**Smart Metering Implementation Programme**

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

**Version 3.0 Draft 5: Release Note**

**14 December 2017**

Release Note

This release note accompanies, but does not form part of SMETS2 3.0 Draft 5. It describes the principal changes and updates to SMETS2 V2.0.

***Summary of main changes***

The sections of SMETS listed below incorporate the principal changes and updates made to SMETS2 V2.0 that have been adopted through a number of resolution proposals following the BEIS Technical Specifications Issues Management Process[[1]](#footnote-1).

***Table of Section Changes***

The table below shows the Sections that have been updated in this version, as well as a summary of the change:

| **Section** | **Changes** |
| --- | --- |
| Various | There are a number of amendments in the following categories:   * changes to improve clarity of drafting; * changes to improve the consistent use of the Glossary Terms; * replacing ‘CESG’ with ‘NCSC’ as the correct name now of the UK Government's national technical authority for information assurance; and * grammatical and typographical corrections identified since the last published version.   Such amendments have been made to a number of sections and are not necessarily detailed further in this table.  There are also changes across Sections with the addition of functionality to allow for operation of GSME, IHDs, PPMIDs, HCALCS and Communications Hubs in Sub GHz Bands  The title page changed to “Smart Metering Equipment Technical Specifications 2 (SMETS2)”, with the Version remaining as: ‘V2.0 Draft 5’ |
| 3, 4.1, 5.1, 5.6.3.21, 6.1, 7.1, 8.1, 8.3 and 8.5 | Addressing inconsistent referencing of Licence conditions. There have been no changes to the conditions themselves, this is purely to ensure consistency in the Sections referencing the Licence between the various Specifications within SMETS, as shown by the list of affected Sections left |
| 3.0 | Section changes as follows:   * A addition of an explanatory paragraph on ‘version numbering’ * Update of footnote reference to the latest EU Notification under the Technical Standards and Regulations Directive (2015/1535/EU) of the European Parliament * Removed the sentence “This document has been brought into force by the Secretary of State on [ ] for the purposes of the relevant licence conditions”. As this now duplicates SEC Schedule 11 |
| 4.2.2 | Amended text to change the date specifying whether features are certifiable by ZigBee has changed from February 2016 to 31 July 2017 |
| 4.3 | Amended to make provision for Sub GHz Bands.  Addition of a requirement to send an Alert when the Supply is Locked due to Unauthorised Physical Access through the Secure Perimeter |
| 4.4.2 | Addition of requirements to support configuration of: logging events; sending Alerts; and sounding Alarms |
| 4.4.2.1 | Clarification added as to which Commands, from a PPMID, a GSME needs to be able to support |
| 4.4.5 | Clarifying that the precision of the GSME register value displayed does not have to be the same as that held internally in the data store |
| 4.4.6.3 | Addition of a requirement to monitor GSME Operational Integrity |
| 4.4.7.2 | Clarifications and revisions to the requirements in relation to debt being recovered in Prepayment Mode |
| 4.5.1 | Removed the requirement on the GSME to push its Constant Data |
| 4.5.2.2 and 4.5.3.3 | Correction of PTUT to UTRN to align to GBCS terminology |
| 4.5.2.6 | Addition of a requirement to send an Alert when gas flow rate exceeds the Uncontrolled Gas Flow Rate |
| 4.5.3.7 | Drafting changes to clarify the Arm Supply processing requirements |
| 4.5.3.19 | Clarification that ‘Emergency Credit activated and used’ must be reset when the Meter Balance is reset |
| 4.6.4.34 | Addition of requirement to log events.  New Section to support configuration of: logging events, sending Alerts and sounding Alarms |
| 5.3.2 | Amended text to change the date specifying whether features are certifiable by ZigBee and DLMS has changed to 31 July 2017 |
| 5.4 | Addition of a requirement to generate and send an Alert when the Supply is Locked due to Unauthorised Physical Access through the Secure Perimeter |
| 5.5.2 | Addition of requirement to log events.  Addition of requirements to support configuration of:   * logging events; * sending Alerts; and * sounding Alarms |
| 5.5.2.2 | Clarification added as to which Commands from a PPMID an ESME needs to be able to support, and the number of Type 1 Device links the ESME must be able to support |
| 5.5.4 | Changes to align the use of [PIN] across ESME variants and GSME.  Change clarifying that the precision of the Single Element ESME register value displayed does not have to be the same as that held internally in the data store |
| 5.5.6 | Modified text in this Section to address discrepancy in that if a prepayment customer runs out of credit during a non-disablement period AND is subject to a Load Limit Power Threshold, then it is possible for the prepayment customer to lose their supply, not due to lack of credit but due to exceeding the load limit. Text amended to reflect the actual policy intent |
| 5.5.7.2 and  5.11.2.2 | Clarifications and revisions to the requirements in relation to debt being recovered in Prepayment Mode when amounts to be collected are greater than those in Debt Registers |
| 5.5.8.2 and 5.11.3.2 | Addition of the requirement to be able to reset the Tariff Block Counter Matrix once per day |
| 5.5.9.9, 5.7.5.2.7, 5.11.4.8 and 5.13.2.7 | Addition of requirement to make Active Export, Reactive Import and Reactive Export profile data available over the HAN.  Also, corrected an anomaly that Profile Data marked as [INFO] was restricted to Active Energy Imported, causing possible implications for customers who have generation plant not being able to access exported and reactive energy through HAN Devices |
| 5.5.8,  5.5.11.1,  5.7.5.28,  5.11.3 and  5.21.1 | Removal of [INFO] from Randomised Offset |
| 5.5.13 | Addition of a requirement to monitor Operational Integrity |
| 5.6.2.2 and 5.6.3.3 | Correction of PTUT to UTRN to align to GBCS terminology |
| 5.6.3.7 | Drafting changes to clarify the Arm Supply processing requirements |
| 5.6.3.12 | Drafting changes to clarify the Enable Supply processing requirements |
| 5.6.3.29 | Clarification that ‘Emergency Credit activated and used’ must be reset when the Meter Balance is reset |
| 5.7.4.2 | The number of ALCS Calendar switching rules has been revised to 48 to align to GBCS |
| 5.7.4.45 | Addition of requirement to collect Standing Charge regardless of how Suspend Debt Disabled is configured |
| 5.7.4.51 | New section to support configuration of: logging events, sending Alerts and sounding Alarms.  Addition of requirement to log events |
| 5.9.2 | Amended text to change the date specifying whether features are certifiable by ZigBee and DLMS has changed to 31 July 2017 |
| 5.10 | Addition of a requirement to generate and send an Alert when the Supply is Locked due to Unauthorised Physical Access through the Secure Perimeter |
| 5.11.1 | Changes to align the use of [PIN] across ESME variants and GSME.  Also, clarifying that the precision of the Twin Element ESME register value displayed does not have to be the same as that held internally in the data store |
| 5.11.4.8 | Addition of requirement to make Active Export, Reactive Import and Reactive Export profile data available over the HAN |
| 5.13.2.7 | Addition of requirement to make Active Export, Reactive Import and Reactive Export profile data available over the HAN |
| 5.15.2 | Amended text to change the date specifying whether features are certifiable by ZigBee and DLMS has changed to 31 July 2017 |
| 5.16 | Addition of a requirement to generate and send an Alert when the Supply is Locked due to Unauthorised Physical Access through the Secure Perimeter |
| 5.22.1.1 | Correction of the event log the Command is to be recorded in to align to GBCS |
| 6.2.2 | Amended text to change the date specifying whether features are certifiable by ZigBee has changed to 31 July 2017 |
| 6.3 | Addition of requirement to support operation in Sub GHz Bands |
| 7.2.2 | Amended text to change the date specifying whether features are certifiable by ZigBee has changed to 31 July 2017 |
| 7.3 | Addition of requirement to support operation in Sub GHz Bands |
| 7.5.3.3 and 7.5.3.4 | Correction of PTUT to UTRN to align to GBCS terminology |
| 8.2.2 | Amended text to change the date specifying whether features are certifiable by ZigBee has changed to 31 July 2017 |
| 8.3 | Addition of requirement to support operation in Sub GHz Bands |
| 9: Glossary | Addition of definitions for: ‘Critical Event’, ‘Frequency Agility’, ‘NCSC’, ‘Smart Meter Operational Integrity’, ‘Sub GHz Bands’ and ‘UTRN Counter’.  Amended definition for: ‘ZigBee Smart Energy Profile (SEP)’.  Removal of definition for: ‘PTUT’ and ‘CESG’ |

Release Note: Table of Section Changes

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 1 | 17/08/2016 | Issued to TBDG for review prior to baselining |
| 3.0 | Draft 2 | 21/09/2016 | Following TBDG review first baselined v2.0 |
| 3.0 | Draft 3 | 13/01/2017 | Baselined by TBDG 31 January 2017 |
| 3.0 | Draft 4 | 30/05/2017 | Baselined by TBDG 30 May 2017 |
| 3.0 | Draft 5 | 14/12/2017 | Issued to the Authority (Ofgem), the SEC Panel, SEC Parties and other interested parties as part of Release 2 Consultation Letter prior to baselining and designation |

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Department for Business, Energy& Industrial Strategy

1 Victoria Street

London SW1H 0ET

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1. <https://decc.huddle.net/workspace/34269213/files/#/41125520> [↑](#footnote-ref-1)