

MHHS SERVICES: SUMMARY GUIDE

The Unmetered Supply Data Service (UMSDS)

The Unmetered Supplies Data Service (UMSDS) is responsible for calculating Settlement Period (SP) level consumption data for unmetered equipment, for example street lights and traffic signals. The UMSDS operates software approved by the BSC known as an Equivalent Meter (EM). The EM uses information on the amount of energy drawn by different types of unmetered equipment and the duration that energy is supplied. The EM can also receive information from other software which provides more dynamic data on the amount of energy and duration the equipment is switched on. Currently this is from [Central Management Systems](#) that control street lighting, telecommunications equipment and in future might include Electric Vehicle charging points. Other inputs to the EM can be from Photo-Electric Control Unit (PECU) arrays, which contain a number of photo-electric cells. PECU arrays provide energy duration information re 'on/off' times for each cell in the array, and are located around the country to reflect the local switching times due to weather and location. The UMSDS uses Market Standing data for Charge Codes and Switch Regimes in the calculation of SP level consumption data.

What are Charge Codes and Switch Regimes?

A Charge Code is used to look up the power value (known as Circuit Watts) associated with the equipment and used to calculate the consumption.

The Charge Code itself also contains information in its structure. The first two digits (first three digits for miscellaneous equipment) provide an indication of the type of equipment, for instance whether it is a light-emitting diode (LED) street light or a high pressure sodium lamp.

Switch Regimes determine the operating hours for equipment. This information together with the power information obtained from the Charge Code allows Settlement Period Level Consumption Data (kWh) to be calculated.

The detailed structures and processes are explained in the [Operational Information Document \(OID\)](#).

What is an Unmetered Supplies Summary Inventory or Control file?

The Customer who owns/operates the unmetered equipment provides a Detailed Inventory to the Unmetered Supplies Operator (UMSO), the UMSO validates this information and then provides a Control file for the CMS equipment and a Summary Inventory for the non-CMS controlled equipment to the UMSDS. The UMSDS will validate the Summary Inventory and the Control file against the Market Standing data which specifies the valid Charge Codes, Switch Regimes and their combinations.

How does the UMSDS calculate the Settlement Period Level Consumption data?

The UMSDS uses the EM to calculate SP level consumption data. It does this by inputting the Charge Code and Switch Regime information from the Summary Inventory and/or Control file, together with any dynamic information received from CMS or PECU arrays. The calculated SP level consumption data is provided to the Aggregation Service (AGS).

What are the timescales?

The service will operate to meet the agreed settlement timetable. Dynamic information from CMS or PECU arrays will normally be accessed on the following calendar day. The Settlement Period Level Consumption data will be revised from time to time as updated information (e.g. Inventory data, CMS or PECU data) is received.

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Service Summary:

This service will be responsible for:

- Receiving and validating the Summary Inventory and/or Control files from the relevant UMSO;
- Accessing other dynamic information relating to the operation of Unmetered Supplies;
- Accessing Market Standing Data relating to Unmetered Supplies;
- Calculating Settlement Period Level consumption data for Unmetered Supplies according to a defined schedule; and
- Providing access to calculated Settlement Period Level consumption data to the Aggregation Service.