

# DATASHEET

## Kaa for Smart Hotel

Capabilities and Case Studies



- ✓ Smart Air Conditioning
- ✓ Smart Lighting
- ✓ Smart Asset Management

## Strengthen your key competition points with Kaa



Drive down service-related costs by resolving issues faster



Increase asset lifetime



Eliminate additional maintenance activity



Meet the demand of guests for faster, personalized service



## Kaa for Smart Air Conditioning

- ✓ Customize air conditioning to the needs of the guests
- ✓ Optimized cooling and ventilation equipment
- ✓ Predetermine Stand-by HVAC mode for an unoccupied guestroom  
Smart HVAC learns patterns and automates accordingly
- ✓ Refresh air in closed window facilities
- ✓ Track and manage humidity



## Kaa for Smart Lighting

- ✓ Switch lights on and off at optimal times and vary light levels
- ✓ Adjust the level of lighting in accordance to the sun activity
- ✓ Switch off the lights when the room is not occupied
- ✓ Matching occupancy patterns to energy use – A smart building will run leaner (and save money) when there are less people inside
- ✓ Lighting usage patterns analysis



## Kaa for Smart Asset Management

Studies estimate that of the total time spent fixing a system issue, **76 percent of the time** is spent before the fixing even begins.

- ✓ Real-time unified view of the equipment
- ✓ Optimizing equipment setpoints and setting timers
- ✓ Efficient alert management by prioritizing and structuring the numerous notifications generated by building systems
- ✓ Centralize and correlate data from building systems, corporate data warehouses, and external sources

# What you can do with Kaa IoT Platform



- ✓ Real-time event processing
- ✓ User alerting via email, SMS, voice call
- ✓ Data visualization on a secure multi-tenant cloud portal
- ✓ Anomaly detection with a flexible and user-friendly rule engine
- ✓ User customizable dashboards
- ✓ BI integration

## Kaa ecosystem

### Data ingestion



### Cloud support



### DB support



Kaa is compatible with virtually **any type of connected device or microchip** on the market and supports a number of popular data processing and warehousing systems out of the box.



### Hardware

UDP

TCP

CoAP

HTTP

SSL

MQTT

Web sockets

Custom



# PlumTech Engineering Services

- ✓ Developing the product end-to-end
- ✓ Developing particular features or modules
- ✓ Hardware integration
- ✓ Firmware OS development
- ✓ Custom data processing and analytics
- ✓ Third-party software integration
- ✓ DSP algorithms
- ✓ Machine learning
- ✓ Quality assurance
- ✓ System deployment
- ✓ System upgrades

We manage **the entire engineering cycle** - from the initial design to ground-up implementation, testing automation, and production rollout.



## Drawbacks of using PaaS-type IoT platforms

- ✗ Rely on someone else's cloud
- ✗ Lack of control over data security
- ✗ Renting the technology, not owning it
- ✗ Inefficient interoperability of the systems (HVAC with lighting) due to proprietary firmwares and protocols
- ✗ New features, customization and new hardware integration are expensive and require involvement of the platform's vendor

**Get full ownership over your IoT solution's source code with PlumTech.**