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Parking Marleno v1., 19.06.2024

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Preliminary notes

STA is the responsible, with the Municipality of Marleno, of a park&ride (P&R) infrastructure. The technological supplier is Teratronik.

Data transmission modalities

For this kind of installation, it has been decided that it would have been too expensive to have a specific back-end collecting the real-time information from the parking area and then delivering the data to the Open Data Hub in a PULL mode, like in the typical configuration we typically have.

We therefore decided that in this case the parking area transmits a push of thir real-time data directly to the Open Data Hub, namely to <https://push.api.dev.testingmachine.eu/push/sta/parking-marleno> (testing environment). Proper credentials have been properly communicated.

The data message looks like the following:

```
{"id":"teratronik_test", "name_IT":"Teratronik Test", "name_DE":"Teratronik Test",  
"latitude":0.0, "longitude":0.0, "capacity":10, "measurements":[{"timestamp":"2024-  
06-14 02:25:15", "availability":3}] }
```

Specification of the modalities of integration in the Open Data Hub

PARKING STATION

As far as the mapping of the static metadata is concerned, following mapping has to be considered. The fields marked as METADATA have to be stored in the corresponding metadata table.

Data stream fields	Open Data Hub parameters
name_DE	METADATA
name_IT	name
capacity	METADATA
latitude, longitude	Position

Table 1: ParkingStationmetadata proposed mapping.

For the other fields, following values have to be considered:

- **origin:** to be set as “**STA**”
- **stationcode:** to be set as “**parking-sta-marlengo**”
- **stationtype:** to be set as “**ParkingStation**”

DATA TYPES AND MEASUREMENTS

The data stream provides a field named “availability”, which corresponds to the existing data type “**free**”. This value has to be stored as measurement, like the other ParkingStations.