Waybler

Rethinking charging

Decalaration of conformity Connect/Eichrecht

2024-06-05

Overview

An Eichrecht conformant charger sends signed measurements to the server for further usage such as billing. Signed measurements means that the measurements are stored in a package and there is a checksum calculated for that package. These packages shall be possible for the user to retrieve from us. The user shall be able to verify the authenticity of the downloaded package using a third party, publicly available, software. Using the software together with a public encryption key available at the charger, a user will be able to verify that the downloaded package is in fact the package that was sent from the charger to be used by the backend to do the billing. The fact that the package is signed does not mean that it is encrypted in any way. Most of the signed package is a string in OCMF format that tells the backend system what it needs to be able to bill the user, and present different kinds of feedback.

The box shall be able to receive and store the public key. ✓

The backend shall be able to receive signed data values. ✓

The signed values shall be stored in the database. ✓

The signed value shall be decoded and used in the billing. ✓

The billing system shall know that a signed value exists. ✓

It shall be possible to download signed data. ✓

Downloaded signed data shall be possible to verify. ✓

Test report

These tests lets you follow the transaction with Id 3310241. A transaction of size 128Wh.These tests has been conducted on a system with Chargehub commit 3766f9a8c45c492398f76c4dfed15930bfbec00c. Customer commit 897532fc8d72a0345be53d7b7a53e2f94f2c1116.

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By: Peter Magnusson

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Kurt Högnelid, CEO Waybler