

## # 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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