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Draft Legal Text

SECAS Contact:

Name:

Sasha Townsend

Number:

020 7191 1534

Email:

SEC.change@gemserv.com

SECMP00002:

Add new Command to reset Debt Registers

Summary

This Modification Proposal seeks to add a new Smart Metering Equipment Technical Specification (SMETS) Command to allow Users to reset any of the three debt registers on an Electricity Smart Metering Equipment (ESME) or Gas Smart Metering Equipment (GSME).

About this document

This document contains the draft SEC legal text that will deliver the intent of SECMP00002.

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1. Draft Legal Text

This section sets out the draft legal text changes for SECMP0002. These changes have been drafted against the Smart Energy Code (SEC) version 5.14¹.

Please note that SEC Schedule 8 contains embedded documents which are also being amended by this modification. These embedded documents are included below as they would be set out in SEC Schedule 8. To review the changes to the embedded documents, you can click on and open these files.

SEC Schedule 8 'Great Britain Companion Specification'

Add the rows with green shading in each of the tabs in the embedded document 'SECMP0002 Table 20', to the corresponding tab in GBZ Table 20:



SECMP0002 Table
20.xlsx

This adds the new Use Cases and corresponding GB Zigbee (GBZ) and Device Language Message Specification Companion Specification for Energy Metering (DLMS COSEM) Message Templates. The additions are as per the following embedded documents.

Resulting Use Cases and GBZ Message Templates:



SECMP0002 Use
Cases.html

¹Note that if a new version of the SEC is designated before the submission of the Final Modification Report to the Change Board or Authority, the drafting will be checked to make sure there are no consequential impacts. Our current understanding is that the specifications that SECMP0002 is amending are not expected to change as part of any forthcoming designations.



Resulting DLMS COSEM Message Templates:



SECMP0002 DLMS
Message Templates.f

SEC Schedule 9 'Smart Metering Equipment Technical Specifications'

Add the following 4 sections to SMETS, for the new Home Area Network (HAN) interface Commands:

4.5.3.24 Reset Payment Debt Register

A Command to reset the *Payment Debt Register*(4.6.5.13) to zero.

4.5.3.25 Reset Time Debt Registers [1..2]

Commands to independently reset each of the *Time Debt Registers [1 ... 2]*(4.6.5.21) to zero.

5.6.3.37 Reset Payment Debt Register

A Command to reset the *Payment Debt Register [INFO]*(5.7.5.23) to zero.

5.6.3.38 Reset Time Debt Registers [1..2]

Commands to independently reset each of the *Time Debt Registers [1 ... 2] [INFO]*(5.7.5.36) to zero.

SEC Schedule 11 'Technical Specification Applicability Tables'

Add a new row as below:

Table 1 SMETS and Relevant Versions of GBCS

SMETS Version	Installation Start Date	Installation End Date	Maintenance Start Date	Maintenance End Date	Relevant GBCS Version	Applicability Period Start Date	Applicability Period End Date
[X.X] ²	TBC ³	Not determined	TBC ⁴	Not determined	[TBC]	[TBC]	Not determined

² The SMETS Version will be the version that is implemented in the Release that SECMP0002 is to be implemented in.

³ The "Installation Start Date" will be the SECMP0002 implementation date, as approved by the Authority.

⁴ The "Maintenance Start Date" will be the same as the "Installation Start Date".

SEC Appendix E 'DCC User Interface Services Schedule'

Add a new row as below:

Service Reference	Service Reference Variant	Description	Eligible Users	Target Response Time	Non-Device Services	Notes
<u>2.4</u>	<u>2.4</u>	<u>Reset Debt</u>	<u>Import Supplier, Gas Supplier</u>	<u>30 seconds</u>		

SEC Appendix AD 'DCC User Interface Specification'

Add the following new row to Table 12 'Service Request Matrix' in Section 3.1.1:

Service Request Name	Service Reference	Service Reference Variant	Critical	Modes of Operation				Eligible User Roles
				On Demand	Future Dated Response Pattern	DCC Scheduled	Non-Device Request	
<u>Reset Debt</u>	<u>2.4</u>	<u>2.4</u>	<u>Yes</u>	<u>Yes</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>IS</u> <u>GS</u>

Add a new section to Section 3.8 'Service Request Definitions':

3.8.10A Reset Debt

3.8.10A.1 Service Description

Service Request Name	ResetDebt
Service Reference	2.4

Service Reference Variant	2.4
Eligible Users	Import Supplier (IS) Gas Supplier (GS)
Security Classification	Critical
BusinessTargetID - Device Type applicable to this request	Electricity Smart Meter(ESM) Gas Smart Meter (GSM)
Can be future dated?	No
On Demand?	Yes
Capable of being DCC Scheduled?	No
Command Variants applicable to this Request - (Only one populated)	For Service Request 4 - Transform For Signed Pre-Commands, choice of: 5 - Send (Critical) 6 - Return for local delivery (Critical) 7 - Send and Return for local delivery (Critical)
Common Header Data Items	See clause Error! Reference source not found.
Data Items Specific to this Service Request	See Specific Data Items Below
Possible responses from this Service Request	These are the possible responses applicable to this Service Request. Please see clause Error! Reference source not found. for more details on processing patterns <ul style="list-style-type: none"> • Response to Transform Request - PreCommand Format • Acknowledgement • Service Response (from Device) – GBCSPayload • Response to a Command for Local Delivery Request - LocalCommand Format Also see Response Section below for details specific to this request
Response Codes possible from this Service Request	See clause Error! Reference source not found. for Common Response Codes
Service Request Narrative	<ol style="list-style-type: none"> 1. For ESME or GSME at GBCS v3.0 or later, this Service Request will reset the Time Debt Register [1], the Time Debt Register [2] or the Payment Debt Register. 2. For ESME or GSME that support earlier versions of GBCS prior to v3.0, these registers can only be reset if the Meter Payment Mode is “Prepayment” by setting it to zero, as part of configuring debt via Service Request 2.3 Update Debt. See section 3.8.10. 3. The target ESME or GSME specified in this Service Request can have its Payment Mode, as defined in SMETS, set to “Prepayment Mode” or

	<p>to “Credit Mode” (although it will, in line with SMETS requirements, only affect any debt recovery when in “Prepayment Mode”).</p> <p>4. Debt can be managed on an ESME or GSME using either Time-based Debt Recovery and/or Payment-based Debt Recovery.</p> <p><u>Time Based Debt Recovery</u></p> <p>5. Time Debt Registers [1 ... 2] as defined in SMETS are two registers recording independent debts to be recovered over time when operating Time-based Debt Recovery on an ESME or GSME in Prepayment Mode.</p> <p><u>Payment-based Debt Recovery</u></p> <p>6. Payment Debt Register as defined by SMETS, records the Debt value to be recovered as a percentage of payment when using Payment-based Debt Recovery in Prepayment Mode.</p>	
GBCS Cross Reference	Electricity	Gas
GBCS v3.0 MessageCode	Time Debt Register 1 - 0x00E3 Time Debt Register 2 – 0x00E5 Payment Debt Register – 0x00E1	Time Debt Register 1 - 0x00E4 Time Debt Register 2 – 0x00E6 Payment Debt Register – 0x00E2
GBCS v3.0 Use Case	Time Debt Register 1 - ECS07b Time Debt Register 2 – ECS07c Payment Debt Register – ECS07a	Time Debt Register 1 - GCS04b Time Debt Register 2 – GCS04c Payment Debt Register – GCS04a
GBCS v3.0 Use Case Name	Time Debt Register 1 - Reset Time Debt Register 1 on ESME Time Debt Register 2 – Reset Time Debt Register 2 on ESME Payment Debt Register – Reset Payment Debt Register on ESME	Time Debt Register 1 - Reset Time Debt Register 1 on GSME Reset Time Debt Register 2 on GSME - Reset Time Debt Register 2 on GSME Payment Debt Register – Reset Payment Debt Register on GSME

3.8.10A.2 Specific Data Items for this Request

ResetDebt Definition

Data Item	Description / Valid Set	Type	Mandatory	Default	Units	Sensitivity
TimeDebtRegister1	Included if the Time Debt Register 1 is to be reset	sr:Reset	Reset Time Debt Register 1: Yes Otherwise: N/A	None	N/A	Non-Sensitive
TimeDebtRegister2	Included if the Time Debt Register 2 is to be reset	sr:Reset	Reset Time Debt Register 2:	None	N/A	Non-Sensitive

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			Yes Otherwise: N/A			
PaymentDebtRegister	Included if the Payment Debt Register is to be reset	sr:Reset	Reset Payment Debt Register: Yes Otherwise: N/A	None	N/A	Non-Sensitive

Table 113A: ResetDebt (sr:ResetDebt) data items

3.8.10A.3 Specific Validation for this Request

No specific validation is applied for this Request, see clause 3.2.5 for general validation applied to all Requests.

SEC Appendix AF 'Message Mapping Catalogue'

Add a new section to Section 5 'Service Response MMC Output Format definitions':

5.10A Reset Debt

5.10A.1 Service Description

Service Request Name	ResetDebt
Service Reference	2.4
Service Reference Variant	2.4

5.10A.2 MMC Output Format

The Service Response contains only status information, as set out in Section **Error! Reference source not found.** of this document. The xml type within the SMETSData element is ResetDebtRsp. The header data items appear as set out immediately below.

5.10A.2 Specific Header Data Items

Data Item	Electricity Response	Gas Response
GBCSHexadecimalMessageCode	00E3	00E4
GBCS Use Case Number	ECS07b	GCS04b

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(for information only - not in header)		
GBCS Use Case Name (for information only - not in header)	Reset Time Debt Register 1 on ESME	Reset Time Debt Register 1 on GSME
SupplementaryRemotePartyID	Not Present	Not Present
SupplementaryRemotePartyCounter	Not Present	Not Present
SupplementaryOriginatorCounter	Not Present	Not Present
Timestamp	Not Present	Not Present

Table 1A : Reset Debt – Time Debt Register 1 - MMC Output Format Header data items

Data Item	Electricity Response	Gas Response
GBCSHexadecimalMessageCode	00E5	00E6
GBCS Use Case Number (for information only - not in header)	ECS07c	GCS04c
GBCS Use Case Name (for information only - not in header)	Reset Time Debt Register 2 on ESME	Reset Time Debt Register 2 on GSME
SupplementaryRemotePartyID	Not Present	Not Present
SupplementaryRemotePartyCounter	Not Present	Not Present
SupplementaryOriginatorCounter	Not Present	Not Present
Timestamp	Not Present	Not Present

Table 22A : Reset Debt – Time Debt Register 2 - MMC Output Format Header data items

Data Item	Electricity Response	Gas Response
GBCSHexadecimalMessageCode	00E1	00E2
GBCS Use Case Number (for information only - not in header)	ECS07a	GCS04a
GBCS Use Case Name (for information only - not in header)	Reset Payment Debt Register on ESME	Reset Payment Debt Register on GSME
SupplementaryRemotePartyID	Not Present	Not Present
SupplementaryRemotePartyCounter	Not Present	Not Present
SupplementaryOriginatorCounter	Not Present	Not Present
Timestamp	Not Present	Not Present

Table 23A : Reset Debt – Payment Debt Register - MMC Output Format Header data items