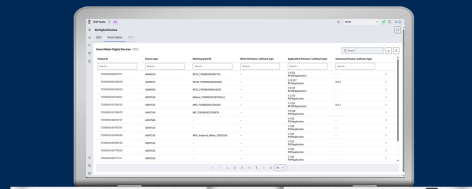


Smart Infrastructure Enabler

A holistic solution to manage smart edge devices



Remote control of large smart device infrastructures

Utilities today manage thousands (sometimes millions) **of devices** across their networks: smart meters, gateways and edge devices. **Without the right tools, maintaining, updating, and monitoring these fleets becomes complex, costly and error-prone.**

The challenges of managing and monitoring edge devices can be solved by **adopting a fleet management tool**, namely the **Gridspertise Smart Infrastructure Enabler**, which centralize management, improve visibility, and automate update and security processes. This tool provides a **complete overview of all devices**, allowing updates, security monitoring, and automated remote management.

Discover the Solution

The Smart Infrastructure Enabler solution offers a single interface to monitor, inspect, and update devices across the entire network. The solution **supports end to end device management processes** from the onboarding until the installation and app management phase, **managing the devices configuration through remote commands** sending and enhancing the devices monitoring with **dedicated metrics and dashboards**.

The solution also:

- guarantees devices security through periodic updates
- enables a secure channel with IoT Devices
- leverages standardization and retention of data, facilitating connection with vertical solutions
- displays an open detail page with real-time statistics for device and installed apps



Multi-Device and interoperable

It supports updates across heterogeneous fleets spanning metering and grid domains, guaranteeing the maximum degree of interoperability also with other vendors



Centralized dashboard

The solution is characterized by a centralized monitoring dashboard that makes the communication process with the device easier and faster



Easy monitoring of devices status

Thanks to its user-friendly interface and the centralized hub, it is straightforward to streamline navigation and monitor the connectivity status of the devices

Covered use cases

Simplifying operations by unifying monitoring, updates, and configuration across all devices.

What it enables...

Software and Firmware Management

Remote management of any software and firmware update, either in a single or massive campaign.

Device Onboarding

Automation for each step of the onboarding process, starting from device initialization in the manufacturing phase up to the download of the device software structure and device auto-configuration.

Device Configuration

Thanks to the integration with the Digital Twin and the streaming broker, it is possible to **visualize and track the different configurations on each device**.

Device Monitoring

Data are exported from the device and then stored on a persistent Database. The metrics used are CPU, RAM, DISK and Network Traffic.

...and more

Device Restore

The **device can be restored to one of the previous configurations** delivered.

Aggregate dashboard

Centralized interface that visualizes and analyzes KPIs sourced from multiple smart edge devices, enabling **real-time and holistic oversight of device health, performance, and operational efficiency**.

Business Impact



Operational process efficiency

Increases the efficiency of operational processes reducing manual interventions and on site maintenance



Data driven decision making

Thanks to an aggregate data collection, operators can identify real time smart devices resources



Enhanced reliability and performance

Configuration features built on digital twin allow automatic detection and correction of anomalies, maximizing device reliability and grid stability