

7.5.5 Manage Load Control

7.5.5.1 Introduction

This process area describes how, for SMETS2+ Devices, Suppliers can manage Auxiliary Load Control Switches (ALCS) (embedded in the Electricity Smart Meter), ~~and~~ HCALCS (HAN controlled) ~~and~~ SAPC (Standalone Auxiliary Proportional Controller) via the DCC. ALCS, ~~and~~ HCALCS ~~and~~ SAPC configuration and management is important in effective management of the supply of electricity to a premises. While there are no obligations on Import Suppliers to configure and operate ALCS, ~~and~~ HCALCS ~~and~~ SAPC devices, Import Suppliers may have commercial incentives to do so.

The Service Requests described in this section are not available to SMETS1 Devices.

7.5.5.2 Scope

This process area includes Manage Load Control.

This process area involves but does not specifically describe Configure Device. This process is described in more detail in section 7.3.1.6.3 of the BAD.

7.5.5.3 Inputs

The Service Requests described as inputs below are not available to SMETS1 Devices.

- 'Update Device Configuration (Auxiliary Load Control Description)' Service Request (SRV 6.14.1)
- 'Update Device Configuration (Auxiliary Load Control Scheduler)' Service Request (SRV 6.14.2)
- 'Update Device Configuration (Auxiliary Controller Scheduler)' Service Request (SRV 6.14.3)
- 'Activate Auxiliary Load' Service Request (SRV 7.5)
- 'Deactivate Auxiliary Load' Service Request (SRV 7.6)
- 'Reset Auxiliary Load' Service Request (SRV 7.8)
- 'Add Auxiliary Load to Boost Button' Service Request (SRV 7.9)
- 'Remove Auxiliary Load from Boost Button' Service Request (SRV 7.10)

7.5.5.4 Actors

- Import Supplier
- DCC
- HCALCS

This document has a Classification of **Clear**

- ALCS
- **SAPC**

7.5.5.5 Process Description

7.5.5.5.1 Configure Device – Set Randomised Offset Limit

The Import Supplier composes a 'Set Randomised Offset Limit' Service Request (SRV 7.12) and sends it to the DCC. The process is described in section 7.3.1.6.3 of the BAD. Note that GBCS v2.0 mandates the Electricity Smart Meter to have the Randomisation Offset Limit pre-configured to 600 seconds at manufacturing.

7.5.5.5.2 Manage Load Control

To operate ALCS / HCALCS / **SAPC** via the DCC, the Import Supplier has a number of Service Requests available to it to access functionalities on ALCS / HCALCS / **SAPC** via the DCC.

The list of Manage Load Control Service Requests is below.

Table 10. Manage Load Control Service Requests

SRV	Service Request Name	Command Reference	Eligible User Roles	Target Device	Critical / Non-Critical	Applicable to SMETS1 Devices
7.9	Add Auxiliary Load to Boost Button	ECS62	Import Supplier	Electricity Smart Meter	Non-Critical	No
7.10	Remove Auxiliary Load from Boost Button	ECS62	Import Supplier	Electricity Smart Meter	Non-Critical	No
6.14.1	Update Device Configuration (Auxiliary Load Control Description)	ECS46a	Import Supplier	Electricity Smart Meter	Critical	No
6.14.2	Set Configurations for load control in Electricity Smart Meter (excluding HC ALCS and ALCS Labels)	ECS46c	Import Supplier	Electricity Smart Meter	Critical	No
6.14.3	Update Device Configuration (Auxiliary Controller Scheduler)	ECS46d	Import Supplier	Electricity Smart Meter	Critical	No
7.5	Activate Auxiliary Load	ECS47	Import Supplier	Electricity Smart Meter	Critical	No
7.6	Deactivate Auxiliary Load	ECS47	Import Supplier	Electricity Smart Meter	Critical	No
7.8	Reset Auxiliary Load	ESC47	Import Supplier	Electricity Smart Meter	Critical	No
7.9	Add Auxiliary Load To Boost Button	ECS62	Import Supplier	Electricity Smart Meter	Non-Critical	No
7.10	Remove Auxiliary Load From Boost Button	ECS62	Import Supplier	Electricity Smart Meter	Non-Critical	No
7.13	Set Auxiliary Controller State	ECS47a	Import Supplier	Electricity Smart Meter	Critical	No
7.14	Read Auxiliary Controller Configuration Data	ECS61d	Import Supplier Electricity Distributor	Electricity Smart Meter	Non-Critical	No

SRV	Service Request Name	Command Reference	Eligible User Roles	Target Device	Critical / Non-Critical	Applicable to SMETS1 Devices
			Other User			
7.15	Read Auxiliary Controller Operational Data	ECS61e	Import Supplier Electricity Distributor Other User	Electricity Smart Meter	Non-Critical	No

The Import Supplier composes a Service Request and sends it to the DCC.

The DCC receives the Service Request, completes Critical / Non-Critical Service Request processing and sends a Command to the Electricity Smart Meter. The Electricity Smart Meter receives the Command, executes it and sends a Response the DCC.

The DCC receives the Response and sends a Service Response to the Import Supplier.

Once the ALCS Calendar has been configured (using SRV 6.14.2 for devices prior to GBCS v4.0 or SRV 6.14.3 for devices on GBCS v4.0), the Electricity Smart Meter monitors the ALCS Calendar. At the scheduled times, the Electricity Smart Meter checks that Supply is Enabled, applies the Randomised Offset, and then switches the ALCS or HCALCS on or off by setting the switch to closed or open.

For ALCS, this is achieved by a machine-to-machine instruction. For HCALCS this is achieved by a HAN Command.

The Import Supplier may choose to issue Commands which have the effect of overriding the switch schedule, and reverting to it at a later point in time. This is achieved by Activating, Deactivating, or Resetting the Auxiliary Load.

7.5.5.1 Associated Process Areas

#	Process Areas
7.8.4	Service Request Processing