**Smart Metering Implementation Programme**

**Great Britain Companion Specification (GBCS)**

**Version 3.0 Draft 1: Release Note**

**21 September 2017**

Release Note

This release note accompanies, but does not form part of GBCS V3.0 Draft 1. It describes the principal changes and updates to GBCS V2.1, and the recent revision history of GBCS.

***Summary of main changes***

The sections of GBCS listed incorporate the principal changes and updates made to GBCS V2.1 Draft 2 that have been adopted through a number of resolution proposals following the BEIS Technical Specifications Issues Management Process[[1]](#footnote-1).

Changes to the embedded Excel tables in GBCS V3.0 Draft 1 are indicated with green shading and reflect those cells which have changed since GBCS V2.1.

***Table of Section Changes***

The table below shows the Sections of GBCS V2.1 that have been updated in this version, as well as a summary of the change:

| **Section** | **Changes** |
| --- | --- |
| Documentation Alignment Section | No changes made |
| 1: Introduction – normative | No changes made  |
| 2: Structure of the GB Companion Specification (GBCS) | No changes made |
| 4: Security | No changes made |
| 5: Remote Party Message construction, protection and verification – informative | No changes made |
| 6: Message Categories  | No changes made  |
| 7: Message structure and DLMS COSEM / ZSE / ASN.1 requirements  | No changes made |
| 8: Encryption of Attributes in Remote Party Messages | No changes made |
| 9: Time Synchronisation and Future Dated Remote Party Messages  | No changes made |
| 10: ZSE Implementation | Changes to Section10.4.2.11:* Addressing the consequence of a contradiction within section 2.5.2.20 of the ZigBee Cluster Library specification. That contradiction meant that Devices would behave inconsistently if wildcards were used in the year field of either Season Start dates or Special Day Date, in either the Tariff Switching Table or the Non Disablement Calendar.

New Section 10.7.2 added: * Requiring that, when one or more Devices have been added to, or removed from, the CHF Device Log during a day, the CHF automatically generates a new Network Key and notifies all Devices in the CHF Device Log at that time, of the new Network Key, by way of unicast ZigBee messages

New Sections added at 10.8 (10.8.1, 10.8.2 and 10.8.3):* Adds explicit requirements to reflect existing CH behaviour in GBCS, in terms of Remote Party Command, Response and Alert routing, and so ensure that routing issues do not arise
 |
| 11: Downloading firmware images to Devices | No changes made |
| 12: Requirements for Certificates | No changes made |
| 13: Managing Security Credentials on Devices | Section 13.3.5.10:* For ‘Activate Firmware’ and ‘Updated Security Credentials’ Commands, modified the text with text stating the specific requirements by Device type, as a means of clarifying the requirements. This does not change the underlying intention.

Section 13.7.4.5.3:* Titles for tables c and e corrected: Table 13.7.4.5.3c to "joinMethodAndRole is methodAInitiator" and Table 13.7.4.5.3e to "joinMethodAndRole is methodC"
 |
| 14: Apply Prepayment Top Up to an ESME or GSME | No changes made |
| 15: Message Codes | No changes made |
| 16: Event / Alert Codes and related requirements | The Event and Alert Code Table 16.2 changes are indicated by the green shading in the amended cells in the embedded table. Those changes include:* Removed the references 4.5.3.20 and 5.6.3.32 from cell B13
* A new Event Code for the Set Clock event where CH time is outside of Supplier specified tolerance
 |
| 17: Remote Party Usage Rights | No changes made |
| 18: Message Templates | Table 18.2: new requirements and amended text resulting from changes to the Mapping Table have been factored in to the DLMS COSEM Message Templates |
| 19: Use Cases | Table 19.3: changes to the embedded Use Cases reflect changes in the Mapping Table |
| 20: Mapping Table | New requirements and amended text are indicated by green shading in the amended cells in the embedded table.A further description of the changes made to the Mapping Table since GBCS V2.1are included in the ‘Table of Mapping Table 20 Changes’ below |
| 21: Glossary | No changes made |
| 22: Annex 1 – Additional DLMS Class | No changes made |
| 23 and 24:  | No changes made |
| 25 and 26: Informative Annex 4 and 5 | No changes made |
| 27: Annex 6 | No changes made |
| 28: Annex 7 - Data Item Values to be set prior to installation of Devices | No changes made |

Release Note: Table of Section Changes

***Table of Mapping Table 20 Changes***

| **Mapping Table Reference** | **Errata** |
| --- | --- |
| SMETS required objects tab, new row | New row added for a new Use Case ‘CCS07’ |
| Use Case reference tab in cell AE3 | Modified the text in the ‘CCS01’ Use Case description |
| Use Case reference tab in cell AE4 | Modified the text in the ‘CCS02’ Use Case description |
| Use Case reference tab, new row | Addition of new Use Case ‘CCS07’ to allow that data to be read (in line with CHTS 4.5.1.7) |
| ZigBee Commands tab | No changes made. |

Release Note - Mapping Table 20 Changes

Document Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Rev | Date of Issue | Change Summary |
| 1.0 | Final | 08/11/2016 | Version of SMETS Incorporated into the Smart Energy Code (SEC) for DCC Release 1.2 |
| 1.1 | Final  | tbc[[2]](#footnote-2) | Modified to address TBDG RFC-059 a mismatch between the decimal and hexadecimal encoded values for OBIS codes. Resulting in changes in tables in Section 18.2.1.2 and 18.2.1.3. Version Incorporated into SEC |
| 2.0 | Draft 1 | 17/08/2016 | Issued to TBDG for review prior to baselining  |
| 2.0 | Draft 2 | 21/09/2016 | Baselined V2.0 Draft 2 |
| 2.0 | Draft 3 | 13/01/2017 | Version published / issued to TBDG for DCC Release 2 |
| 2.0 | Draft 4 | 31/01/2017 | Draft 3 plus IRP514 v0\_2 amendment.Baselined by TBDG 31 January 2017 |
| 2.0 | Draft 5 | 04/05/2017 | Version published / issued to TBDG and SEC Parties for consideration for revised DCC Release 2 |
| 2.0 | Draft 5  | 30/05/2017 | Draft 5 Baselined by TBDG 30 May 2017 |
| 2.0 | Draft 6  | tbc | Modified and baselined to align to change made to GBCS V1.1 |
| 2.1 | Draft 1 | 19/05/2017 | Version issued to TBDG and SEC Parties for consideration of revision for DCC Release 3, prior to baselining |
| 2.1 | Draft 2 | tbc | Modified and baselined to align to change made to GBSC V1.1  |
| 3.0 | Draft 1 | 21/09/2017 | Version issued to TBDG and SEC Parties for consideration of revision for DCC Release 4, prior to baselining |

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[www.gov.uk/beis](http://www.gov.uk/beis)

1. <https://decc.huddle.net/workspace/34269213/files/#/41125520>

 [↑](#footnote-ref-1)
2. At the time of issue of these notes, DCC had yet to confirm the release date pertaining to the change expressed in RFC-059 [↑](#footnote-ref-2)