**Smart Metering Implementation Programme**

**Great Britain Companion Specification (GBCS)**

**Version 3.2 (for Draft 2): Release Note**

**[June 2019 TBC]**

Release Note

This release note accompanies the GBCS V3.2[[1]](#footnote-1) designated on [June 2019 TBC]. It describes the principal changes and updates made to the GBCS v3.1 designated on 5 June 2018, and the recent revision history of GBCS.

***Summary of main changes***

GBCS v3.1 is updated to accommodate the changes agreed to added from IRP569, IRP595, IRP545, IRP557, IRP560, CRP585 and CRP602.

***Table of Section Changes***

The table table shows the Sections of GBCS v3.0 that have been updated and a summary of any change made.

| **Section** | **Changes** |
| --- | --- |
| Documentation Alignment Section | No changes made |
| 1: Introduction | No changes made |
| 2: Structure of the GB Companion Specification (GBCS) | No changes made |
| 3: Scope and Terminology | 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 | * At Section 7.2.10 in Table 7.2.10d the text is amended to recognise that GBCS does override ZigBee meanings in certain cases. * At Table 7.4 changes made to cells in the embedded table are shown green shaded in GBCS v3.2 Draft 2. Changes include:   + For five ESME only attributes / commands containing SMETS information, the SMETS reference were not in Table 7.4   + The cross reference against currency units in cell I527 is stated as ‘4.5.3’ but could more accurately be ‘CHTS 4.5.3 vii.’; and   + The cross reference for Get Last Message in cell I307 is noted as relating to the GSME Proxy Log for Supplier Message but is missing the CHTS reference to ‘CHTS 4.5.3 xxiv’ |
| 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 | * GBCS 3.0 introduced the requirement for the CHF to change the Network Key shortly after any Device has been added to or removed from the CHF Device Log. An additional Section 10.7.3 ‘Network Key related requirements’ is added to clarify Device behaviour related to such changing of Network Keys, in order to ensure consistency. * At Section 10.4.2.11 to emphasise the GBCS Table 7.4 requirements as to the population of the ZigBee *AccumulatedDebt* and *Credit Remaining* attributes the addition of ESME as well as GSME. Also, to clarify the equivalence of ZSEs ‘selected’ and SMETS’s ‘activated’ in relation to Emergency Credit. |
| 11: Downloading firmware images to Devices | No changes made |
| 12: Requirements for Certificates | No changes made |
| 13: Managing Security Credentials on Devices | No changes made |
| 14: Apply Prepayment Top Up to an ESME or GSME | At 14.3 the addition of a new Section 14.3.10 statring that EMSE and GSME shall apply the value of Top Ups as per SMETS |
| 15: Message Codes | No changes made |
| 16: Event / Alert Codes and related requirements | * Changes made to cells in the embedded Table 16.2 are shown green shaded in GBCS v3.2 Draft 2. Changes include:   + Making mandatory the generation of Alerts, and logging of Events, with Alert / Event Codes 0x81AA and 0x81AB, by ESME and GSME. |
| 17: Remote Party Usage Rights | No changes made |
| 18: Message Templates | Changes to Templates supporting changes to Mapping Table |
| 19: Use Cases | Changes to Use Cases supporting changes to Mapping Table |
| 20: Mapping Table | * Changes made to cells in the embedded table are shown green shaded in GBCS v3.2 Draft 2. Changes include:   + Changes to SRO Tab at Cell K7 to make clear that: the SMETS ‘Reset Meter Balance’ behaviour applies to the GSME Use Case to reset the prepayment Meter Balance (GCS40b Reset Prepayment Mode Meter Balance on the GSME) and to the ESME Use Case to reset the Meter Balance (ECS04b Reset Meter Balance on the ESME) ; and the value to which the Emergency Credit Balance is to be reset is equal to the Emergency Credit Limit.   + Changes to ZB Commands tab at cell I1187 to correct the explanatory text in PCS01 to align to that in GCS06.   + Amendment to explanatory text at SRO Tab cell BD1045   + Amendment to explanatory text at Use Case Ref Tab cell AE29 |
| 21: Glossary | No changes made |
| 22: Annex 1 – Additional DLMS Class | 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

Document Revision History

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| --- | --- | --- | --- |
| Version | Rev | Date of Issue | Change Summary |
| 1.0 | Final | 08/11/2016 | Version Incorporated into the Smart Energy Code (SEC) for DCC Release 1.2 |
| 1.1 | Final | 06/11/2017 | Modified to address TBDG RFC-059 and 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 | Final | 01/02/2018 | Version Incorporated into SEC for DCC Release 2 (was previously GBCS v2.0 Draft 7) |
| 2.1 | Final | 05/06/2018 | Updated Version modified to address TBDG RFC-066 incorporated into SEC for DCC Release 2 |
| 3.0 |  | 01/04/2018 | Version incorporated into SEC, but not activated in preparation for a future DCC Release beyond Release 2, as proposed by TBDG RFC-063  (was previously GBCS V3.0 Draft 1)  Superseded by V3.1 on 5/6/18 |
| 3.1 | Final | 05/06/2018 | Updated to reflect the same changes made as in V2.1. Incorporated into SEC, but not activated in preparation for future DCC Release  Superseded by V3.2 |
| 3.2 | Draft 1 | 17/04/2019 | Modified to address TBDG SMIP CR\_077 ‘GBCS Uplift’. Baselined on SECAS Developing SEC webpage |
| 3.2 | Final (Draft 2) | 15/05/2018 | Updated to reflect emergency credit requirements as part of TBDG SMIP CR\_085. To be incorporated into SEC for future DCC Release and as referred to in this Release Note. (note corrected a minor typo IRP569 was referred to wrongly as IRP469) |

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1. This Release note includes changes made in GBCS v3.2 Draft 2 [↑](#footnote-ref-1)