PLUMTECH

Air conditioner

Window

Lighting

Thermostat

Door

Irrigation

DATASHEET | Kaa for Consumer Electronics
Capabilities and Case Studies

Flexible, hardware-agnostic Kaa IoT Platform

Kaa Private IoT Cloud for enterprise

Full-cycle IoT development services

Over 100 engineers

About PlumTech

PlumTech provides software development services to create solutions for private enterprises and government agencies. PlumTech is an official system integrator of Kaa, a leading enterprise-grade IoT platform. Using Kaa's comprehensive set of IoT features and flexible cloud deployment, we implement end-to-end IoT solutions and smart products for a diverse line of industries.

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Kaa for Consumer Electronics

Kaa is an open-source IoT middleware platform for managing, collecting, analyzing, and acting on every aspect of communications between connected devices. Kaa offers a range of pluggable features that allow building killer apps for consumer products in days instead of weeks.

Out of the box, Kaa is compatible with virtually any modern consumer product or microchip — smart TVs, smart home appliances, cameras, HVAC systems, wearables, and microcomputer boards. Taking advantage of highly programmable and feature-rich interoperability enabled by Kaa, consumer IoT products will allow for hassle-free remote monitoring and control, event-driven operations, user context awareness, flexible firmware management, and even autonomous cross-device collaboration.

What you can do with Kaa

Connect devices to the cloud

Predictive maintenance

Remote provisioning and firmware distribution

Remote control

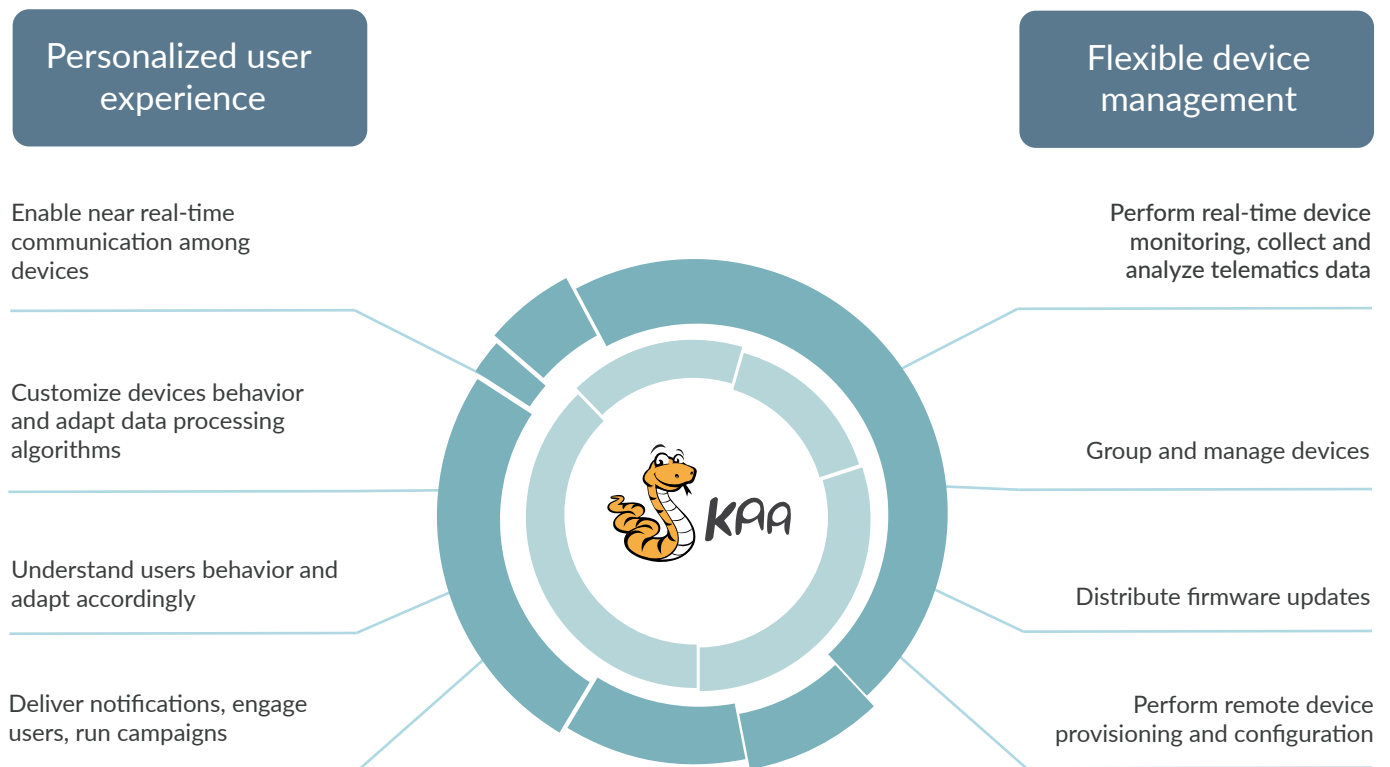Monitor device performance

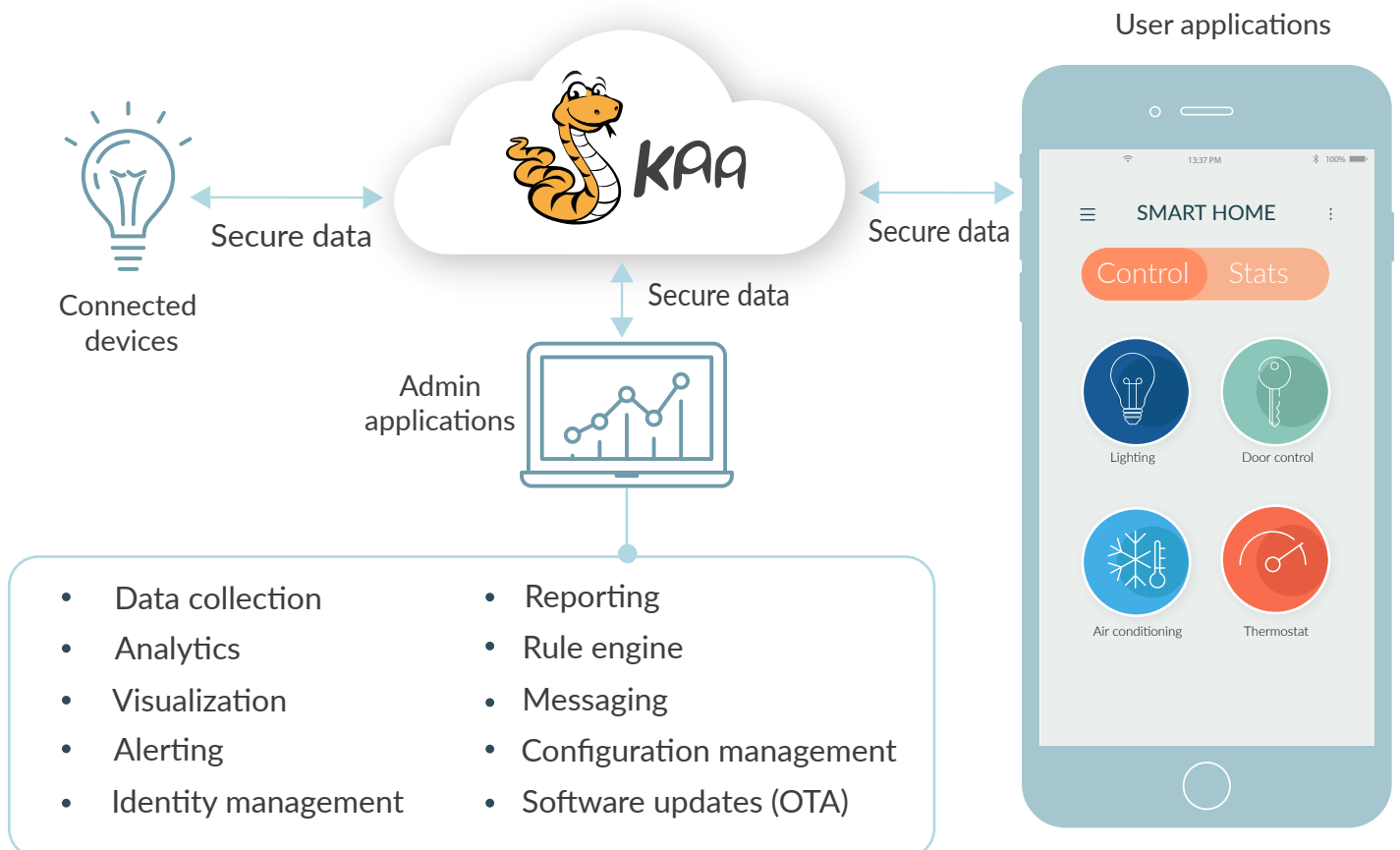Device profile management and inventory

Enforce device and user policies

Collect user experience and QoS data

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How to create smarter consumer electronics with Kaa

Personalized user experience

Enable near real-time communication among devices

Customize devices behavior and adapt data processing algorithms

Understand users behavior and adapt accordingly

Deliver notifications, engage users, run campaigns

Flexible device management

Perform real-time device monitoring, collect and analyze telematics data

Group and manage devices

Distribute firmware updates

Perform remote device provisioning and configuration

Enterprise-grade cloud enablement for your smart home products with Kaa

User applications

Connected devices

Secure data

Secure data

Secure data

Admin applications

SMART HOME

Control | Stats

Lighting

Door control

Air conditioning

Thermostat

- Data collection
- Analytics
- Visualization
- Alerting
- Identity management

- Reporting
- Rule engine
- Messaging
- Configuration management
- Software updates (OTA)

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Case study   01

Predictive maintenance, remote configuration for home power battery

Customer   US-based consumer electronics & smart energy startup

Problem   Remote service capability for the company's home power battery

Solution   Scalable Kaa-based solution for enabling secure bidirectional communication
                between connected home batteries and the cloud

Connecting the product to the cloud

Predictive maintenance

Collecting performance data

Firmware management

Case study   02

Audio management system

Customer   EU-based consumer electronics manufacturer

Problem   The company encountered challenge to perform remote firmware updates
                and gather performance data from a line of audio management devices

Solution   Kaa has enabled the company's devices with a range of cloud capabilities
                for better product positioning

Predictive maintenance

Over-the-air firmware updates

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Remote monitoring

Topic-based notifications

Case study   03

Sensor data collection and analytics for a prenatal care belt

Customer   Vendor of health & wellness wearable solutions

Problem   Implementation of a wearable prenatal care monitoring system

Solution   Full-stack IoT system to monitor and analyze mother and fetus health parameters in real time, using a belt fitted with various sensors

Collect health data in real time

Transmit patient data to a private IoT cloud

Enable mobile alerts

Kaa-powered web dashboard

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Kaa vs. PaaS: Open-source vs. commercial IoT platforms

	Kaa IoT Platform	IoT PaaS
Technology ownership	Technology ownership of your IoT solution	Proprietary, limited code control
Cost of ownership	Services + support	Usage fees + services + support
New features	Absolute control (open-source based)	Limited control, slow response
Deployment	Any: on-premises, cloud, hosted or mixed	Third party cloud deployment
3rd party integrations	Open APIs, technology-independent	Vendor-dependent
Support and services	Dedicated team	Expensive, shared, on-demand resources

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Full-cycle IoT development services

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