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Sensoneo presents an innovative solution for the access management to waste bins

- The solution developed by Sensoneo – the leading provider of smart waste management technologies - provides municipalities and waste collectors with a **handy tool to manage access to (semi-)underground bins and large-capacity containers**.
- Besides ensuring that **only authorized citizens can use the bins**, the solution also **facilitates the implementation of Pay-as-you-throw (PAYT) within apartment houses** and high-rise buildings.
- **Long-term functionality** in the field without the need for any intervention - the solution is powered by batteries that **guarantee up to 100.000 lid openings and uses NBloT and/or Cat-M** network for data transfer.
- New users can be added remotely, and they immediately get access to selected bins or stands.

The anonymity of housing estates

“Complaints about “waste tourists” within housing estates areas who use the availability of containers to dump their waste have been very frequent. We want to make sure that our citizens pay only for the waste they generate, and that is why we initiated proper recording and tracking of containers’ usage,” said Mrs. Beniakova, the Head of Dubnica’s environment department, where they successfully deployed the solution.

Public availability of waste bins does not always mean the bins are available for everyone. However, fencing or locking bins in cages is not always an option – especially if the visual aspect is important for the customer. Sensoneo’s Bin Access Management solution does not disturb the visual of the waste containers or their surroundings.

Control who accesses the waste containers

The solution uses a resilient yet subtle electronic lock that is mounted into the containers to secure the opening of the lid by scanning a digital key – chip or a card. Chip/card accesses are allocated remotely via an online platform, where an authorized employee updates them in real-time. A household can gain access to multiple containers or stands with a single chip.

Sensoneo solution uses NBloT and/or Cat-M network for data transfer. The solution can be easily integrated via API into current customers' systems. Otherwise, customers are welcome to use the solution’s own platform.

“The demand for a reliable solution for managing access to containers has been a very frequent request of our customers. Despite we considered the market as sufficient in terms of the offer, the insights clearly proved there is an opportunity for an easy-to-deploy versatile solution that would answer the question of the gradual shutdown of the GPRS networks,” explains the motivation for development Martin Basila, Sensoneo’s CEO.

The solution is primarily dedicated to (semi-)underground bins; however, it can be easily customized to other types of bins and containers thanks to a variable mounting kit.

Real-time overview of the access log

Besides access management, the online platform also provides an overview of bins and stands openings. As a result, the city has accurate information on how many times a particular household has opened the container within a selected period and obtains a reliable basis for the potential deployment of PAYT.

Remote digital management of access to bins also represents a great opportunity for collection companies, especially if they manage recyclables and valuable commodities. Access to selected containers can be limited to selected drivers and workers. As the platform offers an instant online overview of who and when accessed bins, collection companies can prevent potential fraud and misuse.

About Sensoneo:

Sensoneo develops and provides enterprise-grade smart waste management solutions that support the digital transformation of waste management to achieve efficiency, transparency, and sustainability.

Sensoneo is redefining the way waste is managed. Through its unique smart waste management technology, Sensoneo helps to cope with the biggest challenges in today’s world of waste management – lack of efficiency and transparency. As an outcome, the solution enables the customers to achieve 30 – 63% reduction of waste collection routes and 97% accuracy on actual waste production.

Sensoneo's smart waste management has attracted cities and businesses around the world, and the solution has been installed in more than 60 countries on 5 continents.

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