



SNCF Smart Train Station: a representative IoT use case

Public services use IoT to improve the customer's journey in the train station: Kuzzle IoT provides real-time information and alerts which enable technical teams to intervene as soon as a malfunction is detected.

Connect and manage existing devices with Kuzzle which is capable of collecting, ingesting and processing large volumes of heterogeneous data in real time.

- Controlling remotely and in real-time the station's different lighting zones: with the possibility of changing the light intensity in one click, directly from the mobile application developed by Kuzzle.
- Monitoring in real time the elevators and escalators: generating real-time alerts when something malfunctions.
- Measuring the air quality in the station.
- Measuring on site energy production and consumption from photovoltaic panels on the roof which supplies electricity to the charging stations of electric vehicles.



As an example Kuzzle is capable of measuring the amount of electricity produced in the station giving real-time results in Kwh. The results are displayed on a mobile/web application and can be analysed by using the latest open source analytics tools. The dashboard shows the results including energy production and consumption, to gain in reactivity on the handling of anomalies and to reduce energy costs.

What's next?

Tomorrow, the reporting of information on connected and intelligent devices allows predefined predictive maintenance policies to be implemented as soon as a change of state is identified by the sensors.

THIS USE CASE IS REPRESENTATIVE OF THE ROLE OF IOT IN SMART BUILDINGS AND COULD BE TRANSPOSED TO ANY INTELLIGENT BUILDING: SHOPPING CENTRES, AIRPORTS, OFFICE BUILDINGS, ETC.

Kuzzle demonstrates that digital transformation is not only for new buildings, but can also be applied to existing buildings. The renovation of existing buildings is a major step towards a more sustainable economy.



Kuzzle is an open-source backend solution including a scalable server, a multi-protocol API and a set of plugins allowing the use of advanced features such as real-time pub/sub, fast search or geofencing. It supports a large number of programming languages thanks to the different SDK. www.kuzzle.io

SNCF Gares & Connexions brings together various skills for a single objective: to renovate and develop the network's 2,600 railway stations.