**Smart Metering Implementation Programme**

**Smart Meter Equipment Technical Specifications 2 (SMETS2)**

**Version 5.0 Draft 3: Release Note**

**31 January 2019**

Release Note

This release note accompanies the SMETS2 v5.0 Draft 3[[1]](#footnote-1). It describes the principal changes and updates made to the SMETS2 v4.2 designated on 4 July 2019. The recent revision and version history of SMETS is also included.

***Summary of main changes***

The sections of SMETS listed below incorporate the principal changes arising from IRP559, IRP560, IRP598, CRP585 and CRP602. The table below shows the Sections of SMETS2 v3.1 that have been updated by the RPs indicated.

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| ***Table of Section Changes*** |

| **Section** | **Changes** |
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| Table of Content | To note: Changes in this Section include the referencing of Section 9 changes made following first consultation on v5.0 Draft 1: Part A, B and C re-referenced as G1, G2 and G3 respectively |
| 3. Introduction | Changes include:  Addition of description of new Section 9 ‘Standalone Auxiliary Load Control Switch. Note, also that at the time of drafting the electricity licence condition 52 had yet to be modified; and  Correction of footnote to show the actual version and reference for the last time SMETS2 was notified under EC Technical Standards Directive |
| 4. Gas Smart Metering Equipment Technical Specifications | Correction at 4.5.2.2 bullet point xiv, replacing ‘increase’ with ‘increasing’ as agreed by CRP602 |
| 5. Electricity Smart Metering Equipment Technical Specifications | Changes at Section:  5.1 introducing Auxiliary Proportional Controller (APC); and correction deleting reference to ‘data’ requirements, as these are not present |
| 5. Part A - Single Element Electricity Metering Equipment | Changes at Section:  5.5.2.2 introducing the new collective term ‘Auxiliary Controller’;  5.5.11 clarification of use of [n] notation;  5.5.11.1 text to recognise the ZigBee Smart Energy limitations on instructions from ESME to HCALCS;  making precedence and default behaviour clear;  removed bullet point iv and replaced with ‘not used’ as statement incorrect – if Supply State is Disabled it cannot be expected that HCALCS could send a Command;  5.6.3.8 change of title for the Command from ‘Clear Auxiliary Controller Event Log’ to ‘Clear Auxiliary Controller Event Log’;  5.6.3.21 change of title of Command from ‘Request Control of HAN Connected Auxiliary Load Control Switch’ to ‘Request Control of HCALCS [n]’;  5.6.3.24 removed Section (Reset) as Reset Command now covered by new Set Command;  5.6.3.33 change of title for the Command from ‘Set HAN Connected Auxiliary Load Control Switch [n] State’ to ‘Set HCALCS [n] State’;  addition of text to make Auxiliary controller state readable remotely, constraining the effect of the Command to the time specified with it and including a reset option by way of specifying an end-date in the past;  5.6.4.1 change of title for the Command from ‘Control HAN Connected Auxiliary Load Control Switch’ to ‘Control HCALCS [n]’;  addition of text to clarify requirements for Command processing as per GBCS;  5.7.4.2 change in title of the term from ‘Auxiliary Load Control Switch Calendar’ to ‘Auxiliary Controller Calendar [INFO]’ – aligning to APC notation and allowing it to be displayed over the HAN;  use of new term ‘Auxiliary Controllers’ and increasing the number of Switching Table rules from 48 to 120;  5.7.4.3 change in title of the term from ‘Auxiliary Load Control Switch [n] Description [INFO]’ to ‘Auxiliary Controller [n] Description [INFO];  moved switch type to Operational data Section’;  5.7.5.6 change of the title of the term ‘Auxiliary Load Control Switch Event Log’ to ‘Auxiliary Load Control Controller Event Log’;  5.7.5.28 change text to ‘Controller’ rather than ‘Switch’;  5.7.5.37 new Section and term added – ‘Auxiliary Controller [n] State’. Being the state for all three Auxiliary Controllers (ALCS, APC and HCALCS) relevant to input and export levels;  ensuring this State applies to all Devices; and  5.7.5.38 new Section and term added ‘Auxiliary Controller [n] Type’. Type now included in Operational data Section since it cannot be remotely configured |
| 5. Part B - Twin Element Electricity Metering Equipment | No changes made |
| 5. Part C - Polyphase Electricity Metering Equipment | Change at Section 5.16: correction to Section referencing in third paragraph |
| 5. Part D - Auxiliary Load Control Switch | Changes to Sections:  5.20 added acronym ‘ALCS’ to existing text;  5.21 text to make precedence clear and also to make default behaviour explicit  5.21.1 Auxiliary Controller [n] State term now that in Part A;  5.22.1.1 text to make Auxiliary Controller State be readable remotely and also text to make default behaviour explicit;  5.22.2.1, 5.22.2.2 and 5.22.2.3 Sections removed and marked ‘Not used’;  5.22.2.4 new Section: ‘Set ALCS [n] State’ added;  5.23, 5.23.1 and 5.23.1.1 Sections removed and marked ‘Not used’; |
| 5. Part E - Boost Function | Changes to Sections:  5.24 addition of reference to Part F  5.25.1. text to make Auxiliary Controller State be readable remotely;  5.25.1.1 text to allow APC to set output to maximum level via Boost Function;  extending the period of use to eight hours and text to make precedence / default behaviour explicit;  5.25.1.2 text to Include the option to control an APC via the Boost Function;  5.25.3 text to allow control of APC via Boost Function;  extending the period of use to eight hours and text to make precedence / default behaviour explicit;  5.26.1 text to allow control of APC as opposed to ALCS, via Boost Function |
| 5. Part F – Auxiliary Proportional Control | New Section (Part F) for the requirements of APC at set times to control input and output level |
| 6. In Home Display Technical Specifications | No changes made |
| 7. Prepayment Interface Device Technical Specifications | No changes made |
| 8. HAN Connected Auxiliary Load Control Switch Technical Specifications | Changes to Section:  8.4.2.1 addition of SAPC to title and text to clarify that HCALCS can communicate with both ESME and SAPC over the HAN;  8.5, 8.5.1.1, 8.5.1.2, 8.5.1.4: addition of SAPC as well as ESME, as per above point;  8.5.1 from IRP591 clarifying the HCALCS Command processing including allowing for future dated Commands;  8.5.1.2 change to Command title as ‘Control HCALCS’ rather than ‘HAN Connected Auxiliary Load Control Switch’;  8.5.2 inclusion of ‘or SAPC’ to title;  8.6.2.1 inclusion of ‘or SAPC’ |
| 9. Standalone Auxiliary Proportional Controller Technical Specifications | New Section introducing Technical Specifications for SAPC, including Part G1 covering SAPC, Part G2 for the ALCS variant and G3 for the variant where a Boost Function is included |
| 10. Glossary | Added new definitions for:  ALCS [n] Setting Period, APC [n] Limit Period, APC [n] Setting Period, Auxiliary Controller, Auxiliary Proportional Controller (APC), Boost Period, Commercial Product Assurance Security Characteristic Standalone Auxiliary Proportional Controller, Critical Functionality, HAN Connected Auxiliary Load Control Switch (HCALCS), HCALCS [n] Setting Period, Home Area Network (HAN), Standalone Auxiliary Proportional Controller (SAPC)  Amended definitions for:  Day Profile, Special Day and Switching Table – to include Aux Controller instead of HCALCS;  Price – removing the ‘kWh’ from unit of gas and adding footnote;  Type 1 Device – to align to definition at SEC Section A; and  Type 2 Device – to align to definition in the GBCS |

SMETS2 Document Revision History

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| Version | Rev | Date of Issue | Change Summary |
| 2.0 | Final | 08/11/2016 | Version of SMETS2 Incorporated into the Smart Energy Code (SEC) for DCC Release 1.2 |
| 3.0 | Draft 4 | 30/05/2017 | Draft 4 baselined by TBDG 30 May 2017 |
| 3.0 | Final | 05/06/2018 | Designated in SEC 5 June 2018 – Superseded by v3.1 on 4 July 2019 |
| 3.1 | Draft 1 | 04/08/2017 | v3.1 Draft 1baselined by TBDG 4 August 2018 |
| 3.1 | Final | 08/11/2018 | Designated in SEC |
| 4.0 | Final | 08/11/2018 | Superseded by v4.1 |
| 4.1 | Final | 04/07/2018 | Superseded by v4.2 on 4 July 2019 |
| 4.2 | Final | 04/07/2019 | Updated incorporating modified emergency credit requirements and SECMP0045, designated by SECAS |
| 5.0 | Draft 1 | 02/08/2019 | Issue as part of consultation on Proportional Load Control – SMETS drafting |
| 5.0 | Draft 2 | 28/10/2019 | Revised draft version issued as part of consultation on GBCS and CHTS changes for SAPC (IRP612) |
| 5.0 | Draft 3 | 28/01/2020 | Revised draft version issued in response to GBCS and CHTS consultation. Agreed Baselined by TBDG |

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1. This Release note includes all changes made for the SMETS2 v5.0 including those consulted on 2 Aug 2019 and 25 October 2019. [↑](#footnote-ref-1)