MEMO

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| From: | Aivars |
| Cc: |  |
| Date: | 23.10.2020 |
| Re: | Scooter Database Design |

# Info

This document describes the scooter charger registering process and the concurrent dataflows.

## Scooter charger identification

### Charger identification structure

Scooter chargers are identified by **three** identifiers:

**Graphical user interface

Description automatically generated with medium confidence**

#### External identifier A “Serial Number”

Serial Number is used in manufacturing and sales process for machine and human reading to recognise the manufactured part.

This identifier is visible on the scooter charger and is in format:

LAAAAACCX, where

* CC – factory (country) code of manufacturing
* AA - Latin letters A-Z or numbers 0-9
* X – checksum using CODE 128 (ISO/IEC 15417-2007)

#### External identifier B:

External identifier B is used for database systems where the number of the scooter has to be publicly or semipublicly linked to **external** databases.

External identifier B is a random number in UUID version 4 format (123e4567-e89b-12d3-a456-426614174000)

<https://en.wikipedia.org/wiki/Universally_unique_identifier>

#### Internal identifier:

Internal identifier is used for database systems in **internal** databases for security purposes and is in format [a-Z, 0-1]{10}. The number is randomly generated.

### Table Description automatically generatedCharger Models

The model number is publicly available and is used to describe what the scooter part is.

The internal scm\_Model\_ID is integer used in database systems.

scm\_Type\_ID describes what type the part is.

It is of enum type, describing TX – transmitter, RX – receiver. It is internal, and is used for programming purposes.

scm\_ModelCode is public and is used as Part ID in product catalogue.

the scm\_ModelCode is of format

*LSC-TP-CC-1234-XX*, where:

LSC = Lesla Scooter

TP = Rx (for Receiver) or Tx (for Transmitter)

CC = Factory (country) code, e.g. LV for Latvia

1234 = Product **identifier**, according to a catalog

XX = Product version, if there are time modifications.

scm\_GS1\_Barcode is public and is used as a product barcode in product catalogue according to GS1 barcode classification. It is a 13-digit code used for sales identification, issued by <https://gs1lv.org/kljut_par_biedru> .

scm\_LonglName is public and is used to describe the product. (e.g. *“RX-365-150”).*

scm\_Description is public and is used to describe the product. (e.g. *“Xiomi 365 compatible receiver plate, 150W”).*