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Adquio PowerTrace for Casambi

Energy metering without physical meters

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Category: ADQUIO · CONTROLLERS

DESCRIPTION

Adquio PowerTrace for Casambi is a virtual energy metering service that turns a Casambi network into an advanced energy analysis, control and reporting tool.

Estimate electricity use by luminaire, group, zone, floor, building or portfolio, without installing physical meters on every circuit. Casambi network events, including switching, dimming, scenes and states, are combined with each luminaire or driver's electrical profile to produce useful energy data.

BENEFITS

Metering without extra hardware

Get energy consumption data without installing physical meters on every luminaire, group or zone. Use existing Casambi infrastructure to reduce installation, wiring and maintenance costs.

Use by zone

Analyse use by luminaire, group, floor, building or portfolio. Identify where, when and how energy is consumed to better understand each installation.

Data for decisions

Turn technical lighting events into useful energy information. View consumption, trends, comparisons and deviations to make decisions based on real data.

Smart alerts

Detect unusual consumption, high standby loads, out-of-hours operation or unexpected behaviour in the installation.

Reporting and export

Use the data in energy reports, dashboards, internal analysis, external platforms, ESG tools, BI, ERP or corporate management systems.

Scalable and repeatable

Apply it to small installations, entire buildings or property portfolios. Replicate the same approach across offices, retail, public spaces, industry, logistics or multi-user facilities.

TYPICAL APPLICATIONS

Lighting energy management

Understand the energy consumed by Casambi lighting, beyond simply knowing whether it is on or dimmed.

Use by zone

Allocate energy use to specific areas: floors, offices, stores, corridors, car parks, shared rooms or rented spaces.

Scene optimisation

Check whether lighting scenes actually reduce consumption or can be adjusted to improve efficiency.

Anomaly detection

Identify areas with out-of-hours consumption, excessive standby use or unexpected behaviour.

Energy reports

Build a useful database for consumption reports, justifying improvements, comparing periods and documenting savings.

Multi-building management

Compare installations, buildings or zones in a single platform for an overall view of energy use.

Want to measure energy in your Casambi network without installing meters?

Contact us and we will prepare a complete technical proposal.

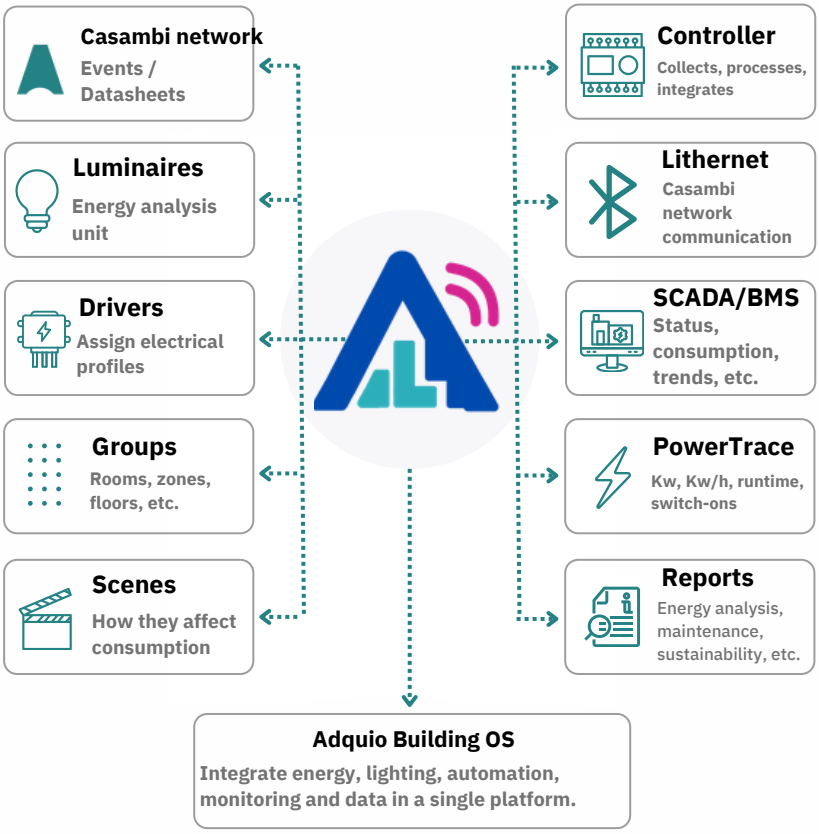
WHEN TO CHOOSE ADQUIO POWERTRACE FOR CASAMBI?

Adquio PowerTrace for Casambi is ideal when a Casambi installation needs to move from lighting control to energy management, obtaining consumption data without adding physical meters at each point.

Choose Adquio PowerTrace for Casambi when your project includes any of these scenarios:

- **When you already have a Casambi network**
  Use existing infrastructure to obtain consumption data without redesigning the installation or interrupting daily operation.
- **Metering without building work**
  Estimate energy use without installing individual analysers for each zone, avoiding wiring, electrical alterations or work on every circuit.
- **When you want to know which zone uses most energy**
  Understand use by luminaire, group, zone, floor or building, giving a much clearer picture than a general electricity bill.
- **When you need to demonstrate savings**
  Compare periods, analyse trends and demonstrate the impact of new scenes, schedules, dimming settings or switch-off policies.
- **When you manage buildings or multi-user spaces**
  Allocate use to zones, stores, floors, offices or shared areas, improving transparency and cost allocation.
- **When you want to integrate energy into Adquio Building OS**
  Turn Casambi lighting into a source of energy data in the Adquio ecosystem, connecting control, monitoring, historical data, dashboards and reporting.

TYPICAL ARCHITECTURE



SERVICE SPECIFICATIONS

Service	Adquio PowerTrace for Casambi
Type	Virtual energy metering
Core technology	Casambi network + Adquio ecosystem
Metering	By luminaire, group, zone, floor, building or portfolio
Additional hardware	No physical meters required per luminaire
Data used	Casambi events, states, dimming, scenes and electrical profiles
Main variables	Estimated power, cumulative energy use, schedules, alerts, etc.
Calibration	Optional spot-measurement calibration
Visualisation	Dashboards, SCADA, historical data, reports, BMS
Export	CSV, API and integration with external systems
Applications	Retail, offices, public buildings, industry, logistics, multi-tenant
Integration	Adquio Building OS