

Funkwerk Mobility Platform: Application from SonoBeacon

UTILISATION MANAGEMENT IN PUBLIC TRANSPORT



The efficient utilisation of vehicles in public transport is a major challenge for operators to reduce costs and CO₂ on the one hand and to increase the passenger experience on the other.

EFFICIENT VEHICLE UTILISATION

The App-independent Crowd Sensing and Crowd Management solution from Funkwerk and SonoBeacon generates location-based real-time passenger data with specially developed software and sensors, visualises it in a cloud platform and thus creates the basis for efficient capacity utilisation management.

Funkwerk and SonoBeacon also provide the interface to display this information to customers via digital media.

HIGHLIGHTS

- » App-independent solution
- » Visualisation of passenger flows
- » Passenger volume tracking
- » Predictive Analytics
- » easy extensibility of other services
- » GDPR compliant

TECHNICAL DATA

SENSOR

Nominal voltage	24 V to 110 V DC (tolerances according to EN 50155)
Dielectric strength	according to DIN EN 50155
typical power consumption	< 20 W
Operating system	Linux
Software	Python, NodeJS

PORTAL

Installation	Cloud (Amazon Web Services) or on-premises
Operating system	Linux
Databases	MySQL (MariaDB, PostgreSQL), MongoDB
Software	PHP
Middleware	MQTT (ActiveMQ)