

Enabling secure home IoT data operations with Livisi and Intertrust



Industry

Smart home IoT

Location

Germany, with worldwide scope

Solution

Intertrust Platform™

Customer profile

Innogy, now part of E.ON, is a global pioneer in bringing smart home technologies to customers. Starting in 2010 with smart thermostats for household energy management, they now have a large portfolio of over one million devices and sensors connected in 60,000 households, supporting over 300,000 SmartHome controllers and collecting 150GB of data a day. They started a B2B business in 2018, offering device connectivity (e.g., for gateways, sensors), and a data platform backed to leading electronic retailers, device manufacturers, distributors, insurance companies, and others.

A key feature of this data platform is Intertrust's IoT data store and governance technologies. These technologies support data interoperability between datasets from devices from multiple retail and wholesale channels, as well as manufacturers. By securely combining these datasets, Intertrust has enabled Livisi to develop new cross-industry smart services.

The challenge

1. Smart, connected products found in a home are made by multiple, often competing vendors, with varying formats, protocols, mobile apps, and backend services. Homeowners are challenged to use multiple apps and devices, with no consolidation or a single, reliable, easy-to-use app that combines functionality from multiple home IoT devices or services.
2. Service or hardware capabilities offered by separate OEMs, complicating ease of use and raising costs.
3. Securing customer data across industries is difficult when developing tailor-made digital services.
4. Limited ability to scale IoT business models.



The Intertrust Platform facilitates secure data exchanges and collaboration between businesses and partners, allowing them to secure, govern, and monetize their data, across any cloud service or infrastructure.

Livisi SmartHome

Open IoT Infrastructure

Livisi provides a hardware agnostic, cross-industry IoT infrastructure. The open ecosystem allows all network partners to build and protect end customer interfaces.

Trustful Partnerships

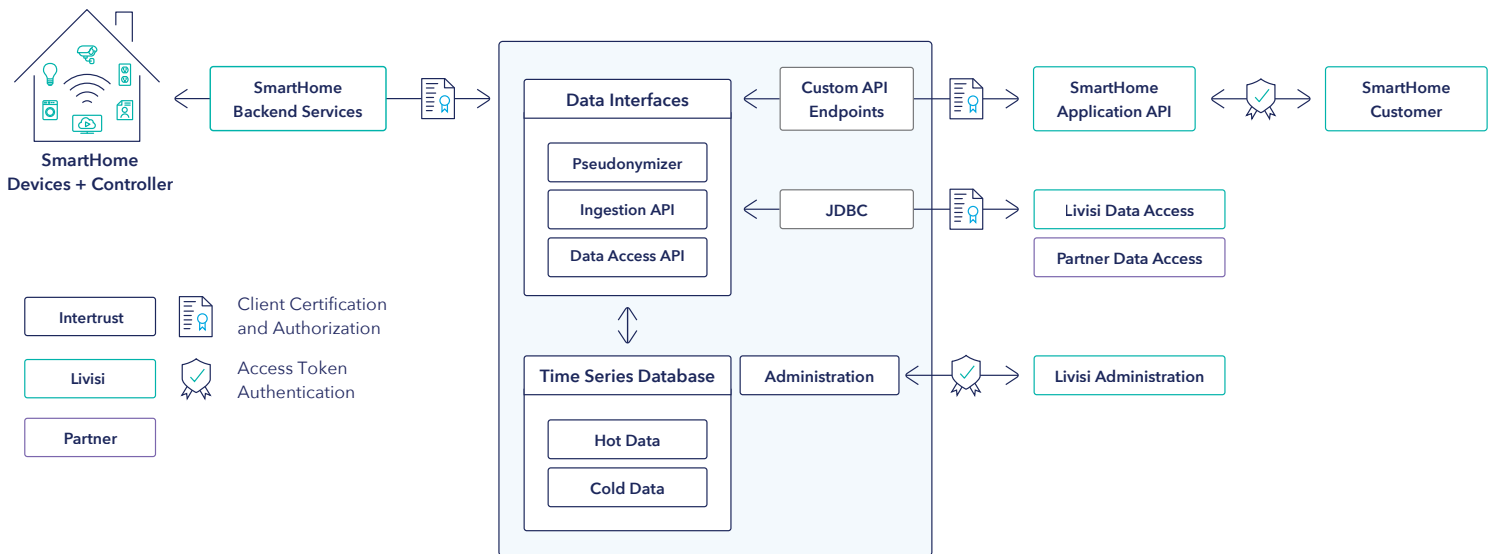
Livisi enables all partners to participate on the platform, realizing beneficial network effects for ecosystem players and customers alike.

Data Privacy

Livisi's state-of-the-art technology is regularly tested, verified, and compliant with GDPR.

European Values

Livisi's business model is an enabler for the European value system. Data sovereignty remains with the user and therefore ensures transparency over its usage.



The Intertrust Platform leverages container orchestration technologies such as Kubernetes and Docker to make deployments cloud-agnostic.

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Identity and access management

Device and user identity, authentication, and authorization; maintains platform objects and their relationships.



Secure execution environment

Secure network-isolatable environments for workload execution and controlled, interactive data exploration.



Data virtualization

Data object definitions, permissions, restrictions. Provides data interfaces, manages DBs and virtualized datasets.



Time series database

Scalable, efficient, high performance database designed for time series data.



The solution

Livisi used the Intertrust Platform to help create a trusted IoT data exchange ecosystem.

With Intertrust, Livisi was able to:

1. Ingest and store device event data throughout the customer lifetime.
2. Pseudonymize and encrypt personal data at rest.
3. Provide partners with governed access to device data while ensuring customer consent.
4. Securely run third-party services within a governed execution environment.
5. Ensure all actions are logged and auditable.

The result

Intertrust is helping Livisi implement a hardware-agnostic, open standards-based SmartHome IoT platform for more than 60,000 customers. Using secure data virtualization and an ability to operate using industry standard communication protocols, it enriched Livisi's SmartHome Platform by:

1. Providing a performant and scalable database.
2. Providing a layer of security and governance across all IoT data.
3. Supporting the development and deployment of other data-driven services.

intertrust®

Building trust for
the connected world.

Learn more at: intertrust.com/solutions/connected-home/
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