**SECMP0015 ‘GPF Timestamp for Reading Instantaneous Gas values’**

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**Annex B**

**Legal text – version 1.1**

About this document

This document contains the redlined changes to the SEC that would be required to deliver this Modification Proposal.

These changes have been drafted against SEC Version 6.22.

Schedule 8 ‘GB Companion Specification’ version 3.2

## Add the following to the end of Section 10.4.2.11:

‘For clarity, the GSME shall update *ReadingSnapshotTime* to the UTC time of the GSME’s clock whenever the GSME updates the *CurrentSummationDelivered* attribute. Where the GSME does not provide a *ReadingSnapshotTime* attribute value, the GPF shall set the value of its *ReadingSnapshotTime* attribute to be 0xFFFFFFFF (meaning invalid time in ZigBee), and shall record that the value was not provided by the GSME.’

## Add the green highlighted rows in the embedded document to Table 7.4:



## Add the underlined text to the following row in Table 7.2.7:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Yes | Length | 0x00 where no date / time is required in this Message  0x0C where a date / time field is required | 1 | Where date-time is not required for a Message, it shall be a 0 octet string as per the DLMS specification  Where date-time is required for a Message, it shall be a 12 octet string as per the DLMS specification. See ‘date-timestamp in response’ column, ‘Use Case reference’ tab in Mapping Table. |
| Yes | Value | Either empty or a 12 character octet-string containing the date-time stamp for this Response | 0 or 12 | If (1) this is a Response from a GPF in one of Use Cases GCS13a, GCS13b, GCS13c, GCS14 or GCS60a, and (2) the GPF has a valid value stored for the *ReadingSnapshotTime* reported by the GSME, then that date-time shall be used to construct the value in this field, with bit 2 of clock status being set to 0b1 to show ‘different clock base’, since the GSME’s clock is a different timing source than the GPF’s normal timing source (the CH Clock).  Otherwise, where a value is required by the Use Case, the field shall be populated using the date-time in the Device’s clock, and bit 2 set to 0b0 (since the time source is the Device’s Clock). |

## Amend embedded Table 19.3:

Make the changes to the embedded Use Case by removing references to GCS60 and introduce GCS60a as per the embedded document.

Note that this will cause the Use Case Pair “Read Meter Balance for Smart Meter” to be split up into two sections; this is because GCS60a requires a timestamp but ECS82 continues to not require a timestamp.



## Amend embedded Table 20:

Change the following cells on the worksheets indicated in the below table:

|  |  |  |  |
| --- | --- | --- | --- |
| **Worksheet** | **Cell** | **Action** | **New value** |
| Use Case reference | E122 | Clear content |  |
| Use Case reference | F122 | Clear content |  |
| Use Case reference | G122 | Clear content |  |
| Use Case reference | AM122 | Clear content |  |
| SMETS required objects | AL1022 | Set | GCS60a Read Meter Balance for GSME |
| SMETS required objects | AL1041 | Set | GCS60a Read Meter Balance for GSME |
| ZigBee Commands | E384 | Set | GCS60a |
| ZigBee Commands | E385 | Set | GCS60a |
| ZigBee Commands | E386 | Set | GCS60a |
| ZigBee Commands | E387 | Set | GCS60a |
| ZigBee Commands | E388 | Set | GCS60a |
| ZigBee Commands | E1527 | Set | GCS60a |
| ZigBee Commands | E1528 | Set | GCS60a |
| ZigBee Commands | E1529 | Set | GCS60a |
| ZigBee Commands | E1530 | Set | GCS60a |
| ZigBee Commands | E1531 | Set | GCS60a |

Add the highlighted green line 183 on worksheet “Use Case reference”



Schedule 9 ‘SME Technical Specification 2 V4.2’

## Add the following Section ‘4.6.5.22’ to require the GSME to maintain the additional Operational Data Item:

***4.6.5.21 Time Debt Registers [1 … 2]***

Two Debt Registers recording independent debts to be recovered over time when operating Time-based Debt Recovery in Prepayment Mode.

***4.6.5.22 Instantaneous Values Last Update Date and Time***

The date and time at which, according to GSME’s Clock, the consumption Register (4.6.5.4) was last updated.

Schedule 10 ‘CH Technical Specification V1.3’

## Add the following entry to the end of the bullet pointed list in Section 4.5.3:

xxxiii. Payment-based debt payments in the Billing Data Log; and

xxxiv. Instantaneous Values Last Update Date and Time

Appendix AD ‘DCC User Interface Specification V3.1’

## Amend the following to the table in Section 3.8.42 ‘Read Meter Balance’:

|  |  |  |
| --- | --- | --- |
| **GBCS Cross Reference** | Electricity | Gas |
| **GBCS v1.0 Message Code** | 0x0069 | 0x008D |
| **GBCS vm.n Message Code** | 0x012A |
| **GBCS v1.0 Use Case** | ECS82 | GCS60 |
| **GBCS vm.n Use Case** | GCS60a |
| **GBCS Use Case Name** | Read Meter Balance for ESME | Read Meter Balance for GSME |

Appendix AF ‘Message Mapping Catalogue V3.1’

## Add the following to Section 3 ‘Header Element of the MMC Output Formula’:

| **Data Item** | **Reference or description** | **Type** | **Mandatory** | **Valid Values** |
| --- | --- | --- | --- | --- |
| BusinessOriginatorID | As set out in GBCS, ‘Business Originator ID’ | ra:EUI  (see clause 2.4.1) | Yes | EUI-64 value |
| BusinessTargetID | As set out in GBCS, ‘Business Target ID’ | ra:EUI  (see clause 2.4.1) | Yes | EUI-64 value |
| OriginatorCounter | As set out in GBCS, ‘Originator Counter’ | xs:nonNegativeInteger | Yes | minInclusive = 0, maxInclusive = 18,446,744,073,709,551,615 |
| SupplementaryRemotePartyID | As set out in GBCS, ‘Supplementary Remote Party ID’ | ra:EUI  (see clause 2.4.1) | No | EUI-64 value |
| SupplementaryRemotePartyCounter | As set out in GBCS, ‘Supplementary Remote Party Counter’ | xs:nonNegativeInteger | No | minInclusive = 0, maxInclusive = 18,446,744,073,709,551,615 |
| SupplementaryOriginatorCounter | As set out in GBCS, ‘Supplementary Originator Counter’ | xs:nonNegativeInteger | No | minInclusive = 0, maxInclusive = 18,446,744,073,709,551,615 |
| GBCSHexadecimalMessageCode | As set out in GBCS, ‘Message Code’ | xs:hexBinary | Yes | See GBCS Section 20 mapping table. |
| ServiceReference | As set out in DUIS, ‘Service Reference’  Derived from Service Request | ra:ServiceReference | Yes for Service Responses; No for Device Alerts | See DUIS Service Request Matrix |
| ServiceReferenceVariant | As set out in DUIS, ‘Service Reference Variant’  Derived from Service Request | ra:ServiceReferenceVariant | Yes for Service Responses; No for Device Alerts | See DUIS Service Request Matrix |
| Timestamp | The time as sent by the Device, (UTC), and optional attributes to describe the source and reliability of that time. | Extension of xs:dateTime  (contains the optional attributes   1. ‘IsFromGSME’ of type xs:boolean 2. ‘ClockStatus’ of type xs:string   ) | No | UTC Date-Time, taken from the GBCS Grouping Header  IsFromGSME: true/false based on the source of the date-time, as defined in GBCS Table 7.2.7.  ClockStatus: Time Status as defined in GBCS Table 9.1.2. |

**Table 2 : MMC Output Format header data items**

## Add the following to Section 5.17.2.1 ‘Specific Header Data Items’:

|  |  |  |
| --- | --- | --- |
| **Data Item** | **Electricity Response** | **Gas Response** |
| GBCSHexadecimalMessageCode | 0x0027 | 0x0074 |
| GBCS Use Case  (for reference - not in header) | ECS17b | GCS13a |
| Timestamp | xs:dateTime | xs:dateTime, with attributes IsFromGSME and ClockStatus populated |

**Table 29 : Read Instantaneous Import Registers MMC Output Format Header data items**

## Add the following to Section 5.18.2.1 ‘Specific Header Data Items’:

|  |  |  |
| --- | --- | --- |
| **Data Item** | **Electricity Response** | **Gas Response** |
| GBCSHexadecimalMessageCode | 0x0029 | 0x00B6 |
| GBCS Use Case  (for reference - not in header) | ECS17d | GCS13c |
| Timestamp | xs:dateTime | xs:dateTime, with attributes IsFromGSME and ClockStatus populated |

**Table 35 : Read Instantaneous Import TOU Matrices MMC Output Format Header data items**

## Add the following to Section 5.20.2.1 ‘Specific Header Data Items’:

|  |  |
| --- | --- |
| **Data Item** | **Gas Response** |
| GBCSHexadecimalMessageCode | 0x00B8 |
| GBCS Use Case  (for reference - not in header) | GCS13b |
| Timestamp | xs:dateTime, with attributes IsFromGSME and ClockStatus populated |

**Table 44 : Read Instantaneous Import Block Counters MMC Output Format Header data items**

## Add the following to Section 5.22.2.1 ‘Specific Header Data Items’:

|  |  |  |
| --- | --- | --- |
| **Data Item** | **Electricity Response** | **Gas Response** |
| GBCSHexadecimalMessageCode | 0x002D | 0x0075 |
| GBCS Use Case  (for reference - not in header) | ECS19 | GCS14 |
| Timestamp | xs:dateTime | xs:dateTime, with attributes IsFromGSME and ClockStatus populated |

**Table 51 : Read Instantaneous Prepay Values MMC Output Format Header data items**

## Add the following to Section 5.42.2.1 ‘Specific Header Data Items’:

|  |  |  |  |
| --- | --- | --- | --- |
| **Data Item** | **Electricity Response** | **Gas Response** | |
| GBCSHexadecimalMessageCode | 0x0069 | 0x008D | 0x012A |
| GBCS Use Case  (for reference - not in header) | ECS82 | GCS60 | GCS60a |
| Timestamp | Not Present | Not Present | xs:dateTime, with optional attributes IsFromGSME and ClockStatus populated |

Please note that the two additional elements for the timestamp only apply to SMETS2 responses.