SMETS

Short for *Smart Metering Equipment Technical Specifications*, SMETS exists in a few variants: SMETS1, SMETS1+, and SMETS2.

Glossary

SMETS1

The first variant of smart meters, SMETS1 is notable for not being as interoperable between energy providers as other variants. SMETS1 meters can be upgraded to SMETS1+.

SMETS1+

A variant of SMETS1 that back-ports the interoperability features from SMETS2, which brings enrolment into the DCC (Data Communications Company)

SMETS2

SMETS, but interoperable. Seems to use a communications service (3G?) that is provider-agnostic.

Octopus Energy

We just switched from British Gas (who said that maybe in a few months they might fix our SMETS1 meter, which had gone offline and required top-up codes to be entered manually on the unit itself), to Octopus Energy (who sent an engineer out to replace our SMETS1 meter with a SMETS2 one as soon as we told them it was still in prepaid mode and was about to cut our energy off). Octopus provided a new IHD, and also provide an API with half-hourly energy usage statistics. The IHD supports WiFi, and connects to the Chameleon Cloud service over MQTT-TLS (port 8883).

Crimes

My first thought here was to just redirect the DNS query for the MQTT server to my own, however when I did that, the IHD failed to connect. Turns out: for once, an embedded device that uses encrypted connectivity, actually verifies the CA certificate of what it's connecting to.

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Last update: **2022/09/02 12:41**